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About the University

As the state's flagship university, The University of Alabama family has always focused on being the best. After all, we are The Capstone of Higher Education.

Founded in 1831 as the state's first public college, The University of Alabama is dedicated to excellence in teaching, research and service. We provide a creative, nurturing campus environment where our students can become the best individuals possible, learn from the best and brightest faculty and make a positive difference in the community, the state and the world. You'll like what you find here. Become part of The University of Alabama family.

Learn more about UA (p. 620)
About UA Graduate Education (p. 10)
College of Arts and Sciences (p. 49)
Manderson Graduate School of Business (p. 260)
College of Communication and Information Sciences (p. 341)
College of Community Health Sciences (p. 377)
College of Education (p. 380)
College of Engineering (p. 463)
College of Human Environmental Sciences (p. 540)
Capstone College of Nursing (p. 567)
School of Social Work (p. 583)
Interdisciplinary Programs (p. 603)

Equal Opportunity in Education and Employment

UA complies with applicable laws prohibiting discrimination, harassment, and retaliation, including but not limited to Titles VI and VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, Executive Order 11246, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans’ Adjustment Assistance Act, as amended by the Jobs for Veterans Act of 2002 (VEVRAA), the Uniformed Services Employment and Reemployment Rights Act of 1994 (USERRA), the Age Discrimination Act of 1975, the Americans with Disabilities Act (ADA) of 1990, the ADA Amendments Act of 2008, and the Genetic Information Nondiscrimination Act of 2008. Consistent with those laws and UA’s Sexual Misconduct, Harassment and other policies, UA prohibits discrimination on the basis of genetic or family medical history information, race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, pregnancy, age, disability, protected veteran status, or any other legally protected basis in admission or access to, or treatment of employment in, its programs and services. These prohibitions against discrimination apply to recruitment, application, selection, hiring, appointment, transfer, demotion, promotion, tenure, job assignments, classification, compensation, benefits, leaves of absence, sick leave or any other leaves, job training and development, tuition assistance, participation in UA-sponsored educational, social, and recreational programs, discharge, layoff, and/or any other term, condition or privilege of employment. Inquiries or concerns regarding UA’s Title IX or gender-related compliance may be directed to UA’s Title IX Coordinator, Ms. Beth Howard, 107 Burke Hall West, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5496, gbhoward@ua.edu. All other inquiries and concerns related to discrimination, harassment, or retaliation, except those regarding Section 1557 of the Affordable Care Act, may be directed to Dr. Gwendolyn Hood, University Compliance Officer and Director of the Office of Equal Opportunity Programs, 107 Burke Hall West, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5855 (Voice), 205-348-5573 (TDD), ghood@uaal.ua.edu.

Academic Policies

400-Level Courses for Master’s Credit

Courses numbered 400-499 are primarily for advanced undergraduate students. Under no circumstances will coursework below the 400 level be accepted for graduate credit. Read more. (p. 11)

Academic Misconduct

All acts of dishonesty in any work constitute academic misconduct. This includes, but is not limited to, cheating, plagiarism, fabrication of information, misrepresentation, and abetting any of the above. Read more. (p. 11)

Admission Criteria

Each application is considered in the context of other applications to the same area, with due consideration given to the availability of space, the need to maintain a pool of students of superior potential, and other goals of the program. Read more. (p. 11)

Application

Application may be made to only two programs at a time, and at no time may a student be enrolled in more than two programs. Read more. (p. 17)
Continuous Dissertation Registration for Doctoral Students
The student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Read more. (p. 19)

Course-Numbering System
All courses taken for graduate level credit must be taught by a member of the Graduate Faculty. Read more. (p. 19)

Degree Requirements
Each student must assume full responsibility for understanding both the general and special requirements of the division and department in which the student pursues his or her major work. Read more. (p. 20)

Joint, Cooperative and Shared Graduate Programs
The University of Alabama, the University of Alabama at Birmingham, and the University of Alabama in Huntsville have agreed to the establishment of several joint, cooperative, and shared graduate programs. Read more. (p. 28)

Records Maintenance and Disposition
The policy statement is available upon request in the Office of Academic Records and University Registrar and is published in the class schedule each fall semester. Read more. (p. 28)

Registration and Assistantships
Any graduate student using the assistance of a faculty member or any facility of The University of Alabama in relation to a degree program must be registered in an appropriate course reflecting that activity. Read more. (p. 28)

Scholastic Requirements
Many departments and programs produce manuals, procedures, and policy guides, graduate student handbooks, and other publications for their students and faculty in graduate programs. Read more. (p. 30)

Withdrawals and Leave of Absence
A graduate student who desires to withdraw from a course may do so, with the approval of the student’s advisor or department head, during the period allowed for dropping a class. Read more. (p. 31)

400-Level Courses for Master’s Credit
A maximum of six semester hours of 400-level course credit may be accepted for a master’s degree program, and only if a form for approval of 400-level coursework for graduate credit is completed and approved by the department and Graduate School prior to the semester in which the 400-level coursework will be taken. All of the conditions below must be met:
1. The department offering the courses also offers a graduate degree.
2. Approval is obtained from the student’s graduate advisor and the Graduate School prior to the semester in which the coursework is to be taken.
3. The course is taught by a member of the graduate faculty.
4. The course is not offered at the 500 level.

5. Graduate students in such courses do appropriate extra work and demonstrate a higher level of mastery.

Courses will differ for graduate students, typically in at least two of the four ways mentioned below.
1. Graduate students should submit additional papers that require more analysis, synthesis, evaluation and application of knowledge.
2. Graduate students should complete additional, higher-level readings.
3. Graduate students’ oral and written work should demonstrate greater depth of thought.
4. Graduate students should attend additional meetings with the professor to discuss course content in greater depth.

A downloadable version of the Form for Approval of 400-level Courses is available on the Graduate School’s website.

No 400-level credit (except the six hours accepted toward the master’s degree) may be accepted for doctoral degree programs. Under no circumstances will coursework below the 400 level be accepted for graduate credit. Master’s students may use no more than six hours of 400-level courses for graduate credit.

Academic Misconduct
All acts of dishonesty in any work constitute academic misconduct. This includes, but is not limited to, cheating, plagiarism, fabrication of information, misrepresentation and abetting any of the above. The Academic Misconduct Disciplinary Policy will be followed in the event that academic misconduct occurs.

Students should refer to the Provost page on Academic Misconduct.

Academic Criteria
The Graduate School makes admission decisions based on a composite of qualitative and quantitative information that include, but are not limited to, the following: the applicant’s statement of purpose, letters of recommendation, the academic standing of the student in program(s) in which the applicant has studied, relevant professional activities and achievements, admissions test scores, previous grades, and the recommendation of the faculty in the area to which the applicant is seeking admission. Each application is considered in the context of other applications to the same area, with due consideration given to the availability of space in the program at the time the student applies, the need to maintain a pool of students of superior potential, and other goals of the program. A department may set higher admission standards for doctoral students. Not every student whose credentials meet stated quantitative standards is admitted.

An applicant may apply to only two programs at a time and, upon acceptance to each, pursue only two programs at a time. Application to each program will be considered separately. The timeline for each program is based on the admission term for each, the degree completion requirements of each, and so forth. A student who pursues two programs must apply for candidacy and meet the degree requirements for each program. See Degree Requirements (p. 20) for additional information.

Persons are admitted to a specific program of study as specified on the application. A request for a change of program or continuation beyond an original purpose is viewed as a new application and is subject to current procedures and standards.
Admission to graduate studies at The University of Alabama is valid for 12 months after the requested entrance date. In some departments, students must seek pre-approval if they wish to change the entrance date initially requested on their applications. International students requesting a change in their entrance date should also be aware that their TOEFL, IELTS, or PTE scores must be less than two years old at the time of initial enrollment at the University. Should the TOEFL, IELTS, or PTE become more than two years old prior to enrollment, the student will be required to retest and submit an acceptable score prior to enrolling. If a student applies but does not complete any coursework within 12 months of the requested entrance date, a new application and an accompanying appropriate fee must be submitted. If a student enrolls for classes but then fails to register for three consecutive years, the student must reapply for admission.

The dean of the Graduate School is the only person authorized to waive any requirement, admit applicants to the Graduate School, or otherwise notify applicants of the disposition of their applications.

Additional requirements may be stated in the divisional and departmental sections of this catalog.

Admission requirements are subject to change without prior notice. Being admitted to a graduate program does not mean that each course required in the student’s program of study will be available each semester or in a specific semester.

A person holding a bachelor’s degree (or who is a senior) from a U.S. regionally accredited institution (or the foreign equivalent for an international applicant), is eligible for consideration for admission to the Graduate School of The University of Alabama.

Types of admission are described below.

**Regular Admission**

An applicant whose credentials meet both of the following minimum requirements may be considered for regular admission:

1. **GPA requirement**: The applicant must have an undergraduate GPA of 3.0 overall, 3.0 for the last 60 semester hours in a degree program, or 3.0 for a completed graduate degree program.

   **AND**

2. **Entrance exam score requirement**: The applicant must have a 300 on the GRE, a score at the 50th percentile on the MAT, or a 500 on the GMAT, if required by the department or degree program to which the applicant is seeking admission. (See the departmental sections of this Catalog or contact the Graduate School for specific information.) Admission test scores must be less than five years old. The purpose of an admission test score (i.e. GRE, MAT, GMAT) is to provide a measure of an applicant’s potential for success at the graduate level. If an applicant, through obtaining a graduate degree, has shown the ability to succeed at the graduate level, the completion of a graduate degree is used in place of the admission test score requirement as a measure of potential for success. The admission test score is also waived if the prospective department can demonstrate that the applicant has five or more years of experience in a field related to the graduate degree. Individual degree programs may require an admission test score even if the applicant has a master’s degree or the required work experience.

These are minimum requirements; divisions or departments may set higher standards.

**Exceptions to Admissions Policy**

Under exceptional circumstances, an applicant may be considered for admission if he or she meets **either** the GPA requirement for regular admission (GPA of 3.0) or the entrance exam score requirement as outlined above. If such an applicant is admitted, he or she will need to obtain permission to continue in the program, after the first 12 semester hours of graduate-level work have been completed. Permission to continue is earned by achieving a GPA of “B” or better (3.0) in the first 12 semester hours. If the 12 hours are completed in a term in which the total credits exceed 12, the evaluation is made on the basis of all graduate-level work completed at the end of that term of enrollment. Students admitted under this circumstance who do not meet the 3.0 requirement after their first 12 hours of graduate-level work will not receive permission to continue in their graduate program, and will be dropped from the program.

**Readmission**

Applicants for readmission who are in good standing should write to The University of Alabama, Graduate School, Box 870118, Tuscaloosa, AL 35487-0118 or email gradschool@ua.edu, at least six weeks in advance of the desired date of registration to request registration materials. Some departments may have earlier deadlines; applicants should contact their departments for specific deadlines. For students without proof of all required immunizations, the Student Health Center may access a fine, and registration may be blocked.

**Readmission of Service Members**

The University complies with laws concerning readmission of service members.

A student who has been admitted to or enrolled in The University of Alabama Graduate School may ask for a military leave to fulfill a U.S. military obligation. The student should notify the dean of the Graduate School of a call to military service and provide documentation. Upon return from military service, the student also should notify the dean of the Graduate School of the intent to return to graduate school and provide documentation of honorable discharge.

A student called to active military duty, unless dishonorably discharged, and eligible for readmission as defined by law, will receive an extension of the degree time limit equal to the term of eligible service, with a cap on the number of years in the extension. The extension is subject to the five-year limit as applicable to readmission provisions in the Higher Education Opportunity Act of 2008 (Section 484C of the HEA) and implementing regulations in 34 CFR Section 668.18.

**Admissions Examination Criteria**

Graduate admission examinations are required for applicants to most programs and must be less than five years old. Most departments require a score of 300 on the revised GRE test or a 1000 on the GRE test. Some departments may allow substitution of the Miller Analogies Test (MAT) for the GRE. Applicants to the Manderson Graduate School of Business are required to submit acceptable scores on the Graduate Management Admissions Test (GMAT) although some departments allow the use of the GRE. Applicants should consult the department descriptions in this catalog or contact departments directly for more specific information about admissions examination requirements.

The following departments have received approval to eliminate or modify criteria for graduate admissions test scores:
• Advertising and Public Relations (MA): No admissions test required for Accelerated Master’s Program applicants

• Art (studio art): No admissions test required for any applicant. GPA of 3.0 required for regular admission. NOTE: Portfolio or audition required for all applicants.

• Book Arts (MFA): No admissions test required

• Communication Studies (MA): No admissions test score is required if the applicant is
  1. an undergraduate Communication Studies major at The University of Alabama applying for admission into the University Scholars Program and
  2. has at least a 3.3 GPA overall with a GPA of at least 3.7 in the major.

• Creative Writing (MFA): Admission test recommended but not required. No minimum admission test score. GPA of 3.0 required for regular admission. Portfolio required for all applicants.

• Doctor of Nursing Practice (DNP): No admissions test scores required for post-MSN applicants. GPA of 3.0 is required. In lieu of test scores the applicant must provide evidence of active professional nurse licensure, advanced specialty certification where available, an interview with DNP faculty, and a writing sample outlining a scholarly project idea.

• Engineering: A student participating - or who has participated - in the Accelerated Master’s Program (AMP) at The University of Alabama is not required to provide an admission exam score. The GMAT is accepted in lieu of the GRE for admission to any College’s dual degree programs with the MBA if the applicant has a bachelor’s degree in engineering or computer science from an ABET/EAC or ABET/CAC accredited program with a GPA of at least 3.0. The LSAT is accepted in lieu of the GRE for admission to any College’s dual degree programs with the JD if the applicant has a bachelor’s degree in engineering or computer science from an ABET/EAC or ABET/CAC accredited program with a GPA of at least 3.0. No admission test score is required for applicants from the Navy Civil Engineering Corps (CEC) Graduate Program if the applicant has a bachelor’s degree in engineering from an ABET/EAC accredited program with a GPA of at least 3.0. No admission test score is required if the applicant participated in the Brazilian Scientific Mobility Program and completed their “Academic Training” at UA.

• Health Sciences, Human Nutrition, General Human Environmental Sciences (Consumer Science) (master’s programs): No admissions test required for regular admission if GPA is 3.0; admission with permission to continue requires a GPA of 2.5 and a minimum GRE score of 300 (revised GRE test) or 1000 (GRE general test).

• German (MA): No admissions test required for applications for the MA in German. GPA of 3.0 required for regular admission. NOTE: Writing sample required for all applicants.

• Marketing (MS): No admission test score required for Accelerated Master’s Program students

• Mathematics (MA): No admission test score required for Accelerated Master’s Program students

• Music: No admissions test required for any applicant. GPA of 3.0 required for regular admission, GPA of 2.5 required for admission with permission to continue. NOTE: Portfolio or audition required for all applicants.

• Nursing (MSN): No admissions test required for applications with a GPA of 3.0 or above.

• Physics (MS): No admissions test required for Accelerated Master’s Program applicants

• Social Work (MSW): No admission test required for regular admission if GPA is 3.0; admission with permission to continue requires a GPA of 2.5 and GRE of 300.

• Special Education (MA) Multiple Abilities Program: Graduates of the UA undergraduate Multiple Abilities Program with a minimum GPA of 3.0

• Theater: No admissions test required for any applicant. GPA of 3.0 required for regular admission. NOTE: Portfolio or audition required for all applicants.

Information concerning the GRE is available from the Educational Testing Service, Princeton, NJ 08540. The GMAT and MAT are given by the testing services of The University of Alabama and by most colleges and universities and may be taken by appointment. Applicants should plan well in advance so the results of the required examination will be available when needed to support an application for admission. Braille editions of both the GRE and MAT can be obtained from The University of Alabama, Testing and Data Management Services, Box 870108, Tuscaloosa, AL 35487-0108.

Interested persons with restrictions that prevent the use of our online application should contact The University of Alabama, Graduate School, Box 870118, Tuscaloosa, AL 35487-0118 or 1-877-UAGRADES; telephone 205-348-5921; email gradschool@ua.edu.

Other Types of Admission

Admission to Doctoral or EDS Programs from Master’s Programs in the Same Department at The University of Alabama

In participating departments, master’s students enrolled at The University of Alabama may apply for admission to doctoral or EdS programs in the same program by completing the Master’s to Doctoral program application. Departments determine if submission of a statement of purpose, a new test score, or a new transcript is required. Interested students should contact their departments to ask if they accept the simplified application and if there are any additional departmental requirements.

Expedited Admission for University of Alabama Seniors

Undergraduate seniors in participating departments enrolled at The University of Alabama who have completed at least 91 hours, have overall GPAs of 3.0 or better, are recommended by the faculty in their departments, and wish to apply for admission to graduate study in their current fields may be eligible for an expedited admissions process by completing the Bachelor’s to Master’s/Doctoral program application. Students should contact the department or program for details. Students who plan to seek scholarships or fellowships are strongly encouraged to follow the application procedures outlined under "Regular Admission."

Irregular Postgraduate (IPG) Admission

A person who applies but is not admitted to the Graduate School may, on the recommendation of the department or division concerned and with the approval of the dean of the Graduate School, seek admission as an irregular postgraduate (IPG) student, for the purpose of attempting to qualify for admission to the Graduate School. An applicant who is denied admission must not assume that this procedure is available to all; specific instructions will be given to those who are eligible.

Work taken as an irregular postgraduate cannot be counted as graduate credit at the time it is taken or at a later date. IPG students register as
undergraduates and receive undergraduate credit for all work completed. Upon completion of the required program of IPG studies (no less than 12 semester hours of advanced-level undergraduate credit taken from full-time graduate faculty of The University of Alabama), the student must request a review of the application for admission to the Graduate School within 12 months of the initial requested entrance date, or a new application accompanied by a nonrefundable application fee must be submitted.

The Accelerated Master’s Program (AMP)
The Accelerated Master’s Program is intended for gifted and highly motivated candidates for bachelor’s degrees at The University of Alabama whose objectives include degrees at the master’s or doctoral level. In participating AMP departments, with a related undergraduate and graduate program, qualified students apply to begin graduate study in their senior year. Although AMP students will typically complete the requirements for the bachelor’s degree prior to the graduate degree, such a program may lead to simultaneous completion of requirements for both graduate and bachelor’s degrees. New College students can participate in any of the programs listed below if they have the approval of both the director of New College and the Graduate Program director. A student may enroll in only one AMP program.

AMP students are classified as undergraduates until they complete the requirements for their undergraduate degrees, and therefore may not hold graduate assistantships until their classifications are changed to graduate status. At that time, AMP students will also become eligible for graduate fellowships and scholarships.

Any department that offers a graduate program may, with the approval of the dean of the Graduate School, participate in AMP. The following programs currently are approved to participate in AMP:

<table>
<thead>
<tr>
<th>Department</th>
<th>Degree</th>
<th>Minimum Overall GPA for admission</th>
<th>Length for completion (years);</th>
<th>Dual-counted hours</th>
<th>Admission test score waiver</th>
<th>Admission</th>
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<tr>
<td>Art and Art History</td>
<td>Art History MS</td>
<td>3.3</td>
<td>5</td>
<td>15</td>
<td>No</td>
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<td>Aerospace Engineering</td>
<td>Aerospace Engineering</td>
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<tr>
<td>Advertising and Public</td>
<td>MA</td>
<td>3.3</td>
<td>5</td>
<td>12</td>
<td>If major GPA &gt;= 3.75</td>
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<td>American Studies</td>
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<td>Chemistry</td>
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<td>Civil and Environmental</td>
<td>MS Civil Engineering</td>
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<tr>
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<tr>
<td>Communication</td>
<td>MA</td>
<td>If major GPA &gt;= 3.7</td>
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<td>Studies</td>
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<td>Computer Science</td>
<td>MS</td>
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<td>Curriculum and Instruction</td>
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<tr>
<td>Economics, Finance, and</td>
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<td>3.3</td>
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<td>15</td>
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<td>Geography</td>
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</tbody>
</table>
Nondegree admission is granted for attending special institutes and workshops, for meeting professional training requirements, for taking off-campus courses, or for special conditions approved by the dean of the Graduate School. Departments may set restrictions on the number or type of classes in which nondegree students may enroll, may limit nondegree enrollment to one semester only, or may prohibit nondegree admission. A maximum of 12 semester hours of graduate work may be taken as a nondegree student and later applied to the credit-hour requirements for a degree, if the student is later admitted to a degree program. Individuals enrolled as nondegree students cannot register for more than 12 hours without providing written verification to the Graduate School that they do not plan to pursue graduate degrees at the University. No more than 12 semester hours of this nondegree coursework can be evaluated for degree credit. Application of any nondegree credit toward an advanced degree will be contingent upon an evaluation made after the student has been admitted to the Graduate School to pursue a degree program. Responsibility rests with the student to observe the limitations imposed on credit hours, coursework, and transfer of credit. Procedures and online application for this type of admission are available at the Graduate School’s Website. Students who have had an application to a degree program formally rejected are not eligible for nondegree status.

If a student is not eligible for consideration for admission to a degree program, the grades the student earns as a nondegree student will not make the student admissible for the degree program.

Each student taking nondegree courses through the University’s programs offered at international sites must submit an official transcript (with an English translation) and a diploma showing a bachelor’s degree from a U.S. regionally accredited institution (or the equivalent for an international applicant).

Nondegree students are not permitted to hold graduate assistantships. Nondegree students may not be eligible for federal financial aid and loan programs. For more information, contact the Office of Student Financial Aid, Box 870162, Tuscaloosa, AL, 35487-0162; telephone 205-348-6756.

Admission of International Students

Applicants who are citizens of countries other than the United States are welcome at The University of Alabama. Highly qualified students from around the world have been extremely successful in our graduate programs, and the contributions made by our international students in the areas of teaching, research, and general cultural enrichment have been great. Standards for admission and financial aid are extremely competitive, ensuring academic excellence.

Interested students should visit our online application center to apply electronically. Applicants with restrictions that prevent the use of our online application should contact the Graduate School, Box 870118, Tuscaloosa, AL 35487-0118, U.S.A, email gradschool@ua.edu. The request should contain information on the student’s citizenship, formal academic preparation, English language ability, standardized test scores, financial situation, proposed major, and date of entry. Requests for application materials receive initial reviews from the Graduate School dean’s office.

The fall semester begins in August and is considered the beginning of the academic year, and international students are strongly advised to plan...
to begin their studies then. Many of our departments and programs will consider applications for the spring semester, which starts in January, but fewer openings for new students are available at that time.

The University of Alabama recognizes that, to be accurately evaluated, applications from international students require more time and more supporting information than do domestic applications. For this reason, international applicants applying from outside the U.S. are encouraged to have complete applications, with all supporting documents, at least 180 days before the beginning of the semester for which application is made. All applications must be complete at least 120 days before the beginning of the semester for which application is made. Some departments have earlier deadlines; applicants should contact the departments in which they are interested to obtain information about department deadlines and other requirements. Applications completed after the deadline will automatically be considered for the following semester. The student whose application is completed well in advance of our deadlines is more likely to be admitted and to receive admission and immigration materials in time to make travel arrangements.

Each international application must hold the equivalent of a U.S. four-year bachelor’s degree from an accredited institution to be eligible for graduate admission. While individual departments may have more stringent requirements, bachelor degrees from Bologna Accord-certified institutions are considered to meet this criterion.

A student whose first language is not English must submit an official score report for the Test of English as a Foreign Language (TOEFL), the International English Testing System (IELTS), or the Pearson Test of English (PTE). The minimum score for admission to a degree program or for nondegree admission is 550 on the paper-based TOEFL or 79 on the iBT. The minimum IELTS score for admission to a degree program or for non-degree admission is 6.5. The PTE minimum score for admission to a degree program or for non-degree admission is 59. TOEFL, IELTS, or PTE scores must be less than two years old at the time of intended initial enrollment at The University of Alabama. Should TOEFL, IELTS, or PTE scores become more than two years old prior to enrollment, the student will be required to retest and submit an acceptable score before enrolling. The TOEFL, IELTS, or PTE will not be required from any applicant who has earned a degree from an accredited U.S. college or university within the past three years. The Test of Spoken English (TSE) is recommended for international students who wish to be considered for teaching assistantships. For information on registering for the TOEFL, or TSE available worldwide, IELTS, and PTE visit the testing center websites or contact U.S. embassies, consulates, USIS offices, Institute of International Education offices, AMIDEAST offices, and other organizations concerned with international education.

The University of Alabama offers intensive English language instruction to prepare students for further academic study at colleges and universities in the United States. In addition, the University maintains (through the English Language Institute) the International Teaching Assistant Program (ITAP), a program that all graduate assistants with any teaching or instructional activities who are non-native speakers of English must successfully complete before they are allowed to teach. Students are recommended for ITAP by their departments. For information about these programs write to the Director, English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250, U.S.A. Admission to the English Language Institute does not constitute admission to a graduate program at The University of Alabama.

Students whose applications to the Graduate School are approved will receive housing and health-service information, a letter of admission, and an immigration document (usually Form I-20 or DS-2019). Upon arrival in Tuscaloosa, students should report to Capstone International Programs and Services in order to obtain registration materials and information on the special orientation session for international students that is held prior to the beginning of each semester.

Nonresident foreign students who are offered graduate assistantships are limited to a maximum .50 FTE (half-time) assistantship. Additional employment outside the University is not permitted.

Students are encouraged to direct any questions they may have concerning immigration, housing, or the health service to the Director, Office of International Student and Scholar Services, Box 870304, Tuscaloosa, AL 35487-0304, U.S.A. Questions concerning admission procedures should be directed to the Graduate School.

Requirements and deadlines for submitting applications are subject to change; applicants should review the specific instructions on the application forms for current requirements and deadlines.

**Conditional Language Admission for International Graduate Students**

An international graduate applicant to The University of Alabama may be considered for conditional language admission if he or she does not meet the minimum TOEFL score requirement of 550 on the paper-based TOEFL or 79 on the iBT, 6.5 on the IELTS, or 59 on the PTE and/or does not have an admission test score (e.g., GRE/GMAT/MAT). The applicant must meet all other admission criteria as stated for regular or conditional admission earlier in this Catalog, meet all financial and immigration requirements, and be recommended by the individual University of Alabama graduate department to receive conditional language admission. A student holding conditional language admission may not hold an internally funded graduate assistantship.

Students who have conditional language admission are accepted to the Graduate School but must attend full-time intensive English language instruction at the English Language Institute (ELI). If the student does not hold an admission test score, the admission test must be taken while the student is enrolled in ELI classes. A score that meets admission requirements for regular admission must be submitted to the Graduate School prior to enrolling full time in regular graduate classes. The student must complete the ELI's Intensive English Program with a minimum GPA of 3.0 in the advanced levels (levels 4, 5, and 6) or earn a score of at least 550 on the PBT, 79 on the iBT, 6.5 on the IELTS, or 59 on the PTE before or she will be allowed to enroll in graduate courses, hold teaching assistantships, or hold internally funded research assistantships.

Students who have conditional language admission are eligible to hold only externally funded research assistantships.

**NOTE:** In special circumstances, a student may initiate the following requests to his or her department chair. The student’s request and the specific course to be taken must be approved by the student’s department, advisor, course instructor, ELI, and the Graduate School:

1. If a student has a TOEFL score of at least 500 on the paper-based TOEFL PBT, 61 on the iBT, score of 61, an IELTS score of at least 6.0, PTE score of at least 52, or initially places in ELI level 5 or 6, then after official evaluation by ELI staff, he or she can be considered for approval to take one carefully selected graduate level course per semester for a maximum of two semesters while completing ELI, or

2. If student has enrolled in and completed ELI Level 4, 5, or 6 with a 3.0 GPA, he or she can be considered for approval to take one carefully selected graduate level course per semester for a maximum of two semesters while completing ELI.

3. If a student has a UA institutional TOEFL score of 500 and either has completed ELI Level 4, 5, or 6 with a 3.0 GPA or has placement into
ELI Level 5 or 6, he or she can be considered for approval to take one carefully selected graduate level course per semester for a maximum of two semesters while completing ELI.

When a student with conditional language admission begins enrollment in graduate courses, he or she must meet all other requirements for conditional admission, as in the Admission Criteria section of this Catalog.

International graduate applicants should inform the Graduate School that they wish to be considered for conditional language admission when they submit their graduate application forms.

**International Bridge Program**

According to current University of Alabama graduate policy, "each international applicant must hold the equivalent of a four-year bachelor's degree from an accredited institution to be eligible for graduate admission." The University of Alabama International Bridge Program is intended for the international graduate applicant who holds a three-year bachelor's degree from a country where that credential is not deemed equivalent to the four-year U.S. bachelor's degree. By completing a fourth year, or bridge year of undergraduate study at The University of Alabama, an international student from a recognized foreign institution with a three-year bachelor's degree will have the opportunity to enter graduate study without completing a separate four-year bachelor's degree. The student will complete a "bridge year" of University of Alabama undergraduate coursework and then begin the graduate degree program.

International applicants interested in the International Bridge Program should consult the list of participating departments that are approved to accept applications for the bridge program. If the intended major is listed as participating, then the international applicant will apply for the International Bridge Program following the same graduate application process as other international graduate applicants to the degree program. International applicants may apply electronically using the Graduate School’s website or the print application forms. International applicants meeting the Graduate School’s and department’s minimum GPA, GRE, and TOEFL requirements for regular admission to a graduate degree program and who receive the department’s recommendation will be considered for admission in the International Bridge Program. Students admitted into the International Bridge Program will hold a regular graduate admission for a degree program, but will first complete the bridge year of University of Alabama undergraduate coursework and then begin graduate study to complete their graduate degree program.

Each department that participates in the International Bridge Program will provide a written description and specific departmental requirements for their bridge students. Bridge year requirements include the following, at a minimum:

- A student in the International Bridge Program will be classified as an international bridge student while he or she completes the bridge year. The bridge year is defined as a 30 semester hour undergraduate curriculum designed to meet basic core curriculum requirements missing from the three-year international degree. A student's course load during the bridge year may not exceed a total of 15 hours per semester.

- Each graduate program participating in the bridge year program will provide a list of specific undergraduate courses required for their international bridge students. Each department’s program will include 6 undergraduate credits of specific courses in each of the following five general curriculum areas: 
  a. written English proficiency, 
  b. information technology or mathematics, 
  c. humanities and fine arts, 
  d. history and social-behavioral sciences, and (e) natural sciences.

- During the time the student is classified as an international bridge student, he or she will be eligible to hold only externally funded research assistantships, and departments will provide careful review of the student's course load and academic progress before granting assistantships. An international bridge student may not hold an internally funded graduate assistantship or fellowship.

- International bridge students must complete the bridge year and earn at least a 3.0 GPA for all coursework completed during the bridge year before progressing into the graduate degree program.

- All courses for the bridge program must be completed through The University of Alabama (no transfer credit). Courses completed as part of the student's three-year international degree may not be repeated for credit in the bridge program at the University.

- Upon successful completion of all bridge year coursework and other department requirements, the department will consider the student for approval to take coursework in the graduate degree program and for possible graduate assistantships and fellowships. The graduate degree will be awarded upon satisfactory completion of the graduate degree requirements.

**Admission of Faculty Members for Graduate Work**

The University normally does not permit members of its own faculty to earn advanced degrees from the University. A faculty member who wants an exception to this rule must present an extremely compelling case and must receive prior approval from

1. the dean of the Graduate School,
2. the dean of the division in which the faculty member holds appointment,
3. the dean of the division in which the faculty member wants to study, and
4. the executive vice president and provost.

A faculty member seeking an exception to the rule should begin by arranging an appointment with the dean of the Graduate School.

**Seniors at The University of Alabama Taking Graduate Credit**

A senior at The University of Alabama who has completed no fewer than 91 hours and has earned at least a 3.0 GPA overall may petition to take graduate courses toward a graduate career. Permission to take a particular course is granted based on approval by the instructor, the instructor's department chairperson, the dean of the student's division, and the graduate dean. The total course load for an undergraduate taking graduate courses should not exceed 15 hours a semester. A senior may accumulate no more than 9 hours of graduate credit. With the exception of seniors officially admitted to the University Scholars Program, graduate courses taken by a senior cannot also be applied to the undergraduate career.

**Application Required Materials for All Applicants**

Please apply online for graduate study at the Graduate School's website. Interested persons with restrictions that prevent the use of our online application or who have questions about applications should contact The University of Alabama, Graduate School, Box 870118, Tuscaloosa, AL 35487-0118; telephone 205-348-5921 or 1-877-UAGRADS; fax (205) 348-0400; or email gradschool@ua.edu.
All applicants, including U.S. citizens, permanent residents, and international applicants, must submit the following materials to the Graduate School using the online application:

- Applicant data sheet and statement of purpose
- One transcript (official or unofficial) for each U.S. or international institution of higher education (including community colleges) at which 15 or more credit hours have been completed. Transcripts are uploaded by the applicant during the application process. If the applicant is admitted, they will not be permitted to register for classes until the Graduate School receives official copies submitted directly by the issuing institution. Newly admitted students have several options regarding the process for submitting official transcripts:
  - Official copies sent directly from the institution (electronic or hard copy).
  - Official copies in a sealed envelope delivered via delivery service (UPS, FedEx, etc.).
  - Official copies in a sealed envelope delivered by the student.
- International students must also include individual mark sheets and diplomas. For additional requirement see our Country Specific Credential Requirements page. Documents not issued in English must be accompanied by a certified English translation.
- Admissions test scores less than five years old (if required by the department; see “Admissions Examination Criteria (p. 11)” for departments that do not require a test) mailed to the Graduate School directly by the testing service.
- The application fee is $65 for U.S. citizens and permanent residents and $80 for international applicants, payable online. Application fees are non-refundable.
- Three letters of recommendation. Recommendations may be substituted online by logging in to 'Manage Supporting Documents' or through postal mail. Complete information for the submission of letters of recommendation can be found at http://graduate.ua.edu/prospective-students/apply-now. These should be submitted directly to the department to which the applicant is applying (not to the Graduate School). Each applicant must have a letter of reference from at least one professor in
  a. his or her undergraduate major, or
  b. the proposed field of graduate study, if any courses have been taken in either area within the last five years
- Additional application materials (e.g., portfolios, writing samples, responses to essay questions, etc.) required by individual departments. Applicants should contact departments directly for more information and visit 'Manage Supporting Documents' for a list of documents that may currently be uploaded.

All of the above materials must be received by the Graduate School before an application will be considered. To ensure that no materials are missing, applicants should periodically check the status of their applications online or by telephoning the Graduate School.

Application may be made to only two programs at a time, and at no time may a student be enrolled in more than two programs. A person holding a bachelor’s degree from a U.S. regionally accredited institution (or the foreign equivalent for an international applicant) is eligible for consideration for admission to the Graduate School of The University of Alabama. Seniors who have completed at least 91 undergraduate credits at regionally accredited institutions are also eligible to apply. If a student applies but does not complete any coursework within 12 months of the requested entrance date, a new application and an accompanying appropriate fee must be submitted.

### Additional Materials for International Students

A student, whether an international or a permanent resident, whose first language is not English, must submit an official score report from one of the following proficiency examinations:

- **Test of English as a Foreign Language (TOEFL).** The minimum score for admission to a degree program or for non-degree admission is 550 on the paper-based TOEFL or 79 on the internet-based TOEFL (IBT).
- **International English Language Testing System (IELTS).** The minimum score for admission to a degree program or for non-degree admission is 6.5.
- **Pearson Test of English (PTE).** The minimum score of admission to a degree program or for non-degree admission is 59.

The TOEFL, IELTS, or PTE scores must be less than two years old at the time of the student’s intended enrollment at The University of Alabama. The TOEFL, IELTS, or PTE will not be required from any applicant who has earned a degree from an accredited U.S. college or university within the past three years. The Test of Spoken English (TSE) is recommended for international students who wish to be considered for teaching assistantships. Information on registering for the TOEFL or TSE, IELTS, and for the PTE is available worldwide on the web or at U.S. embassies, consulates, USIS offices, Institute of International Education offices, AMIDEAST offices, and other organizations concerned with international education.

International applicants must submit one certified copy in the native language along with certified precise word-for-word English translations of all transcripts, diplomas, and certificates of degree. To be acceptable, transcript and diploma copies must be certified by the issuing institution. Notary copies are not acceptable. Documents should be received in official sealed university envelopes.

### Application Deadlines

To ensure adequate time for review, applications must be completed at least six weeks before the desired date of registration. International applicants are encouraged to have completed applications (including all supporting materials) at least 6 to 8 months in advance of the desired term of enrollment. International applicants must have completed applications no later than four months prior to expected enrollment. However, many departments establish earlier deadlines for receipt of application materials. (Applicants should contact their proposed departments for deadline information.) In those cases, completed applications must be in the Graduate School six weeks prior to the departmental deadline. Requirements and deadlines for submitting applications are subject to change; applicants should review the specific instructions on the application forms for current requirements and deadlines.

### Alabama Residency Status

Questions regarding resident and nonresident status should be directed to the Office of Academic Records and University Registrar, Box 870134, Tuscaloosa, AL 35487-0134; telephone 205-348-1572. (Note. This is not the same as the "residency" requirement for master's, educational specialist, or doctoral degrees. Please refer to those degrees' respective sections of the Catalog for details.)
Immunizations

New students who were born after January 1957 are required to provide proof of immunization against measles, mumps, and rubella (MMR) and other diseases before being officially enrolled at The University of Alabama. For students without proof of all required immunizations, the Student Health Center may assess a fee, and registration may be blocked. Also, new students are encouraged to complete a medical history form, which may be obtained from The University of Alabama, Student Health Center, Box 870360, Tuscaloosa, AL 35487-0360.

Change of Major or Purpose

All students pursuing a higher degree level (i.e., MA to PhD) will be required to submit new applications. Students pursuing doctorates in the College of Education should consult the College of Education section of this catalog for additional requirements. Graduate courses taken by a senior cannot also be applied to the undergraduate career.

Application Fees

A nonrefundable application fee must accompany each new application for admission before it will be processed. Credit card payments may be made with online applications at the Graduate School’s website. After admission, no fee will be assessed for subsequent applications requesting a change of program area, change of degree objective within the program of study, or change of status from non-degree to a degree program. If a student applies but does not complete any coursework within 12 months of the requested entrance date, a new application and an accompanying appropriate fee must be submitted.

Number of Applications

Application may be made to up to two programs at a time. If a student applies to two programs, he or she must submit two separate and complete sets of application materials (applicant data sheet, statement of purpose, letters of recommendation, transcripts) and two application fees. Each set of application materials must clearly identify the program to which the applicant is applying.

Continuous Dissertation Registration for Doctoral Students

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research.

Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy and Plan of Study.

The only exception is for DMA students who complete a document rather than a dissertation and may register for one hour of document research during a semester but must maintain continuous enrollment. A PhD student must have completed a minimum of 24 hours of dissertation research credits upon completion of the dissertation. An EdD student must have completed a minimum of 12 dissertation research credits upon completion of the dissertation. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

To assist faculty and students in determining the appropriate registration for doctoral research, the following guidelines are recommended:

- **Three semester hours.** Little or no progress will be made on the dissertation, only minimal use of University facilities will be involved, and/or there will be only slight faculty contact with the student; the work and writing of the dissertation are complete and only final grammatical corrections and the oral examination on the dissertation remain to be accomplished.

- **Six semester hours.** The student will be devoting approximately one-half of a full-time academic load to the dissertation. Moderate progress on the dissertation is expected of the candidate, only limited use of University facilities will be involved, and/or faculty contact with the student will be limited.

- **Nine semester hours.** The student will be devoting approximately three-fourths of a full-time load to the dissertation. Substantial progress on the dissertation is expected of the student, there will be major use of University facilities, and/or considerable faculty contact with the candidate is anticipated.

- **Twelve semester hours.** The student will be working full-time on the dissertation. Extensive progress on the dissertation is expected, there will be considerable use of University facilities, and/or faculty contact with the student will be extensive.

Course-Numbering System

All courses taken for graduate-level credit must be taught by a member of the Graduate faculty.

Courses numbered 400-499 are primarily for advanced undergraduate students. Courses numbered 500–599 are primarily at the master’s level. Courses numbered 600–699 are primarily at the doctoral level.

As noted in the section on “400-Level Courses for Master’s Credit,” a maximum of six semester hours of 400-level course credit may be accepted for a master’s degree program if approval has been obtained from the department and the Graduate School in the semester prior to taking the 400-level coursework.

Cross-listed courses are those with numbers connected by a colon (e.g. EN 533 Practicum Tchg College English:EN 534 Practicum Tchg College English). Credit for cross-listed courses is given separately for each semester. In some cases, credit is given for the first semester separately, but not for the second semester unless the first semester has been completed previously.

Slash-listed courses (e.g. COM 415 African American Rhetoric/COM 515 African American Rhetoric) are courses for which credit is given separately for undergraduate versus graduate students. The syllabi for such courses are required to specify the higher quality and greater quantity of work that must be produced by graduate students to receive graduate credit. Such quality and quantity are described in this catalog’s section on “400-Level Courses for Master’s Credit.”
Unless otherwise indicated, all statements of numbers of hours included in the course descriptions refer to semester hours of credit. In the case of courses connected by a colon, the credit indicated is for each semester.

**Degree Requirements**

The Graduate School reserves the right to change any provision or requirement at any time in order to fulfill its educational mission and exercise its educational responsibility. Refer to the Graduate School catalog and department website for all master’s and doctoral degree program requirements and the academic forms needed for degree completion.

The general requirements for advanced degrees are set out under the tabs above. Special divisional (i.e., college and school) and departmental requirements are given in the sections dealing with the respective divisions and departments. Each student must assume full responsibility for understanding both the general and special requirements of the division and department in which the student pursues his or her major work.

**Master’s Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s
candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first
session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Educational Specialist Degrees
The Educational Specialist degree (EdS) is offered in some departments of the College of Education that offer doctoral degrees. Students interested in the EdS degree should contact the department involved regarding availability of the degree.

The EdS degree normally is granted at the end of the sixth year of collegiate study and falls in time between the master's degree and the doctorate, although it is not viewed as intermediate between the master's and doctoral degrees. In the College of Education, some EdS degrees lead to a teaching certification for P–12 education fields. In some teaching fields, the purpose of the degree is to prepare undergraduate-college teachers, especially those who will be employed in junior colleges, small private and state colleges, and the group of colleges labeled "developing" institutions. The primary goals of the EdS degree are teaching and acquiring professional proficiency.

Because the purposes of the EdS degree may differ from those of either the EdD or PhD, credit earned in an EdS program is not automatically transferable to a doctoral program. Instead, if a holder of an EdS degree enters a doctoral program at a later date, the doctoral advisory committee will decide how much of the credit earned in the EdS program will be counted toward the doctorate.

Program Requirements
The EdS degree requires a minimum of 30 semester hours of study beyond the master's degree. (Students completing an EdS program and also expecting to receive an Alabama Class AA certificate for service beyond the master's degree. Students completing an EdS program and also expecting to receive an Alabama Class AA certificate for service beyond the master's degree.) Generally, the following requirements will hold for the degree:

• If a student enters a program with a master's degree in the same field, a minimum of 12 additional semester hours in the teaching field must be taken as part of the 30-hour total. Some departments may require more than these minimums.

• Since one of the goals of the EdS degree is to prepare undergraduate-college teachers, certain courses in higher education may be necessary, if required by the major department. A faculty advisor in the program in higher education administration will advise students on the appropriate courses to complete this requirement.

• Candidates for the EdS degree will be required to complete all coursework at the 500 and 600 levels.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" grade on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit concerned, well in advance of the final semester and typically before or at the time of advancement to candidacy.

The greater of 9 semester hours or 25 percent of appropriate post-master's-degree credit, earned through a regionally accredited institution approved to offer graduate programs beyond the master's level in the field of study where the credits were earned, may be transferred to apply toward an EdS degree. To be considered for transfer, credit must have been completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded.

Previous and appropriate post-master's-degree credit earned at The University of Alabama before a student applies for admission to the EdS program can be applied toward the EdS degree, provided it meets the program requirements of the particular department and the time limitation stated above.

Please note that some departments allow fewer than 9 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience and so forth.

A student in his or her last semester of work toward the master's degree who does not need a full course load to complete the course requirements of his or her master's program may register for work toward the EdS degree, in the amount needed to complete full registration loads.
Residency Requirement

A student’s program at the EdS level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Time Limit

All requirements for the EdS degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision at the EdS level for a time limit extension beyond 6 years.

Plan of Study

A standard form for an EdS plan of study is not available at the Graduate School’s website, because each department or program participating in the EdS degree has established a framework of requirements for the degree that indicates the general structure of its program. At or before initial registration, each student develops a formal plan of study for the degree, designating all courses he or she plans to take in the program. In reaching decisions, the student should consult with the program director. The student will file a completed plan with the program director who, upon approving the plan, will distribute copies to the Graduate School and to the student, retaining one copy for departmental files.

A plan of study may be amended at any time using appropriate forms and following the procedure described above. Until formal approval of an amended plan of study is made, the original or current modification of the plan will be in effect.

Admission to Candidacy

As noted above, the EdS Plan of Study is available in the College of Education and must be approved by the Graduate School before the student can be admitted to candidacy for the EdS degree. Thus, it is best to complete the plan of study by the end of the first or second semester of coursework.

Each EdS student completes the Admission to Candidacy for the EdS Degree application form and submits it to the Graduate School.

Examinations

In addition to the regular course examinations, a final comprehensive examination is required. The examination may be written or oral or both, at the discretion of the major department. No candidate is eligible for the final examination until approved by the appropriate program director. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

The examination will be prepared and conducted by a committee of at least three members of the UA graduate faculty, including the program director in the major area of study and a designee (or two or more people from the major area of study, designated by the program director) and the program director (or a designee) from the minor field of study, if one has been included in a program. Committees will be appointed by the dean of the Graduate School on request of the major program director. Each candidate must be judged by the major department to have completed the examination(s) satisfactorily.

If a candidate receives failing marks in both the minor area of study and the professional education field, the candidate will be judged to have failed the examination. If a candidate fails either the minor examination or the professional education examination, the committee as a whole will reach a decision about the satisfactory or unsatisfactory nature of the candidate’s performance on the examination. If a candidate does not have a minor field, the committee members will meet to reach a decision in the event the student fails the professional education examination.

All written examinations will be kept on file by the program directors for one year following the date of the examination, and students will have the right to confer with their program directors regarding the strengths and weaknesses shown on the examinations.

Application for Graduation

Each candidate for an Educational Specialist degree submits the Application for Degree through myBama no later than the registration period of the semester or the first term of the summer session in which requirements for the degree are to be completed.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.
Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School's criteria for transfer of credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be
applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice.
Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the *University Academic Calendar)</td>
<td>0</td>
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</tbody>
</table>

*Notes:*
- If the dissertation is completed prior to the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the *University Academic Calendar)*, the final oral dissertation defense can be conducted at any time in the final semester.

- The dissertation committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

- All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

- The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

- The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.
Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results
of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Joint, Cooperative and Shared Graduate Programs
To use more effectively the educational resources of the state and to prevent excessive duplication of graduate programs, The University of Alabama, the University of Alabama at Birmingham, and the University of Alabama in Huntsville have agreed to the establishment of several joint, cooperative, and shared graduate programs. (These three terms are defined by the Alabama Commission on Higher Education). Inquiries regarding these types of programs available at The University of Alabama should be directed to specific departments and to the admissions staff of the Graduate School of The University of Alabama.

Records Maintenance and Disposition

Application Materials
For many years, The University of Alabama has subscribed to the ethical principles for confidentiality of records of the American Association of Collegiate Registrars and Admissions Officers. Following passage of the Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment), the University established policies and procedures for implementation of that legislation. The policy statement is available upon request in the Office of Academic Records and University Registrar and is published online at the University Registrar’s website.

All application materials and records, including academic records from other institutions, become the property of The University of Alabama and may not be returned to the applicant or forwarded to other institutions.

The admission credentials and application materials of applicants will be retained for 12 months following the requested entrance date, after which time reapplication must be made. This includes applicants who do not register for courses at the time for which they have been admitted, applicants who have been rejected, applicants who do not respond to requests for additional information, and applicants whose applications are not completed with respect to supporting credentials.

Transcripts and other Academic Records
Official transcripts are issued and sent by the Office of the University Registrar to recognized institutions and agencies that require such documents. Transcripts can be requested at the University Registrar’s website. The Graduate School maintains other academic records of graduate students during the course of their graduate study, and for a period of 5 years thereafter the last term of enrollment.

Registration and Assistantships
General Requirements
Any graduate student using the assistance of a faculty member or any facility of The University of Alabama in relation to a degree program must be registered in an appropriate course reflecting that activity. This includes such activities as coursework, thesis and dissertation advising and reading, comprehensive examinations, and other degree requirements. Registration in courses numbered 599 (Thesis Research), 699 (Dissertation Research), 598 (Non-Thesis Research), and 698 (Non-Dissertation Research) may be repeated.

Prerequisites
If the student’s undergraduate preparation in either the major or minor subject is considered inadequate, certain preliminary (undergraduate and/or graduate) courses will be prescribed by the department or school concerned. These courses become prerequisites and do not carry graduate credit. The required prerequisites must be taken, if possible, during the first semester of enrollment.

Plan of Study
The student’s plan of study is determined in consultation with the chair of the major department, the graduate director, or the chairperson of the graduate committee and is approved by that person and the dean of the Graduate School.

Course Loads
The normal course load for a fall or spring semester is 12 credit hours; the maximum course load for a semester is 15 credit hours. Full-time enrollment for graduate students is 9–15 hours per regular semester.

Students may register for a maximum of 6 semester hours in a summer term or 12 hours during an entire summer dual session. No more than 3 semester hours may be taken during the Interim session. Taking more than 12 semester hours in a summer dual term requires a petition from the department regarding the extraordinary circumstances for approval by the Graduate School. A student who is employed part-time is expected to take a reduced load. The course load of a fully employed student will be evaluated according to the individual graduate program. It is recommended that fully employed students should register in no more than one course plus thesis or dissertation research.

Failure to Register for Three Years
If a student fails to register for three consecutive years, the student must reapply for admission. If readmission is granted, previous credit earned may be out of date and therefore not applicable toward a degree. See sections titled “Time Limits” for each degree in this catalog.

Assistantships: Admission Status, Class Hours, and FTE Level
Students with regular or conditional admission status may hold graduate assistantships. A minimum graduate GPA of 3.0 must be
maintained while holding any assistantship, except during the first 12 graduate semester hours earned at UA. Students who have earned academic warning or are in non-degree status may not hold graduate assistantships of any kind.

A conditionally admitted student whose graduate GPA falls below 3.0 at any time during the conditional status will not be allowed to hold a graduate teaching assistantship until such time as the graduate GPA has increased to 3.0 or better. A student with provisional language admission status may hold only an assistantship that is externally funded through a contract or grant; he or she may not hold a permanently budgeted UA assistantship.

The FTE from all assistantships, plus any other on-campus employment, must be combined when determining FTE (Full-Time Equivalent) status.

Each graduate assistant must be a full-time graduate student. Full-time status for assistantships means 12 or more graduate semester hours of classes. However, the FTE level of the assistantship assignment is converted to equivalent credit hours and combined with actual class hours in order to meet the full-time requirement. A quarter-time assistantship (0.25 FTE) equates to 3 class hours and a half-time assistantship (0.50 FTE) equates to 6 class hours. This means that a student who has, for example, the typical 0.50 FTE assistantship needs to register for only 6 class hours in order to meet the full-time requirement (6 assistantship equivalent hours plus 6 actual class hours).

Overloads Involving Coursework Hours
The Graduate School must approve all overloads involving just courses when the number of course hours exceeds 15. Taking more than 15 semester hours in fall or spring semester requires a petition from the department regarding the extraordinary circumstances for approval by the Graduate School.

Overloads Involving Assistantship FTE Plus Coursework Hours
The Graduate School does not need to approve combined FTE + course hour loads that are within the table guidelines below.

The table below includes the Graduate Council’s maximum recommended combinations of FTE plus course hours, as modified by the University in 2013 in accordance with Health Care Reform Act requirements. Combinations of assistantship FTE in excess of 0.50 are prohibited.

<table>
<thead>
<tr>
<th>Combined FTE of All Assistantships</th>
<th>Recommended Range of Graduate Course Hours the Student is Taking;</th>
</tr>
</thead>
<tbody>
<tr>
<td>.25</td>
<td>9-15</td>
</tr>
<tr>
<td>.50</td>
<td>6-12</td>
</tr>
</tbody>
</table>

The Graduate School continues to urge caution when considering large course loads and will continue to monitor overloads even though prior approval is not needed. We especially monitor whether academic warnings and suspensions increase and, if they do, we track the student’s and department’s overload history for signs of a correlation. We hope and expect that student loads will be designed intelligently to provide meaningful yet not burdensome GTA and GRA experiences, while allowing students to move efficiently through their degree programs.

Caution also is urged when considering an underload, i.e., course hours below the recommended minimum for a particular FTE level in the previous table. Underloads risk the student’s not making adequate progress toward degree completion. Under-loads typically occur only in the final semester and only to avoid taking needless extra course hours to meet the minimum number of hours normally expected for a particular FTE level.

For fall and spring semesters, a graduate student must be enrolled in classes to hold an assistantship. For Interim and/or summer, it is not required that a graduate student be enrolled in classes to hold an assistantship.

Please note that full-time status here is not the same as that required for other registration and financial situations. For example, fellowships, financial aid regulations, resident visa rules, the UA System Cooperative Exchange Program, INS and IRS regulations, and other academic policies use different status definitions with regard to full-time. For more information, please refer to the department(s) administering these other programs.

Part-Time Temporary Instructors
A graduate student employed as a part-time temporary instructor (PTTI) to teach a credit-bearing course must meet the SACS 18-hour requirement. Such PTTIs do not receive tuition waivers, must pay taxes on the income they earn as PTTIs, and must comply with Personnel Policies for Student Employees of The University of Alabama. These policies may be obtained by contacting the Human Resources Service Center or calling 205-348-7732.

Class Attendance
Graduate students are subject to the same rules regarding class attendance, the performance of assigned tasks, and course examinations as undergraduate students. Since graduate work presupposes specialization and thorough investigation, students will not be permitted to overload themselves with courses.

Continuous Registration for Doctoral Students
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research.

Summer enrollment for 699 Dissertation Research is required if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy and Plan of Study.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Noncredit Experiences for Graduate Credit
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.
Satisfactory Academic Progress Requirements for Federal Financial Aid Recipients

All students at The University of Alabama who receive federal financial aid must make satisfactory academic progress toward completion of their degrees within a reasonable period of time. Satisfactory academic progress criteria may be obtained by contacting the Office of Student Financial Aid at 106 Student Services Center or calling 205-348-6756.

Scholastic Requirements

Many departments and programs produce manuals, procedures and policy guides, graduate student handbooks, and other publications for their students and faculty in graduate programs. These statements are designed to provide detailed and useful information; however, they are not statements of official policy of The University of Alabama. In all matters, the graduate catalog of The University of Alabama contains official policies as passed by the graduate faculty’s Graduate Council and shall supersede departmental, program, or college publications.

Degree requirements and academic performance standards outlined in this section are the minimum required. Satisfying these general requirements and standards does not imply that all degree and program requirements have been met. Many departments, colleges, and schools establish additional requirements for their students. Accordingly, students may be dismissed from their programs for failure to meet departmental, college, or school standards. Such requirements are included in individual program descriptions in this catalog and/or in departmental and program manuals or policy statements. These special requirements shall not be considered in conflict with this catalog and shall have the same force as this catalog. Departmental suspension (dismission) from a degree program also results in suspension from the Graduate School.

Grades and Grade Points

Graduate course grades and values appear in the table below. Graduate courses do not receive plus or minus grades.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>N</td>
<td>No Grade Reported</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>DO</td>
<td>Dropped Out</td>
</tr>
<tr>
<td>NA</td>
<td>Never Attended</td>
</tr>
<tr>
<td>NG</td>
<td>Non-Graded Class</td>
</tr>
</tbody>
</table>

Grade Point Average (GPA)

Each student must have an overall graduate grade point average (GPA) of 3.0 or better for all graduate courses undertaken at The University of Alabama. Grades below “C” count in computing the GPA but do not carry credit toward a degree.

Grade point averages are computed on the following grades: “A,” “B,” “C,” “D,” “F,” “N” and “I.” Grades of “P,” “W,” “NC,” and “NG” do not count toward the GPA. In computing the graduate GPA, an “I” or “N” counts as an “F” until replaced by the earned grade.

Transfer credit

Courses completed at other postsecondary institutions and accepted for UA graduate credit are given a grade of “P” and are not calculated in the overall graduate GPA.

Repeating a course

Regular courses (courses other than IDGR assistantship, thesis research, dissertation research, etc.) typically may not be repeated for graduate credit; this includes courses initially taken on an audit basis. However, a regular course that is required in a student’s curriculum in which a “D” or “F” is earned may be repeated for credit, upon the recommendation of the major department or program area and with the approval of the Graduate School. If the student passes the course with a “C” or better, both grades contribute to the computation of the GPA but only one may be used toward a degree.

Federal regulations limit the number of times a student may repeat a course and receive financial aid for that course. Questions about these regulations should be addressed to the Student Financial Aid Office.

Academic Standing

A graduate student must have a cumulative GPA of 3.0 or better on all graduate work undertaken at The University of Alabama to be in good academic standing.

Conditional Admission

A student conditionally admitted to the Graduate School who has a cumulative graduate GPA of 3.0 or better after undertaking 12 semester hours of graduate coursework at The University of Alabama and satisfies any other admission conditions specified by the department or the Graduate School, will have earned good academic standing.

Failure to do so will result in Academic Suspension (dismission) from the Graduate School. If the 12 hours are completed in a term in which the total credits exceed 12, the evaluation is made on the basis of all graduate-level work completed at the end of that term of enrollment.

Unconditional Admission

A graduate student with good academic standing whose GPA drops below 3.0 at any time after earning 12 semester hours will have earned Academic Warning.

Students who have earned academic warning or are in non-degree status may not hold graduate assistantships.

“I” and “N” grades

All “I” and “N” grades must be removed within the first four weeks of the next term of enrollment if the overall GPA drops below a 3.0 as a result of the “I” or “N” grade(s).

Conditionally admitted students who fail to bring their overall GPA up to a 3.0 or better by removing the “I” or “N” within the four weeks will earn Academic Suspension (dismission) from the Graduate School.

Graduate Students with good academic standing who fail to bring their overall GPA back up to 3.0 or better by removing the “I” or “N” grade(s) within the first four weeks of the next term of enrollment will earn Academic Warning.

Academic Warning

A student placed on Academic Warning has the next 12 hours of graduate work to raise the overall graduate GPA to 3.0 or better. The overall
graduate GPA after the next 12 hours following academic warning must be at least 3.0 to avoid Academic Suspension (dismissal) from the Graduate School.

A department may dismiss a student from a degree program if there is unsatisfactory academic or other progress toward completion of the degree. As noted above, such departmental dismissal also results in suspension from the Graduate School. For additional details see Degree Requirements (p. 20) in this Catalog. Students who are suspended may not attend class or enroll in any form of distance learning courses.

Students are encouraged to use the time of the suspension in ways that assist their academic progress. Students may study in order to finish courses in which they have earned incomplete ("I") or no grade ("N") and may work with faculty members in this process. Students also may address other non-academic problems that have impeded their progress.

Readmission

A person seeking readmission to the Graduate School to pursue a program of study different from the one from which the person was suspended can initiate consideration for readmission by completing an application for admission in the Graduate School and communicating with the academic unit of the new program. The graduate faculty of the new academic unit will consider the request for readmission upon receipt of the new application, will identify in a written request to the dean of the Graduate School the compelling reasons for readmission to the Graduate School, and will state the conditions required of the student upon readmission if readmission is granted by the dean of the Graduate School. If readmission is granted, specific conditions of the readmission will be stipulated in the readmission letter to the student.

Reinstatement

A person seeking reinstatement to the same degree program after being suspended from the Graduate School can initiate consideration for reinstatement by communicating with the academic department or program from which the person was dismissed. The graduate faculty of the academic unit will consider the request for reinstatement and, if the faculty request reinstatement, they will identify in a written request to the dean of the Graduate School the compelling reasons for reinstatement to the Graduate School, and will state the conditions required of the student upon reinstatement if reinstatement is granted by the dean of the Graduate School. Students readmitted or reinstated to the Graduate School following suspension, may not hold a graduate assistantship until all conditions have been met for the readmission or reinstatement.

Clinical Components and Dismissal

In graduate programs that include clinical components, practicum experiences, internships, or other similar program requirements, each student's effectiveness will be given a broad-based evaluation by faculty and supervisors. Final decisions will be based on factors such as course grades, demonstrated clinical competence, personality factors, and relevant test scores. Many programs establish additional academic and/or professional requirements for their students. Failure to meet program requirements for academic progress and/or clinical components may result in the student's being dismissed from the program. Dismissal from a degree program also results in suspension (dismissal) from the Graduate School.

Graduation Requirements

Grade Point Average (GPA)

Each student must have an overall graduate GPA of 3.0 or better for all graduate courses undertaken at The University of Alabama. Grades below "C" are counted in computing scholastic averages, but they do not carry credit toward a degree.

Seventy-five Percent Rule

At least 75 percent of the hours taken must have been completed with grades of "A" or "B" at The University of Alabama. In applying this 75 percent rule, a maximum of 6 hours of thesis research may be counted, if appropriate. In other words, a student may only have earned a "C" grade in 25 percent of the hours taken for the degree.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, and only if a form for approval of 400-level coursework for graduate credit is completed and approved by the department and Graduate School prior to the semester in which the 400-level coursework will be taken. All of the conditions below must be met:

No 400-level credit (except the 6 hours accepted toward the master’s degree) may be accepted for doctoral degree programs. Under no circumstances will coursework below the 400 level be accepted for graduate credit. Master's students may use no more than 6 hours of 400-level courses for graduate credit.

For more information, please see the 400 Level Courses for Master's Credit (p. 11) in the Academic Policies section of the catalog.

Pass/Fail Courses

A maximum of 20 percent of a graduate student's required course credit may be taken on a “pass/fail” basis. Each graduate level course is either “letter grade” or “pass/fail” in the system at the time the student registers for the course. Graduate students are not permitted to change a course registration from “letter grade” to “pass/fail” or vice versa. Departments may request a change in how a course is graded for future semesters, through the submission of a course change request in the online Course Inventory Management (CourseLeaf) system.

Withdrawals and Leave of Absence

Withdrawal from a Course

A graduate student who desires to withdraw from a course may do so, with the approval of the student’s advisor or department head, during the period allowed for dropping a class. It is the student’s responsibility to review the UA Academic Calendar for the specific date by which one may drop a course.

No notation of courses attempted will be made on the permanent record of a student who withdraws from the University by the last day to add classes in a particular semester. After that, the withdrawal from a course will be noted on the student’s permanent record. It is the student’s responsibility to consult the Academic Calendar for the specific date by which one may withdraw without receiving a grade notation. From the end of that period until the end of the tenth week of a regular semester or the equivalent in a five-week summer session or three-week Interim session, a student may withdraw from a course, and a grade of "W" will be assigned. Graduate students are not permitted to drop a course after the tenth week.
In extraordinary circumstances beyond the student’s control, a student may petition the department chair to drop a course after the tenth week of class. If the department chair agrees that there are extraordinary circumstances and supports the petition, it is forwarded to the college dean. If the college dean supports the petition, it is sent to the Graduate School for approval. After the tenth week, the student’s academic status at the time of the withdrawal will be noted on the record (“W” for courses passing, “F” for courses failing).

Withdrawal from a course may affect several elements linked to registration and class loads, including (but not limited to) graduate fellowships, assistantships, tuition awards, financial aid, withholding taxes, etc. Before dropping a course, the student should contact all aspects of enrollment that may be affected.

Withdrawal from All Courses (Withdrawal from the University)

A graduate student may withdraw from the University (i.e., withdraw from all courses in the semester), either for non-medical or medical reasons, as long as this is done prior to the last day of classes. The first thing a student considering withdrawal should do is to consult with his or her academic advisor.

It is the student’s responsibility to initiate a withdrawal through myBama and provide the information necessary to complete the withdrawal process. Academic Bankruptcy (described in the Undergraduate Catalog) is not available to graduate students.

Withdrawal from the University requires approval from the Office of the University Registrar (206 Student Services Center) and dean of the Graduate School.

Please visit https://studentaccounts.ua.edu/withdrawal-from-the-university/ for more information about the financial effects of withdrawing, including information on how federal financial aid, loans, and scholarships may be affected.

Leave of Absence

Under compelling circumstances beyond the student’s control, a graduate student may request that the department petition the Graduate School with the rationale for granting a leave of absence. If granted by the Graduate School, a leave of absence will cover one or more upcoming semesters rather than any prior semester(s). A leave of absence is not a method of avoiding continuous registration requirements, and it does not lengthen the time limit. When a student returns from a leave of absence, the Graduate School must be notified and will work with the department and student to determine the number of semesters remaining on the time limit and the degree requirements that remain.

Military Leave

The University complies with laws concerning readmission of service members.

A student who has been admitted to or enrolled in The University of Alabama Graduate School may ask for a military leave to fulfill a U.S. military obligation. The student should notify the dean of the Graduate School of a call to military service and provide documentation. Upon return from military service, the student also should notify the dean of the Graduate School of the intent to return to graduate school and provide documentation of honorable discharge.

A student called to active military duty, unless dishonorably discharged, and eligible for readmission as defined by law, will receive an extension of the degree time limit equal to the term of eligible service, with a cap on the number of years in the extension. The extension is subject to the 5-year limit as applicable to readmission provisions in the Higher Education Opportunity Act of 2008 (Section 484C of the HEA) and implementing regulations in 34 CFR Section 668.18.

Medical Withdrawal and Return to Campus

Policy

The Medical Withdrawal and Return to Campus policy of The University of Alabama establishes procedures to follow when a student suffers from a physical, emotional, or psychological condition that significantly impairs the student’s ability to function successfully or safely as a student. The policy is primarily administered by the University’s Student Health Center (SHC) according to the procedures described below.

Eligibility

Medical Withdrawals are voluntary. Eligibility for Medical Withdrawal is limited to students who have not taken a final exam or otherwise completed coursework for a final grade. The SHC shall request documentation from the dean of the division in which the student is enrolled to verify that the student either took no final exam(s) or otherwise completed coursework for a final grade for the semester/term in question; in addition, students are expected to affirm these conditions at the time of the request. Falsely attesting to the eligibility on the Student Request for Medical Withdrawal form is a violation of the Code of Student Conduct and may result in the revocation of a Medical Withdrawal and/or referral to the Office of Student Conduct.

Academic Impact

Medical Withdrawal, when approved, withdraws a student from all courses for a given semester/term. Students are not allowed to medically withdraw from individual courses. The only exception to this policy occurs when parts of a term within a semester have unique start and end dates. For example the summer semester at UA includes four separate parts (Interim Term, Summer I, Summer II, and full Summer Term). It would be possible, if approved, for a student to complete coursework in Summer I and to medically withdraw from Summer II. In this example, the student would not be medically withdrawn from the entire summer semester, but rather only from all courses for the Summer II.

Procedures

After appropriate SHC personnel have deemed a Medical Withdrawal request eligible for consideration, a designated SHC physician handles all Medical Withdrawal decisions on behalf of the University. The designated SHC physician, on behalf of the University and, where appropriate, in consultation with relevant University personnel, will conduct an individualized assessment of the student’s situation before deciding to approve or deny the request and determining the effective date of the withdrawal. The effective date will be determined based on the circumstances associated with the student’s participation at UA and the medically related documentation. The designated physician’s decisions regarding Medical Withdrawal are final with no appeal rights. If approved, the SHC will notify the student and the Office of the University Registrar. Upon notification by the SHC, the University Registrar shall process the withdrawal and notify the student. If the request is denied, the SHC shall notify the student.
Medical Withdrawal Documentation

1. A student must fully and accurately complete the Student Request for Medical Withdrawal form (available at www.shc.ua.edu) and send the completed form by fax (205-348-7174), email (medwithdrawal@ua.edu) or if there is time by mail to The Student Health Center, Medical Withdrawal, 750 Peter Bryce Boulevard, Tuscaloosa, AL 35401.

2. A student must have a licensed medical provider (physician, nurse practitioner, or mental health professional) submit a completed Licensed Provider Recommendation for Medical Withdrawal form (available at www.shc.ua.edu) by fax (205-348-7174), email (medwithdrawal@ua.edu) or if there is time by mail to The Student Health Center, Medical Withdrawal, 750 Peter Bryce Boulevard, Tuscaloosa, AL 35401. The licensed medical provider shall be the one who is currently treating the student for the condition(s) prompting the withdrawal request and is responsible for obtaining permission from the student to provide the documentation and to discuss the medical conditions, if needed, with the appropriate University personnel. If the University, in its sole discretion, determines that an extraordinary or emergency situation exists, alternative documentation may be requested and considered.

3. A student may also attach to the student request form any further supportive documentation from faculty teaching the student’s currently enrolled courses, or if to support a retroactive withdrawal, from faculty who taught the student for the semester/term for which the withdrawal is requested.

4. In the event that the student’s medical condition so incapacitates the student that the student cannot act on his or her own behalf, the student’s parent or legal guardian should contact the Student Health Center at 205-348-7164 for further guidance.

Types of Medical Withdrawals

1. Regular Medical Withdrawal, within the current semester/term. A timely regular Medical Withdrawal request must be made before the close of business on the last day of classes of the semester in question. A timely withdrawal for the current semester requires a Student Request for Medical Withdrawal form submitted by the student and the Licensed Provider Recommendation for Medical Withdrawal form submitted by a licensed practitioner (forms available at www.shc.ua.edu). The student is encouraged to begin the medical withdrawal request process as soon as it becomes evident that a physical, emotional, or psychological condition significantly impairs the ability to function successfully or safely as a student. The designated SHC physician shall determine the effective date for the medical withdrawal based on the circumstances associated with the student’s participation at UA and medically related documentation. An approved Regular Medical Withdrawal requires the submission of the Licensed Provider Return to Campus (Medical Clearance) form as described below in the section Return to the University Following Medical Withdrawal as well as its approval by the SHC-designated physician.

2. Retroactive Medical Withdrawal. A timely withdrawal for a previous semester must be made within sixty (60) calendar days of the last day of classes for the semester/term for which the withdrawal is requested. The student must submit the Student Request for Medical Withdrawal form and the Licensed Provider Recommendation for Medical Withdrawal form (forms available at www.shc.ua.edu). For all approved Retroactive Medical Withdrawals, the effective date shall be the last day of classes for the semester/term in question. Also, if a student is seeking a retroactive medical withdrawal and is currently enrolled or intending to be enrolled or registered for an upcoming semester or term, then the student must also submit with the Licensed Provider Recommendation for Medical Withdrawal form a Licensed Provider Return to Campus (Medical Clearance) form.

Failure to submit the Return to Campus form at the same time as the request for retroactive withdrawal will prevent the student’s request for retroactive medical withdrawal from being considered. Further, if such a student’s medical withdrawal is granted, the student will have the option to (1) retract the request for a retroactive Medical Withdrawal and remain registered/enrolled or (2) take a Medical Withdrawal for the previous and current semester or term in which they are enrolled. If the student selects the latter option, the student will still have to submit and have approved additional Return to Campus paperwork before being eligible to seek re-enrollment.

Medical Withdrawal Requests submitted outside of the semester in question, and beyond the required sixty (60) day deadline, must have clear, convincing, and extraordinary circumstances in order for the request to be considered.

Extensive documentation (such as extended hospitalization and rehabilitation progression not met, etc.) must be submitted to the SHC and must be related to the reasons for the medical withdrawal and to the circumstances that prevented a timely request.

Handling of a Medical Withdrawal

Once a Medical Withdrawal has been approved, the withdrawal will proceed under these guidelines:

1. The Office of the University Registrar assigns a grade of “W” on the official transcript for effective dates that fall after the add/drop period for the semester.

2. All grades from the transcript, for the term in question, are completely removed when the Medical Withdrawal effective date falls within the add/drop period for the semester.

3. The impact of an approved non-medical semester withdrawal (administrative withdrawal) for the same semester is addressed in the following way:

   1. If an approved non-medical withdrawal from an academic division pre-dates the approved Medical Withdrawal effective date, the earlier date will be applied by the Office of the University Registrar.

   2. If the approved Medical Withdrawal effective date pre-dates an approved non-medical withdrawal, again, the earlier date will be applied by the Office of the University Registrar.

Return to the University Following Medical Withdrawal

When the Medical Withdrawal is approved, an SHC representative shall place a medical clearance hold on the student’s record. A medical clearance hold will remain in place until the appropriate medical documentation is received and a designated SHC physician approves release of the hold. If the hold is not removed by approximately one week prior to the start of classes for the term in question, all of the student’s classes will be dropped for that term, regardless of whether or not an appeal is in process.

A student seeking to return following a Medical Withdrawal must provide appropriate medical documentation from a licensed physician, nurse practitioner, or mental health professional who is knowledgeable of the student’s full health history and has treated the student since the effective date of Medical Withdrawal. This medical documentation must indicate that it is appropriate and safe for the student to resume classes at the beginning of a specified semester/term. A completed Licensed Provider Recommendation for Return to Campus (Medical Clearance) form (available at www.shc.ua.edu) must be submitted to the Student Health Center, by fax (205-348-7174), email (medwithdrawal@ua.edu).
Upon receipt of the required Licensed Provider Recommendation for Return to Campus (Medical Clearance) form and other appropriate medical documentation, a designated SHC physician, on behalf of the University and, where appropriate, in consultation with relevant University personnel, will conduct an individualized assessment of the returning student’s situation. The assessment will include reviewing materials submitted by the student or on the student’s behalf. During the process of reviewing a student’s request to return, if at the discretion of the SHC physician, a determination is made that the information provided by a treatment provider or student is incomplete, requires further explanation or clarification, or when there is a discrepancy between the medical information provided and other available information relating to the student, the student may be required to provide additional documentation and/or grant permission to the SHC to obtain further information about the student’s current condition. In extraordinary circumstances (e.g., concern exists about the medical provider’s credentials/assessment, etc.), the student may be asked to undergo, at their expense, additional evaluation or assessment to assist with the determination about readiness to return. All steps that the SHC may initiate as part of its individualized assessment are aimed at ensuring the student is ready to resume studies and be a successful member of the campus community.

Every effort will be made to respond to a student’s request for return within fourteen (14) calendar days of receipt of all requested or required materials. A longer response time may be caused by the inability to reach a student’s treatment provider, clinic closure during University holiday periods, or other extenuating circumstances.

If the decision is made to grant the student’s request to return and lift the medical clearance hold, relevant University personnel may contact the student to discuss or review a plan for sustained health. Recommendations for return shall, if applicable, include, but will not be limited to, ongoing treatment, accommodations, or other resources to help the student succeed.

If, at the discretion of the SHC physician, it is determined that the hold should remain in place because a student is not yet ready to return, the student will be advised in writing by letter or via email to their University account. A student may appeal that decision by submitting an appeal letter in writing to the SHC by email (medwithdrawal@ua.edu) or fax (205-348-7174) within fourteen (14) calendar days of receiving the SHC physician’s decision. A designated Appeal Team, which will consist of the executive director of the SHC, the director of Student Care & Well-Being, and a designee of the provost, shall review the matter and make a final determination as to the student’s ability to return. Once the Appeal Team’s determination has been made, that decision is final and no further appeals are permitted.

A student registered for a future term and seeking a medical withdrawal will have a medical clearance hold placed on the student’s record, which will temporarily preserve the enrollment for that future term assuming all financial obligations are met. The student will have until one week prior to the start of the future term to have completed the protocol listed above and have the hold removed. The medical clearance form should be submitted one month prior to the first day of classes for the semester the student wishes to attend. The process normally takes about 14 working days, depending on the need for additional communication with the licensed provider.

If the medical clearance hold is lifted, the returning student may have additional holds on their record (e.g., conduct hold, financial hold, academic hold, etc.) that will need to be resolved through other areas of the University before the student may return. Additionally, to return, the student must meet any applicable admission and enrollment requirements of the University and of the school or college in which they wish to be enrolled.

**Financial Impact of Medical Withdrawals**

The purpose of this policy is to provide academic relief to the student, not financial relief. Please refer to Student Account Services policy for the financial impact of withdrawals at different stages in the semester ([https://studentaccounts.ua.edu/financial-implications-of-withdrawal-impact-on-institutional-costs-and-charges/](https://studentaccounts.ua.edu/financial-implications-of-withdrawal-impact-on-institutional-costs-and-charges/)). Financial questions may also be directed to Student Account Services, 205-348-5350.

**Other Options For Students When Medical Withdrawal is Not Appropriate**

When Medical Withdrawal is not appropriate, the student is directed to the appropriate dean’s office student services area for other potential options.

**Questions**

Please call 205-348-7164 for clarification or more information.

**Administration and Faculty**

**The Honorable Kay Ivey**

- Governor of Alabama
- Ex Officio President of the Board of Trustees

**Ed Richardson**

- Interim Superintendent, Alabama State Board of Education
- Ex Officio Member of the Board of Trustees

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Academic Divisions of the University
College of Arts and Sciences (1910)
• Robert F. Olin, Dean

Culverhouse College of Business (1919)
• Kay M. Palan, Dean

College of Communication and Information Sciences (1973)
• Mark D. Nelson, Dean

College of Community Health Sciences (1971)
• Richard H. Streiffer, Dean

College of Continuing Studies (1919)
• Craig S. Edelbrock, Dean

College of Education (1909)
• Peter S. Hlebowitsh, Dean

College of Engineering (1909)
• Charles L. Karr, Dean

Graduate School (1924)
• Susan Carvalho, Dean

Honors College (2003)
• Shane Sharpe, Dean

College of Human Environmental Sciences (1931)
• Milla Boschung, Dean

School of Law (1872)
• Mark E. Brandon, Dean

Capstone College of Nursing (1976)
• Suzanne Prevost, Dean

School of Social Work (1965)
• Vikki Vandiver, Dean

Graduate School Staff
Qualifications of the Graduate Faculty
The purpose of the graduate faculty of The University of Alabama is to set standards for graduate work and to provide graduate instruction. It is the responsibility of the graduate faculty in each division to elect its representative(s) to the Graduate Council, which acts for the faculty in matters relating to graduate work. There are three categories of members: full, associate, and temporary. Only members of the graduate faculty may teach courses numbered 500 or above, and only members of the graduate faculty may serve on thesis, dissertation, and examining committees. Only full members may chair dissertation committees, associate members may serve as chair on thesis committees.

Criteria for Full and Associate Members
The dean of each academic division has the annual responsibility of nominating members who meet the following criteria to serve on the graduate faculty:

I Hold the PhD or other terminal degree and hold the rank of at least assistant professor in a full-time, tenure-track position.

II Must demonstrate ability and continuing interest in the graduate program and in research or creative activity. Full members must show a strong, continuing record of productive research, publication, creative activity, and scholarly activity appropriate to the discipline. These broad requirements are best interpreted by each department and college considering their unique aspects.

III Be recommended by the departmental graduate faculty, department chairperson, and dean of the academic division.

Terms of appointment
Full and associate members are appointed for six-year, renewable terms.

Temporary membership
Temporary membership may be extended to well-qualified individuals who do not satisfy the above criteria, to perform specific functions for specific time periods not to exceed three calendar years. They should be recommended by the departmental graduate faculty, department chairperson, and dean of the academic division. These nominations then will be acted on by the chairperson of the Graduate Council, the dean of
the Graduate School. While temporary faculty members may serve as co-chair to a committee, they may NOT serve as the sole chair.

**Administrative appointments**

Faculty members currently on administrative appointments or returning to the faculty from such appointments are eligible for full or associate membership on the graduate faculty. They should show, at a minimum, promise of satisfying the appropriate departmental and University membership criteria. The individual's record of teaching and research before becoming an administrator should be considered.

**Retirement**

Members of the graduate faculty are automatically permitted to retain graduate faculty status for one year after retirement. After a graduate faculty member retires, the faculty member may need to continue to serve as a chair or member of students' thesis or dissertation committees. Retired graduate faculty members may be appointed as temporary members of the graduate faculty for this purpose and/or to perform other specific functions. The nomination and appointment procedures for these temporary appointments are the same as those adopted by the academic unit and the University.

**Graduate Faculty**

A current list of full, associate and joint members of the Graduate Faculty is available online. It includes each faculty member’s name, department, status (associate or full member), appointment date, and end-of-appointment date. Faculty members need to apply through their department and the dean’s office of their college/school for reappointment to the graduate faculty during the fifth year of their six-year appointment, in order to continue to teach graduate courses, serve on thesis and dissertation committees, and chair dissertation committees (full members only).

A list of temporary graduate faculty is also available online. The graduate dean appoints such faculty to perform specific functions (e.g., serving on a thesis or dissertation committee) for a finite period of time, and the appointment ends when the function is completed.

**Graduate Faculty Appointment Procedure**

The procedure is the same for initial appointments and renewal appointments. The department chair sends the dean of the college an appointment request either for full, associate, or temporary graduate faculty status.

The department chair attaches the faculty member’s current curriculum vitae to the request. The dean of the college reviews the request and, if the dean approves, forwards the request to the dean of the graduate school. The dean of the graduate school reviews the request and responds to the dean of the college, the department chair, and the graduate faculty candidate.

**General Information**

**Mission, Vision and Strategic Goals of the University**

**UA Mission Statement**

**Our Mission**

To advance the intellectual and social condition of the people of the state, the nation, and the world through the creation, translation, and dissemination of knowledge with an emphasis on quality programs of teaching, research, and service.

**Our Vision**

The University of Alabama will be the university of choice for the best and brightest students in Alabama and a university of choice for all students who seek exceptional educational opportunities. The University of Alabama will be a student-centered research university and an academic community united in its commitment to enhancing the quality of life, not only for all Alabamians, but for citizens of the nation and world.

**Our Strategic Goals**

- Advance the University’s academic, research, scholarship, and service priorities, consistent with a top tier university, and continue to promote growth and national prominence in these areas.
- Enhance the teaching, research, and service mission of the University by retaining and recruiting outstanding faculty and staff.
- Enhance the University’s learning environment to attract and retain excellent students.
- Develop a universitywide emphasis on leadership as a primary role of the flagship university of the state of Alabama.

**Mission of Graduate School**

The Graduate School, through graduate offerings of the various colleges and schools, prepares students for careers in a wide range of teaching, research, creative, and service activities. The Graduate School assists the graduate faculty in offering programs of study leading to more than 120 master’s, Educational Specialist, and doctoral degrees. It works with the office of the Executive Vice President and Provost to coordinate the ongoing program review of all academic departments and programs of the University.

Personnel of the Graduate School work with departments to identify prospective graduate students and enroll a graduate student population consistent with the enrollment objectives of the University. The objectives include not only overall enrollment, but also the enrollment of a diverse student body. The Graduate School operates in cooperation with the other colleges and schools of the University to foster the development of teaching by graduate teaching assistants.

**History and Organization**

In 1819, the Congress of the United States donated 46,000 acres of land within the state of Alabama for the endowment of a seminary of learning. The board of trustees of the University was created by the General Assembly of Alabama in 1821, and on April 18, 1831, the University was opened for the admission of students. From the outset, the University offered graduate degrees, the first being a Master of Arts degree conferred in 1832. On April 4, 1865, most University buildings were burned to the ground by a body of federal cavalry. Construction of new buildings began in January 1867, and classes were resumed in April 1869. On February 25, 1884, the federal government donated 72 sections of public lands within the state to the University of Alabama in restitution for its loss in buildings and equipment when the campus was destroyed in 1865.

The Graduate School was organized as a specialized division of the University in 1924, when the University began to offer master’s degrees. In the fall of 1950, the University began to offer the PhD degree. Today, The University of Alabama provides a comprehensive program of graduate study in more than 120 master’s, Educational Specialist, and doctoral degree programs. The comprehensive program of graduate study embraces the humanities, the sciences, education, and several professional areas.

Graduate study is designed for college graduates who desire a deeper and more thorough involvement in scholarship and research and more
thorough professional preparation in their chosen fields. Graduate study, especially at the doctoral level, is designed to develop independent scholarship, originality, and competence in research or competence in the various professional areas in which doctoral programs are offered.

The Graduate School is composed of the divisions that offer graduate instruction leading to advanced degrees. The faculty of the Graduate School consists of those faculty members of the divisions who are deemed qualified by their peers and deans to teach and do research of graduate caliber and who participate actively in these graduate activities. The Graduate School has supervision over all graduate work in the University except law and medicine.

The Graduate Council is composed of four appointed and 22 elected members and formulates graduate policy. The dean of the Graduate School is ex officio chairperson of the Council and is responsible for the administration of the regulations and requirements for advanced degrees.

Accreditation

The University of Alabama is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, master’s, Educational Specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of The University of Alabama.

Selected graduate programs have been accredited by the American Assembly of Collegiate Schools of Business, American Bar Association, American Library Association, American Psychological Association, American Speech-Language-Hearing Association, Association of Research Libraries, Commission on Collegiate Nursing Education, Council on Social Work Education, National Association of School Psychologists, National Association of Schools of Art and Design, National Association of Schools of Dance, National Association of Schools of Music, National Association of Schools of Theatre, Council on Accreditation of Counseling and Related Educational Programs, Council on Rehabilitation Education, and National Council for Accreditation of Teacher Education.

Academic Common Market

The Academic Common Market (ACM) is a tuition scholarship program that enables selected students to pursue out-of-state college degrees at discounted tuition rates through agreements among the states, colleges, and universities. The ACM is designed for qualified first-time freshmen, first-time graduate students, and first-time transfer students. The purpose of the Academic Common Market is for states to share specified academic degree programs located at Southern public colleges and universities. This is accomplished through an exchange of students across borders at in-state tuition rates. The Southern Regional Education Board (SREB) coordinates the ACM, and through this program, students wishing to study in majors not available in their home states may be able to attend out-of-state universities that agree to pay the out-of-state portion of their tuition. Approximately 30 of UA’s degree programs participate in the ACM.

For more information regarding program eligibility, participation qualifications, and the ACM application process, please visit gobama.ua.edu/academic-common-market.

Capstone International Center

The University of Alabama provides a wide variety of international education programs and services at the Capstone International Center (CIC), housed on the first floor of B.B. Comer Hall. The Capstone International Center takes its name from its historical pre-eminence in the state as a provider of international education. The CIC is comprised of several integrated units. These include the English Language Institute (ELI), Education Abroad (EA), and Capstone International Student & Scholar Services. The Capstone International Center has multiple complementary functions, including intensive English language instruction, U.S. immigration compliance, Fulbright programs, and study-abroad programs. The Capstone International Center is a multipurpose center designed to inform, assist, and educate both international and domestic students, faculty, and staff members, as well as members of the local civic, education, and corporate communities. The CIC annually serves more than 1,600 international students on campus and makes possible the participation of UA faculty, students, and staff in a multitude of internationally focused degree, research, and outreach programs. Education Abroad sends approximately 1,200 students abroad each year. The CIC also oversees the Global Studies Certificate.

Outreach is an important function within Capstone International as evidenced by its Sakura Festival (focused on Japanese culture), involvement with Tuscaloosa Sister Cities Commission (TSCC), involvement with Japan America Society of Alabama (JASA), and the work of the English Language Institute (ELI). ELI provides the annual World Friends Day for local elementary schools, annual summer programs for students from our sister city in Japan, on-site corporate programs, and tailored courses for the children and spouses of employees. A wide variety of activities are coordinated in conjunction with the Rotary International Club of Tuscaloosa, Tuscaloosa’s International Friends (TIF), the Children’s Hands-on Museum (CHOM), University Place Montessori School, and the Tuscaloosa Club of Altrusa International. In addition, CIC has previously worked extensively with the German Supplementary School for school-age children from Germany.

The CIC is involved with numerous international education organizations providing professional training, outreach to national and local government entities, and annual conferences to promote international education at member universities. These organizations include: NAFSA: Association for International Educators, the Institute for International Education (IIE), the Council on International Educational Exchange (CIEE), the Association of International Education Administrators (AIEA), the European Association of International Education (EAIE), and the Forum on Education Abroad.

Programming, activities, and resources of CIC include:

- Academic Programs
- Academic Support Program
- English Language Institute
- External Group Programs
- Fulbright Program Advisors
- Graduate Research Advisors
- Intensive English Program
- International Exchange Programs
- International Linkages
- International Scholar Events
- International Student and Scholar Services
- International Student Programming
- International Teaching Assistant Program (ITAP)
- Multicultural Guidance and Counseling
- Overseas Study
- Overseas Study Resource Center
Exchange Partner Institutions in Europe include:

- University of Birmingham - England
- University of Hull - England
- University of Leicester - England
- KEDGE Business School - France
- Université de Poitiers - France
- Université de François-Rabelais-Tours - France
- Freie Universität Berlin - Germany
- University of Augsburg - Germany
- University of Mannheim - Germany
- Università Cattolica del Sacro Cuore - Italy
- University G. d’annunzio del Sacro Cuore - Italy
- Politecnico di Torino - Italy
- Hanzehogeschool-Gröningen - the Netherlands
- University of Glasgow, Scotland
- Aberystwyth University - Wales

**Contact the CIC**

The Capstone International Center can be contacted by telephone at 205-348-5256, by fax at 205-348-5298, by email at cic@ua.edu or by mail at The University of Alabama, Capstone International Center, Box 870254, Tuscaloosa, AL 35487-0254. The office is located in 135 B.B. Comer Hall.

**Academic Programs**

Through its three units, the English Language Institute (ELI), Education Abroad (EA) and Capstone International Services (CIS), the Capstone International Center provides courses, programs, and activities to The University of Alabama community.

**Fulbright Programs**

The Capstone International Center encourages and facilitates active participation in all Fulbright programs. Since the founding of the Fulbright programs in 1948, approximately 125 UA students, faculty, and professional staff members have been selected to receive the prestigious Fulbright award. Their appointments have ranged from Austria to Zimbabwe. More information is available from the CIC, 135 B.B. Comer Hall; 205-348-5256; or cic@ua.edu.

**Education Abroad**

The Education Abroad office, a unit of the Capstone International Center, provides support to the UA community through identifying, developing, and administering study abroad opportunities. Education Abroad offers academically challenging programs for students, promoting both academic and personal growth. The office is responsible for all of UA’s credit-bearing global learning experiences. Exchange programs, affiliate programs, and numerous faculty-led programs are offered. Visit studyabroad.ua.edu to learn more about all of the study abroad programs.

**Exchange Programs**

The University of Alabama offers a number of international exchange programs that allow students to study as visiting students at overseas universities. Each program gives students opportunities to learn in a foreign country where they obtain firsthand knowledge of another people, language, and culture in addition to gaining course credits. In some cases, a working knowledge of the language of the host country is a prerequisite. In others, the language can be studied for the first time in the host country; sometimes, no language requirement is necessary (e.g., England and Australia). Students pay University of Alabama tuition based on residency and are assisted in arranging transfer of credits through appropriate departments and divisions prior to departure. Graduate students should secure approval from the Graduate School prior to taking any overseas credit that they may wish to transfer.

International exchange programs are available to UA students at the following partner universities for either one or two semesters and, in some cases, summer study:

**Exchange Partner Institutions in Europe include:**

- University of Klagenfurt - Austria
- Université de Liège - Belgium
- Aarhus School of Business - Denmark
- KEDGE Business School - France
- Université de Poitiers - France
- Université de François-Rabelais-Tours - France
- Freie Universität Berlin - Germany
- University of Augsburg - Germany
- University of Mannheim - Germany
- Università Cattolica del Sacro Cuore - Italy
- University G. d’annunzio del Sacro Cuore - Italy
- Politecnico di Torino - Italy
- Hanzehogeschool-Gröningen - the Netherlands
- University of Glasgow, Scotland
- Aberystwyth University - Wales

**Exchange Partner Institutions in the Asia-Pacific region include:**

- Queensland University of Technology - Australia
- Feng Chia University - the Republic of China-Taiwan
- Chiba University - Japan
- Hiroshima University - Japan
- Kansai Gaidai University - Japan
- Meiji University - Japan
- Ritsumeikan University - Japan
- Ajou University - Korea
- Pusan National University - Korea
- Yonsei University - Korea

**Direct-Enroll Study Abroad Institutions:**

- University of Sydney - Australia
- University College Dublin – Ireland

**Faculty-led Programs**

In addition to its longer-term international exchange programs, The University of Alabama conducts many overseas study programs lasting from two to six weeks, most often during the summer and Interim sessions. These are normally led by UA faculty members. The number of these programs has expanded greatly over the last few years. Scholarships and financial aid are available to students participating in these programs. Examples of programs and fields of study in recent years have included the following:

- UA in Australia: Law
- UA in Austria/Czech Republic: Field Studies in Water and Climate Change
- UA in Belgium: Political Science
- UA in Belize: Rainforests and Reefs
- UA in China: Language and Culture
- UA in Europe: International Financial Reporting
- UA in Honduras: Marine Science Internship
- UA in France: Language and Culture
- UA in Germany: Honors Intercultural Understanding via Global Perspectives
- UA in Ghana: Service Learning
- UA in Ghana: Global Health
- UA in Greece: Birth of Western Civilization
• UA in Italy: Language and Culture
• UA in India: STEM Path to MBA
• UA in Ireland: Chemical Engineering
• UA in Jamaica: Democracy and Economic Development
• UA in Oxford: English, History, Honors
• UA in New Zealand: Honors Intercultural Understanding via Global Perspectives
• UA in Spain: Language and Culture
• UA in South Africa: Resistance and Freedom
• UA in Spain: Science, Technology, and the Environment
• UA in Sweden: Women Studies and Political Science
• UA Nursing: Healthcare Missions to Kenya, Bolivia, Peru, China, Dominican Republic
• UA Internships: Barcelona, Dublin, London, Chile, Seoul, Shanghai, Australia, and New Zealand

Academic Program Policies
• Students participating in UA programs abroad must be in academic good standing. GPA requirements vary by program.
• All UA students participating in programs abroad will be cleared through the Office of Student Conduct.
• Students must submit all application and pre-departure requirements prior to program departure.
• Study abroad in countries where current U.S. Department of State Travel Warnings exist is subject to additional restrictions and requirements, and may be denied.

Additional information about any international program may be obtained from studyabroad.ua.edu; 135 B.B. Comer Hall; by writing The University of Alabama, Education Abroad, Capstone International Center, Box 870254, Tuscaloosa, AL 35487-0254; or by calling 205-348-5256. In the rare instance where The University of Alabama is unable to meet the overseas study needs of a student, Education Abroad provides information about additional international education opportunities available through study abroad at other institutions and organizations.

Japan Program
The Capstone International Center, in conjunction with the Department of Modern Languages & Classics, administers academic and cultural programs and activities designed to increase understanding between the peoples of the United States and Japan. Through linkages with universities and other educational or cultural agencies in Japan, the program enables UA students and faculty members to study, conduct research, and teach in Japan.

Reciprocal student exchange programs with Kansai Gaidai University in Osaka, Ritsumeikan University in Kyoto, Hiroshima University, Meiji University in Tokyo, and Chiba University enable qualified postgraduate students to study Japanese in Japan while undertaking Asian studies, humanities, social science, and science courses taught in English. Generous AIE-J scholarships providing round-trip transportation and a monthly stipend are available on a competitive basis to UA students. Examples of courses offered at partner institutions include Japanese-Style Management, Japanese Economic Development, Sociology of Everyday Life in Japan, Survey of Modern Japanese History, Japanese Culture and Education, Seminar in Geography, Agriculture and Agricultural Sciences in Japan, and Introduction to Deep-Sea Biology. Chiba University offers prestigious Monbusho (Ministry of Education) graduate student research scholarships for 18 months of study. The Monbusho scholarship provides round-trip transportation and monthly stipends to cover living costs.

A founding and active member of the Tuscaloosa Sister-Cities Commission as well as the Japan-America Society of Alabama, Capstone International organizes the annual spring Sakura Festival and Haiku contest for the state of Alabama.

Contact Education Abroad
Education Abroad can be contacted by telephone 205-348-5256, by fax at 205-348-5298, by email at studyabroad@ua.edu or by mail at The University of Alabama, Capstone International Center, Box 870254, Tuscaloosa, AL 35487-0254. The office is located in 135 B.B. Comer Hall.

International Services
International Services, a unit of the Capstone International Center, provides specialized services for international students, professors, research scholars, visitors, and their families.

International Services’ primary function is to provide visa support for these international members of the UA community. The office is responsible for the creation and ongoing maintenance and verification of visa support documents within the Student and Exchange Visitor Information System (SEVIS) for both F-1 student visas and J-1 student and scholar visas. These are ongoing services that monitor individual progress according to federal regulations. The office is also responsible for filing H-1B and other types of work-visa support documentation on behalf of international faculty and staff at UA.

International Services conducts comprehensive orientation programs and provides vital information regarding U.S. immigration compliance as well as multicultural guidance and counseling. Great emphasis is placed on international student programming. International Services coordinates a wide variety of student activities such as a weekly international coffee hour, an international spouse support group, and an annual welcome reception for international students at the President’s Mansion.

Professional staff members advise and assist the International Student Association, which represents all international students, and the many nationality organizations on campus. Professional staff work closely with community groups such as Tuscaloosa’s International Friends (TIF), which sponsors a friendship family program for international students.

International Services may be contacted by telephone at 205-348-5402, by fax at 205-348-5406, by email at international@ua.edu, and by mail at Box 870254, Tuscaloosa, AL 35487-0254, USA. More information about office services, visa regulations, and processing of visa support is available on the website: http://international.ua.edu. International Services is located in 105 B. B. Comer Hall.

English Language Institute
The University of Alabama English Language Institute (ELI), a unit of the Capstone International Center, provides instruction and support in English as a second language for non-native speakers of English.

The ELI offers the following programs:

Intensive English Program and Courses

The ELI Intensive English Program (IEP), which is accredited by the Commission on English Language Program Accreditation (CEA), is designed for non-native speakers of English who need to improve their English language proficiency. The primary focus of the program is on preparing students for academic success in undergraduate and graduate study at The University of Alabama.
Six levels of study, from beginning to advanced, are available. Each level consists of 20-24 hours per week of classroom instruction. Each level of study lasts 6-8 weeks and is available during each of six sessions offered annually. Sessions begin in January, March, May, June, August, and October. Students may begin their English study at the start of any one of these sessions.

Students pursuing graduate study must complete ELI Level 6 with a GPA of 3.5 (in Levels 4-6) or obtain a minimum iBT score of 79 or a 6.5 IELTS score. In certain cases, the Graduate School, the ELI, and the student’s academic department may together grant permission for a student to enroll in one graduate course per semester while completing the ELI program of study. The specific course must be approved by the instructor and department prior to enrollment. Students who receive Conditional Language Admission to the Graduate School because they do not have the required minimum TOEFL or IELTS score may also receive permission to take one graduate course depending upon their placement level within the ELI.

IEP courses at the ELI include the following:

**Structure, Levels 1-6:** ELI Structure courses provide students with the basic grammatical structures they will need to communicate effectively in all aspects of English—listening, speaking, reading, and writing. Each Structure course emphasizes communication—both comprehension (listening and reading) and production (speaking and writing). Structure courses meet 5 hours per week in fall and spring sessions and 7 hours per week in summer sessions.

**Speaking/Listening, Levels 1-6:** ELI Speaking/Listening courses provide students with the opportunity to improve their listening and speaking skills and to gain confidence in using English to communicate orally. Students develop fluency, practice appropriate conversation management skills, receive instruction on pronunciation, learn useful vocabulary, and focus on comprehensibility. These activities are carried on through a variety of classroom exercises that focus on the everyday situations students are likely to encounter while adjusting to life, including academic life, in the United States. Speaking/Listening courses meet 6 hours per week in fall and spring sessions and 8 hours per week in summer sessions.

**Reading/Writing, Levels 1-6:** ELI Reading/Writing courses are designed to provide students with skills needed to comprehend written discourse at the college level as well as produce written English in a variety of forms. Reading skills include understanding the main idea of a passage, understanding an author’s purpose, distinguishing fact from opinion, reading quickly, using the resources of a collegiate dictionary, and discussing written discourse in a relatively sophisticated manner. Writing exercises are designed to stimulate self-expression and personal involvement in writing. With attention to each step of the writing process, teachers guide students toward communicating their ideas with increasing clarity and depth. Reading/Writing courses meet 9 hours per week in fall and spring sessions and 12 hours per week in summer sessions.

**Culturally Speaking, Levels 2-6:** The ELI Culturally Speaking class allows ELI and UA students to meet together to converse in English and discuss cross-cultural issues. Culturally Speaking also provides a comfortable way for all participating students to form friendships with each other and get to know students from cultures different from their own. Culturally Speaking is only offered during fall and spring sessions; it is not offered in summer sessions.

**Culture & Language Exchange Program**

The ELI Culture & Language Exchange Program (CLEP) pairs an ELI student with a UA student who is interested in the ELI student’s native language/culture. Once paired, these students then meet as often as they like for conversation practice in both English and in the particular foreign language. CLEP partners are not guaranteed and can only be provided when available, and the program is not offered during ELI summer sessions.

**ELI Customized Group Programs**

Customized group programs can be designed upon request for groups that need specialized needs. Such programs for non-native English speakers are typically designed for teachers of English, for university study-abroad students, for students who have been admitted for graduate study, for students or professionals in a particular discipline such as business or engineering, etc. An organization interested in a customized group program should contact the English Language Institute to request a program proposal.

**Academic Support Program**

The ELI Academic Support Program (ASP) provides support courses in English for UA undergraduate and graduate students who are non-native English speakers and who may want or need additional English-language instruction. At the graduate level, ASP support courses in writing and speaking are available free of charge to full-time international graduate students each fall and spring semester.

**International Teaching Assistant Program**

The International Teaching Assistant Program (ITAP) provides training and evaluation for international students who hold graduate teaching assistantships. Participation in ITAP is mandatory for all non-native English-speaking graduate teaching assistants and other graduate assistants who have instructional responsibilities at UA.

**Contact the ELI**

To obtain more information about any of the above ELI programs, contact the University of Alabama English Language Institute, visit the ELI website (http://eli.ua.edu) or contact the ELI at Box 870250, Tuscaloosa, AL 35487-0250; telephone 205-348-7413; fax 205-348-9266; or e-mail info@eli.ua.edu (info@eli.ua.edu)

**Center For Academic Success**

The Center for Academic Success (CAS) provides academic support designed to improve students’ academic performance. Programs and services are provided to help undergraduate students:

- Succeed in University of Alabama courses
- Improve study techniques
- Improve reading proficiencies
- Prepare for professional school and graduate school entrance examinations

Students may obtain program information, use resources, or talk with a staff member about services by calling 205-348-5175. The center is open Monday through Thursday from 8 a.m. to 10 p.m. and Friday from 8 a.m. to 4:45 p.m. during the fall and spring semesters. **Summer hours vary.**

Visit our website at cas.ua.edu for more information.
Academic Support Services at the Center for Academic Success

The Learning Resource Center

- The Learning Resource Lab provides students with access to materials and resources. Computer programs and other digitized media are available to students, as well as review materials for students preparing to take graduate and professional school entrance exams.
- Reading and Study Skills Workshops are offered to help students improve and build skill sets they need to be academically successful. Staff can also provide a study skills assessment to students on an individual basis.

Tutorial Services and Supplemental Instruction

- Review and Help Sessions are available to students for a variety of math, chemistry, and physics classes. These sessions are available for students to drop in and ask questions and seek assistance.
- Supplemental Instruction Sessions are facilitated by peer leaders and instructors. These sessions offer students the opportunity to integrate study strategies with specific content.
- Small Group Tutorial Sessions are available to students in select courses. Sessions are peer-led and are structured to give students more individual attention.

Academic Support Programs

- Student Support Services Trio Program: Designed to assist first generation college students; students with limited incomes, and/or students with disabilities; the program provides individualized support services to help increase student persistence and graduation as well as help students grow personally, academically, and professionally. To learn more about the SSS Program or to apply online, go to http://sss.ua.edu/.
- Academic Coaching: Coaching appointments are one-on-one meetings with staff members at the Center for Academic Success. These appointments are designed to help students evaluate their success, establish goals, identify academic resources, and create an action plan to improve their academic performance.

Division of Academic Outreach

More than ever before, students are choosing distance education to pursue their college degrees. The Division of Academic Outreach strives to facilitate University degree programs to adult learners who are limited by time, geography, work schedules, or personal obligations. Students may choose from formats that will fit their schedules and learning styles such as online, interactive video conferencing, evening and weekend classes, or online video-streamed classes. All degrees are conferred by the appropriate academic college.

For more information on these programs, write to The University of Alabama, College of Continuing Studies, Division of Academic Outreach, Box 870388, Tuscaloosa, AL 35487-0388. You may also call 205-348-0089 or toll free 800-467-0227, or email aoinfo@ccs.ua.edu. Visit the Bama by Distance website.

Online Courses

Academic Outreach delivers courses over the internet directly to the student’s computer online. Students are instructed through a secured internet site, and where they interact with their professors and other students online. Online courses accommodate the educational needs of individuals who have access to and experience with a computer and the internet.

Video Courses

Academic Outreach delivers undergraduate and graduate courses via online video streaming to students who cannot attend classes on campus. Lectures are recorded as they occur and streamed via the internet the same day. Students who do not have high-speed internet access are given the option to receive DVD recordings of the lectures. Students complete the same course requirements as on-campus students and take proctored exams at convenient sites.

IITS (Videoconferencing)

The Intercampus Interactive Telecommunication System (IITS) is a network of conference rooms connected to a statewide videoconferencing network. Approximately 30 sites throughout Alabama are equipped with cameras, monitors, and other devices that allow teachers and students to interact as if they were in the same room. Presenters use traditional visuals, such as PowerPoint presentations, overheads, and videotape/DVD as well as digital options unique to IITS.

Weekend College

Designed to meet the needs of both part-time and full-time students, Weekend College offers a number of courses in the fall, spring, and summer on Friday evenings and Saturday mornings and afternoons. Scheduling weekend classes is especially convenient for part-time students who would like to pursue academic studies while working.

Gadsden Education and Research Center

Established in 1946, The University of Alabama’s Gadsden Education and Research Center is an off-campus program serving residents of northeast Alabama. The center offers graduate coursework for credit, noncredit programs for professional development, and test services as well as serves as a liaison to the University’s main campus. Currently, the center offers more than 25 complete graduate degree or certification programs in education, including master’s degrees, Educational Specialist degrees, and class A and class AA certification programs. Graduate-level courses in library studies are also available in Gadsden. For more information please call 256-546-2886 or toll free 888-223-4131, or visit our Gadsden Center web site.

Evening Program

The Evening Program offers classes at times convenient for working adults. Students unable to continue their education in the traditional format (day classes) may take courses offered after 5 p.m. Monday through Friday. Courses are offered at both the undergraduate and graduate level in various subject areas.

Adult Student Services

The Division of Academic Outreach provides a universitywide point of entry for adult students returning to campus or entering the University for the first time. The division provides the services listed below to meet the particular needs of adult students. Through Academic Outreach students can:

- initiate the admission process
- receive assistance with applying for financial aid and adult student scholarships
- be referred to appropriate offices at the University for additional assistance with individual needs
• receive assistance with academic advising and schedule building

For more information call Academic Outreach Student Services toll free at 800-467-0227 or 205-348-0089, or visit the Bama by Distance website.

Required Disclosure Statements

Alaska
Distance education programs are exempt from authorization requirements in the state of Alaska under AS 14.48.

California
The University of Alabama is not under the purview of the California Bureau of Private Postsecondary Education.

District of Columbia
Education Licensure Commission of the Office of the State Superintendent of Education in Washington, D.C. granted The University of Alabama required conditional exemption to offer its programs to residents of the District.

Georgia
The University of Alabama is authorized under the Nonpublic Postsecondary Education Institutions Act of 1990.

Indiana
This institution is authorized by: The Indiana Board for Proprietary Education, 101 W. Ohio St., Ste 670, Indianapolis, IN, 46204-1984.

Louisiana
The University of Alabama is currently licensed by the Board of Regents of the State of Louisiana. Licensed institutions have met minimal operational standards set forth by the state, but licensure does not constitute accreditation, guarantee the transferability of credit, nor signify that programs are certifiable by any professional agency or organization.

Minnesota
The University of Alabama is registered as a private institution with the Minnesota Office of Higher Education pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

Nevada
The University of Alabama is licensed to provide experiential training in Nevada.

Texas
The University of Alabama is authorized by the Texas Higher Education Coordinating Board and is not regulated in Texas under Chapter 132 of the Texas Education Code.

Washington
The University of Alabama is authorized by the Washington Student Achievement Council and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree-Granting Institutions Act. This authorization is subject to periodic review and authorizes The University of Alabama to offer field placement components for specific degree programs. The Council may be contacted for a list of currently authorized programs. Authorization by the Council does not carry with it an endorsement by the Council of the institution or its programs. Any person desiring information about the requirements of the act or the applicability of those requirements to the institution may contact the Council at P.O. Box 43430, Olympia, WA 98504-3430.

Financial Assistance

Students receiving funding through the Graduate School must be admitted to a degree-seeking program and have completed an undergraduate degree at the time of enrollment.

Departmental Assistantships

Most academic departments offer a limited number of teaching or research assistantships, which pay the graduate student a stipend for up to 6 semester hours of teaching, 20 hours per week of research, or the equivalent. Some assistantships also include full or partial tuition scholarships. Prospective graduate students should contact their proposed departments and request information and application forms for assistantships, scholarships, and other awards.

The semester tuition scholarship for any eligible graduate assistant is limited to the full University charges for 15 graduate hours or to the student’s actual tuition costs, whichever is less.

Recipients of assistantships may also be entitled to relief from paying full nonresident tuition during the Interim and/or summer sessions, again dependent upon the FTE of their appointments.

Students whose graduate GPA falls below 3.0 after their first semester will not be allowed to hold a graduate teaching assistantship until such time as the GPA has increased to 3.0 or better. Nondegree students or students on academic warning may not hold assistantships.

The Graduate School will provide single-coverage health insurance for each qualified assistantship, based on the FTE (Full-Time Equivalency, or number of assigned work hours) of the appointment.

Any international student who is offered a graduate assistantship is limited to a maximum workload of 20 hours per week (0.5 FTE) for all combined appointments. All non-native speakers of English who accept classroom teaching or other instructional duties must successfully complete the International Teaching Assistant Program (ITAP). Students are enrolled in the ITAP by their departments.

Graduate assistants whose appointments are terminated before the end of the academic semester are eligible only for reduced tuition grants. Those assistants who resign or are dismissed from their duties before the end of the academic semester are personally responsible for the payment of any tuition and fees not covered by the reduced tuition grant. Withdrawal from classes for medical or any other reason may disqualify your assistantship for the whole semester, so please check with the Graduate School before making any withdrawal. Check The Department’s Guide to the Administration of Graduate Assistantships for detailed information concerning departmental assistantships.

Fellowships and Assistantships

Graduate School fellowships are designed for exceptional applicants. Unless otherwise noted, fellowships carry a service-free $15,000 stipend for the academic year (fall and spring) plus a full out-of-state tuition scholarship for up to 15 hours for the academic year (fall and spring). The Graduate School will provide single-coverage health insurance coverage for each recipient. Nominations must be made by the student’s department.
Students whose graduate GPA falls below 3.0 after their first semester will not be allowed to hold a fellowship until such time as the GPA has increased to 3.0 or better.

Fellowships and scholarships may affect a student’s allowable federal financial aid. Students who receive federal financial aid should consult with the UA Office of Student Financial Aid before accepting any of the fellowships listed below.

**Graduate Council Fellowships**
Graduate Council Fellowships are designated for both new and current graduate students. Departments can nominate resident, non-resident, and international students in this category. Graduate Council Fellowship are for one year.

**McNair Graduate Fellowships**
McNair Graduate Fellowships are for students who have either completed a McNair Scholars program as an undergraduate or who are McNair-eligible; i.e., a low income AND first-generation college student or a member of a group traditionally underrepresented in graduate education (Hispanic, African American, Native American, Native Hawaiian, Pacific Islander). Preference is given to doctoral students. Following two years of support from the Graduate School, a doctoral student’s home department is required to continue to support the McNair Graduate Fellow for at least an additional two years through an assistantship or equivalent. For master’s students, the Graduate School will provide one year of support followed by one year of support from the student’s home department.

**National Alumni Association Fellowships**
Departments may nominate students for National Alumni Association Fellowships. The recipient must be an Alabama resident (for tuition purposes). National Alumni Association fellowships are for one year.

**Joint Faculty Development Program Fellowships**
The University of Alabama Graduate School has joint programs with Alabama A & M University, Alabama State University, Oakwood College, and Stillman College for practicing faculty members at these institutions who do not have terminal degrees in their fields of instruction. Faculty members must be nominated for the fellowship by their home institution. Faculty who participate in this program receive support from both their home institution (to be negotiated with each institution’s vice president for academic affairs) and The University of Alabama Graduate School. The Joint Faculty Development Program provides support for up to two years of full-time graduate study to allow the faculty members participating in this program to complete the majority of their required coursework.

**Southern Regional Education Board (SREB) Doctoral Scholars Program**
The SREB Doctoral Scholars Program supports newly admitted graduate students who are seeking the PhD and planning a career in college teaching. Recipients must be a member of a group traditionally underrepresented in graduate education. The program provides a $20,000 annual stipend and a full tuition scholarship for up to three years. The student’s home department is required to continue to support the student for at least an additional two years through an assistantship or equivalent. Support is also available for students in the final year of their program.

**Graduate Student Travel and Research Support Fund**
These awards are available to all graduate students on a competitive basis, for presenting their research or for other research-related expenses, and are based on departmental nominations as well as department-based matching funds. For more information, students should contact their department offices, or go to https://graduate.ua.edu/prospective-students/graduate-school-scholarships-fellowships/#item-4.

**Departmental Scholarships and Grants**
Many departments and divisions offer special scholarships for graduate students. Consult individual departments for a list of these scholarships and grants.

**Federal Financial Aid**
Students enrolled in degree programs in the Graduate School are also eligible to apply for federally supported financial aid. Further information can be obtained from the Office of Student Financial Aid.

**Grievance Procedure (Faculty Handbook)**

1. **Academic Grievances**
   A. A student academic grievance is broadly defined as a student complaint regarding an academic action taken by instructional or administrative personnel at The University of Alabama. An academic grievance may be filed by a student against university personnel including instructional personnel, administrators, or staff members at the University. Examples of academic grievances include, but are not limited to, allegations of unfairness in grading, alleged violation of a written or oral agreement with a student (e.g. course requirements for graduation), and alleged inconsistent applications of existing policies.

   For a protest of a final course grade or other final comprehensive evaluations to be considered, the protest must be based upon one or more of the following grounds and upon allegation that the ground or grounds cited influenced the grade assignment to the student’s detriment:
   1. Arithmetic or clerical error
   2. Arbitrariness, possibly including discrimination based upon race, sex, religion, or national origin of the student
   3. Personal malice

   Grievances related to course grades normally should be filed during the semester in which the alleged action takes place, but such protest must be made not later than the last day of classes of the next succeeding regular semester. This grievance procedure is not available in cases where a decision has been appealed, and been afforded a committee hearing, and the appeal has been denied.

   B. A student must file a grievance in the academic department (academic department is a phrase that also refers to academic program or area if these terms apply) of The University of Alabama in which the alleged action took place. Academic grievances shall be resolved by the department head in the division where the grievance took place. Grievances concerning matters that are not within the jurisdiction of a particular academic division and grievances against the divisional academic dean must be resolved by the Provost/Vice President for Academic Affairs. Grievances against the department chairperson must be resolved by the divisional academic dean. Appeals from the academic dean’s decisions may also be made to the Provost/Vice President for Academic Affairs.
II Resolution by Department Chairperson
A. A student who believes that an academic action has unjustly affected him or her may file a grievance with the department chairperson. The facts and circumstances which are bases for the academic grievance should be presented to the department chairperson in written form.

B. The department chairperson will schedule a conference with the student who has brought the grievance, reissue the student a copy of the universitywide Academic Grievance Procedures, ascertain the circumstances involved, and review any materials or circumstances pertinent to the grievance to determine if there seems to be a reasonable or sound basis for the academic grievance. If the chairperson decides there may be a reasonable or sound basis for the academic grievance, or if the student insists on filing the grievance anyway, then the department chairperson will arrange conferences with the student and other person(s) involved.

Prior to these conferences, the other person(s) involved will be given a copy of the written grievance and will be reissued a copy of the universitywide Academic Grievance Procedures. Both the student and other person(s) will be informed that the purpose of conferences scheduled by the department chairperson is to attempt to resolve the issue informally. Both parties will be informed that they have the right to present any evidence, supporting witnesses, or any other relevant information during these conferences.

C. At the beginning of these conferences, the department chairperson will inform the student and other person(s) involved that the purpose of these meetings is to attempt to resolve the grievances informally. The department chairperson will act as intermediary between the student and other individual(s) with whom the student has a dispute. If a mutually satisfactory resolution can be reached, the academic grievance is resolved.

D. If a resolution cannot be reached informally between the student and other person(s) involved, then the matter will be forwarded to the academic dean to be resolved.

III Resolution by Academic Dean
Any matter not resolved by the department chairperson will be resolved by the academic dean. The dean may act alone or in the conjunction with a standing divisional committee or an ad hoc committee appointed by the dean, but the dean will make the decision. The academic dean will arrange conferences with the faculty or staff member, student, and others, as may be appropriate, to discuss the matter in question. The student and other person(s) involved will be given an opportunity to make a statement, present evidence, witnesses, or materials pertinent to the academic grievance; during these conferences both parties can be accompanied or advised by anyone either party chooses. The academic dean, after careful deliberation, will render a decision.

Notice of the dean's decision will be sent by certified mail to the student with copies to the faculty or staff member and other involved parties; either party may appeal the dean's decision to the Office for Academic Affairs if the appeal is filed within 15 working days of the date of mailing of the dean's decision.

IV Appeal
The dean's decision may be appealed to the Office for Academic Affairs within 15 working days of the mailing of the dean's decision. Appeals must be based on substantive grounds such as procedural errors, new information, or inconsistencies in the application of policies.

When an appeal is received by the Office for Academic Affairs, an official from that office will schedule a conference(s) with the student and other concerned parties to discuss the reasons for the appeal. If meetings with the student and other concerned parties result in an agreeable solution to the matter, the appeal process will end. If no such solution is reached, the official from the Office for Academic Affairs will recommend to the Provost/Vice President for Academic Affairs, giving reasons for the recommendation, whether the appeal should be heard or denied. If the Provost/Vice President for Academic Affairs denies the appeal, the appeal process will end. If the appeal is to be heard, the official from the Office for Academic Affairs will convene a panel to resolve the issues that remain. The panel will consist of a person designated by the Vice President for Student Affairs, a person designated by the Provost/Vice President for Academic Affairs (not the official convening the panel), one student (appointed by the president of the SGA), and one faculty member (appointed by the president of the Faculty Senate); both the student and faculty member will come from the division holding jurisdiction for resolving the academic grievance if it is possible to find such people who have no prior connection with the case. In cases involving graduate students, the faculty and student members of the appeal panel should hold graduate faculty or graduate student status respectively. The person designated by the Provost/Vice President for Academic Affairs will serve as hearing administrator and will coordinate and preside at all meetings conducted to resolve the academic grievance appeal.

The hearing by a panel is an administrative hearing and the proceedings will be informal rather than those used in courts of law. The panel may admit any evidence which is of probative value in determining the issues, subject to the panel's judgment as to the relevance, credibility, and weight of the evidence. The panel may ask the parties to produce evidence on specific issues, may examine witnesses, and may call and examine its own witnesses. The student may be represented at the hearing by a person of his or her choice; if the student is represented by an attorney, then the other parties may be represented by a person from the Office of the University Counsel. Each party (or the representative of the party) will have the right to confront and cross-examine all opposing witnesses. The panel will decide each of the issues raised in the appeal. The panel's decision will be final and will conclude the process insofar as the University is concerned.

A decision contrary to the student's position must be supported by the votes of at least three of the four panel members. The panel will give written notice of its decision to the student, the faculty or staff member, the dean, and the Provost/Vice President for Academic Affairs.

Housing and Dining Options

Housing
Housing is available in the many neighborhoods surrounding the University where apartments, rental houses, and condominiums are plentiful and reasonably priced. For more information concerning off-campus housing, please contact the UA Office of Off-Campus Resources at 205-348-8096 or offcampushousing@sa.ua.edu. Our Off-Campus Resources website, offcampushousing.ua.edu, allows UA students
The University Libraries at The University of Alabama offer a wide range of services to support research and learning. The system provides access to 199,515 full text print and electronic journals through the University Libraries website, which is available 24/7 from any computer, providing all library users with access to integrated collections, services, and information resources. The UA Action Card or Act Card includes a debit (Bama Cash) account that may be used at any Bama Dining location. Students may deposit money in a debit (Bama Cash) account at any time during the semester. Money-saving meal plans are also available through Bama Dining. Additional information may be obtained by visiting Bama Dining’s website or by writing to Bama Dining, Box 870389, Tuscaloosa, AL 35487-0389. Bama Dining can be reached at 205-348-6816 or 1-888-226-2366.

Dining Options

There are many food-service areas on campus, including the Ferguson Center food court, and a growing number of options in multiple locations. Students who live off campus, as well as campus residents, can enjoy the convenience of Bama Dining food service. The UA Action Card or Act Card includes a debit (Bama Cash) account that may be used at any Bama Dining location. Students may deposit money in a debit (Bama Cash) account at any time during the semester. Money-saving meal plans are also available through Bama Dining. Additional information may be obtained by visiting Bama Dining’s website or by writing to Bama Dining, Box 870389, Tuscaloosa, AL 35487-0389. Bama Dining can be reached at 205-348-6816 or 1-888-226-2366.

Libraries at The University of Alabama

With access to more than 4.1 million print and electronic resources, the University Libraries, a system of five separate discipline-related libraries, provides both traditional print collections and cutting-edge technology. All library buildings offer a computer-networked environment providing enhanced access to electronic information sources. In addition, a wireless network facilitates student use of laptop and tablet computers and cell phones. As research has become increasingly interdisciplinary in nature, students may find collections of importance in more than one library and in our online resources.

The University Libraries website, lib.ua.edu, available 24/7 from any computer, provides all library users with access to integrated collections, services, and information resources. Currently, the University Libraries system provides access to 199,515 full text print and electronic journals. In addition, more than 591 databases, including indexes, abstracts, and other reference resources, are linked from the Libraries’ website. The collection of electronic books continues to grow with more than 1.5 million e-books in all disciplines.

The University Libraries discovery interface, Scout, is accessible through the Libraries website and provides access to the full catalog of local holdings, as well as wide variety of database content— including scholarly and trade journals, popular magazines, current and historic newspapers, microfilm, federal government documents, digital archives, as well as streaming audio and video. Links to books and electronic materials on reserve, Interlibrary Loan services, and other self-initiated services, such as renewing books and requesting materials from the Libraries Annex, are also available. Faculty and students also have access to research collections encompassing more than 1 million titles from the Center for Research Libraries (CRL) via Interlibrary Loan.

Subject liaisons work closely with students and faculty to assist them in ordering or locating materials and in advising students and faculty who need specialized assistance with research projects. A list of subject liaisons is available on the University Libraries website. Reference services are available in person, over the phone, and online through the Ask-a-Librarian service. University Libraries also provides services for users with disabilities.

The University Libraries system offers academic software to support student assignments and class projects. Software is upgraded and added annually. Students can find locations of the current programs available on library computers by accessing the University Libraries website. The University Libraries provide access to 3D scanning and printing services, 3D stereoscopy, virtual reality, and other technology equipment for student learning and research.

In 2017, the University Libraries launched the Institutional Repository for UA. In this resource one can find electronic theses and dissertations (2009 onward) and faculty publications. The Institutional Repository accepts faculty and student research publications for submission.


Amelia Gayle Gorgas Library

Amelia Gayle Gorgas Library is the main campus library supporting the teaching and research needs in humanities and social sciences, and houses government information, statistics, and data.

Located on the first level, the Gorgas Library Learning Commons provides students with computers equipped with the latest productivity and academic software used in classrooms and laboratories. The area provides space for students to study together for group projects or individually. In addition, students, faculty, and staff can ask for personal research assistance at the Information Desk located in the Commons area. Also located on this level is the Digital Humanities Center, a hi-tech environment for faculty and graduate students exploring the digital humanities; the Music Library with two recording booths; and Java City Café, a fun place to relax and meet friends.

The Circulation Desk, located on the second level, serves as the central check-out area for media production equipment, laptops, calculators, headphones, Oculus Rift, books, and other materials. Items requested through InterLibrary Loan can also be picked up at the Circulation Desk. Gorgas 205 (a large meeting room for University events), the Pearce Foyer (exhibition space), group study spaces, and the Sanford Media Center, a leading-edge facility for digital media production for students, are all located on the second level.

Special features in Gorgas Library include areas with designated noise levels, from silent to quiet talking; several types of seating and study accommodations, including group study rooms for collaborative assignments; designated study carrels for graduate students and faculty; additional computers with academic software on the third level; printers; and 3D printers. University Libraries partners with the University Writing Center which maintains a satellite center in Java City Café. Gorgas Library is located on the Quad opposite Denny Chimes.

Angelo Bruno Business Library

Angelo Bruno Business Library serves the business information needs of the campus and in particular the students, faculty, and staff of the Culverhouse College of Business and the Manderson Graduate School of Business. The library also houses the College’s Sloan Y. Bashinsky Sr. Computer Center. Bruno Library’s resources comprise a wide variety of scholarly and professional business databases, along with a significant collection of print and electronic books and journals. Library faculty
and staff offer users specialized information assistance and services, including individual and class instruction in library research and effective use of library databases. Special features include areas with designated noise levels, from silent to quiet talking; several types of seating and study accommodations, including group study rooms for collaborative assignments; and designated study space for graduate students. A wide range of software is offered on computers throughout the facility and on circulating laptops. The 64,000-square-foot facility is conveniently located on Stadium Drive within the Culverhouse complex.

McLure Education Library
McLure Education Library serves primarily the students, faculty, and staff of the College of Education and the Graduate School of Education. McLure Library includes the School Library and Curriculum Materials Center on the lower level; reference and periodical areas and public computer areas on the main level; and study rooms, two presentation practice rooms, and a computer lab on the upper level. The main collection of the library comprises scholarly and professional books and journals related to education (including sports and physical education). The School Library collection contains over 25,000 trade books for preschool through young adult readers. The Curriculum Materials Center holds approximately 10,000 items, including K-12 textbooks, curriculum guides, supplemental classroom materials, and educational media including CDs, DVDs, kits, games, and other items. McLure is located on University Boulevard.

Eric and Sara Rodgers Library for Science and Engineering
Eric and Sara Rodgers Library for Science and Engineering serves students, faculty, and staff, in the sciences, engineering, and nursing programs. Rodgers Library offers a 3D studio and other Makerspace resources, seven group study rooms, and equipment and special spaces for students to prepare, practice, and record presentations. The library is equipped with a generous number of computer workstations offering a wide range of productivity software, including specialized software for use in science and engineering. Rodgers Library is open 24 hours daily from Sunday through Thursday during portions of the semesters, giving students more opportunities to learn, study, and do research. Rodgers Library is located immediately south of Shelby Hall and the Science and Engineering Complex, north of the Biology building, and one building west of the Campus Drive Parking Deck.

Special Collections
Special Collections is comprised of the W.S. Hoole Library and the A.S. Williams III Americana Collection. Hoole contains rare and unique materials dealing with U.S. history with a focus on Southern history and culture and Alabama history and culture. Areas of concentration include the exploration and settlement of territory in the Gulf of Mexico; the Civil War and Reconstruction; slavery, abolition, and emancipation; the economic and racial history of the New South; and the Civil Rights movement. Hoole has more than 40,000 volumes of rare books and incunabula, serials, and newspapers; about 4,000 manuscript collections, over 2,000 maps, including several hundred from the 16th, 17th, and 18th centuries, several hundred thousand photographs, and nearly a million University records. Extensive digital collections including several hundred thousand images are accessible through Hoole’s home page. The A.S. Williams Collection includes an additional 20,000 volumes, hundreds of maps, and an extensive collection of manuscripts and historical documents pertaining to the history and culture of the South, particularly the Civil War. The Civil War materials in both Hoole and Williams document the war from the perspectives and observations of participants in the Union and the Confederacy, and include several hundred Confederate imprints. Hoole Library is located on the second floor of Mary Harmon Bryant Hall and the Williams Collection is located on the third floor of Gorgas Library.

Additional Libraries
Under separate administration are the Health Sciences Library in the University Medical Center, the Bounds Law Library in the Law Center, and the Map Library in Farrah Hall.

The University of Alabama has an academic membership in the Association of Research Libraries, a selective group of institutions emphasizing research and graduate instruction at the doctoral level and supporting large, comprehensive collections of library materials. The University Libraries system also holds memberships in the Center for Research Libraries, the Association of Southeastern Research Libraries, the Southeastern Library Network, the Coalition for Networked Information, and the Network of Alabama Academic Libraries.

Military Programs
General
Army or Air Force ROTC scholarships and other financial assistance may be available to qualified students who plan to be enrolled for at least two years. Interested students may obtain information about current programs from one of the following ROTC offices: The University of Alabama, Professor of Military Science, Box 870260, Tuscaloosa, AL 35487-0260; or Air Force ROTC Detachment 10, The University of Alabama, Box 870258, Tuscaloosa, AL 35487-0258.

Air Force ROTC
An Air Force officer’s commission is available to graduate students through the Air Force ROTC Two-Year Program. If other qualifications are met, a student with at least two full years of full-time coursework remaining (in either graduate studies or a combination of undergraduate and graduate courses) can apply for entry into the Professional Officer Course (POC).

Applicants must favorably complete the Air Force Officer Qualifying Test, pass a medical physical, pass a physical fitness test and have at least a 2.0 GPA. Students selected to enter the cadet corps will be scheduled for a summer field training encampment prior to entry into the POC. Field training camps are conducted at Air Force bases throughout the United States. Successful completion of field training qualifies the student to enter the POC. The student then completes the last two academic years of graduate and/or undergraduate studies, taking one 3-hour Air Force studies (AFS) class and a leadership laboratory each semester in order to gain an officer’s commission upon completion of studies. Cadets in the POC are paid a $350–$400 stipend per month during the academic year and may be eligible for academic scholarships. To apply, contact The University of Alabama, AFROTC DETO10, Box 870258, Tuscaloosa, AL 35487-0258, or call 205-348-5900 prior to planned entry into Air Force ROTC.

Required Air Force ROTC courses for the Two-Year Program are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AFS 350</td>
<td>USAF Leadership Studies</td>
<td>4</td>
</tr>
<tr>
<td>AFS 301</td>
<td>and Leadership Laboratory</td>
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</tr>
<tr>
<td>AFS 360</td>
<td>USAF Leadership Studies</td>
<td>4</td>
</tr>
<tr>
<td>AFS 302</td>
<td>and Leadership Laboratory</td>
<td></td>
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</tbody>
</table>
Disability documentation can be submitted via one of the following routes:

1. Providing appropriate documentation of the disability to ODS.
2. Formally requesting accommodations by meeting with an ODS accommodations specialist.
3. Meeting with each of his/her/their professors to present a formal ODS accommodation letter and to discuss the implementation of accommodations.

Office of Disability Services
The Office of Disability Services (ODS) is the central contact point for UA students with academic disabilities. ODS works with faculty and other members of the University community to provide individualized academic accommodations and support services while promoting student responsibility and self-advocacy. It is the student’s responsibility to make known a need for academic accommodations and services by (1) providing appropriate documentation of the disability to ODS, (2) formally requesting accommodations by meeting with an ODS accommodations specialist, and (3) meeting with each of his/her/their professors to present a formal ODS accommodation letter and to discuss the implementation of accommodations.

Disability documentation can be submitted via one of the following routes:

Office of Information Technology
The Office of Information Technology (OIT) provides state-of-the-art technology services to The University of Alabama community. Faculty, staff, and students can turn to the OIT for access to and assistance with email, websites, network, and much more. Visit http://oit.ua.edu for a complete overview of the Office of Information Technology services.

Internet
Wireless internet service is available in all buildings and residences on campus. Students, faculty and staff should use the eduroam wireless network. Students should connect with their crimson email address and myBama password. Additional information and connection instructions are available at oit.ua.edu/wifi.

Software
OIT offers a variety of free software packages to UA students. Box unlimited cloud storage, Microsoft Office 365, Qualtrics, and others can be downloaded at oit.ua.edu/software.

Security
All UA students are required to use DUO two-factor authentication to protect myBama and Crimson mail accounts.

Research
OIT offers high-performance computing platforms to students and graduate students at UA. Learn more at https://oit.ua.edu/service/research.
Research Agencies

Oak Ridge Associated Universities

Since 1946, students and faculty of The University of Alabama have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 96 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE) that the DOE facility ORAU operates, undergraduates, graduates, postgraduates, and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines, including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs. ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scientist Program, and various services to chief research officers. For more information about ORAU and its programs, visit the ORAU home page.

The University of Alabama’s rich environment for research involves an array of Centers and Institutes, many of which offer opportunities for graduate student engagement. For a full list, please see http://ovpred.ua.edu/research-institutes/.

Student Health Center and Pharmacy (SHC)

The University of Alabama provides high-quality and easily accessible health care for its students through the University of Alabama Student Health Center and Pharmacy (SHC). Located at the corner of Peter Bryce Boulevard and 4th Street East and adjacent to the UA tennis courts, the SHC is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). The SHC can meet most ambulatory medical needs of UA students, including women’s health, psychiatry, ADD/ADHD, medical nutrition therapy, and allergy/immunization services as well as international-travel medical evaluations. We provide referral services for other medical services when needed. For convenience, students may make certain SHC appointments through our Patient Portal accessible through their MyBama account. Those requiring appointments with our specialty services should call the appointment line, 205-348-2778.

For University-required immunizations for all entering students, refer to www.shc.ua.edu/immunizations; these can also be obtained at the SHC. For more general information, visit www.shc.ua.edu or call 205-348-6262.

For students who need to purchase health insurance, information regarding this can be found at www.uhcsr.com/ua; or by calling 205-348-4086.

Tuition and Other Expenses

For a complete list of current tuition costs and an estimated student budget for the current year, visit studentaccounts.ua.edu/cost; contact The University of Alabama, Student Account Services, Box 870120, Tuscaloosa, AL 35487-0120; or call 205-348-5350. The main office is located in 105 Student Services Center.

College/course fees will vary depending on the student’s actual course enrollment. College/course fees are listed online with applicable courses in the Web Schedule of Classes for the applicable term after logging into the MyBama account. To see the college fee rates per college, visit studentaccounts.ua.edu/course-fee-rates-by-college.

Application Fees

A nonrefundable application fee must accompany each new application for admission before it will be processed. The application fee for U.S. citizens and permanent residents is $65; for international applicants the fee is $80. Credit card payments may be made with online applications at the Graduate School’s website. After admission, no fee will be assessed for subsequent applications requesting a change of program area, change of degree objective within the program of study, or change of status from non-degree to a degree program. If a student applies but does not enroll within 12 months of the requested entrance date, a new application and an accompanying appropriate fee must be submitted.

Auditing courses

Auditing a course does not affect the rate charged for the course.

Status as an Alabama Resident

The University’s policy on residency can be found in the In-state Residency section of the University Registrar’s website.

Any questions regarding residency should be directed to the Office of the University Registrar, 206 Student Services Center, Box 870134, Tuscaloosa, AL 35487-0134 or 205-348-2020.

Alabama resident status should not be confused with “residency” requirements for completion of doctoral degrees. Please refer to those degrees’ respective sections of the Catalog for information on residency requirements for degree purposes.

General Payment Information

Students are expected to meet all financial obligations to the University by specified due dates in order to maintain their enrollment. Payment in full or Payment Plan participation is required for a student to maintain each semester’s registration. Students who have not completed payment for a term before the bill date of the next term will lose their ability to register for subsequent terms.

Students will be notified via their @crimson email when a student account bill is available to review and pay. No paper bills will be mailed. Students will log in via their myBama account to view their account activity and make payment. Instructions for making payments can be found at Make a Payment or by viewing our How to Videos.

For important dates and more information see studentaccounts.ua.edu.
Veterans Services

The Office of Veteran and Military Affairs provides assistance to veterans, reservists, service persons, and eligible dependents. The office processes all certifications that must be filed with the Department of Veteran and Military Affairs before educational benefits can be received. Students must register with the Office of Veteran and Military Affairs each semester to begin receiving or to continue receiving benefits. In addition to helping students apply for benefits and complete VA certifications, the Office of Veteran and Military Affairs provides academic, personal, and financial referrals to students in VA programs. VA-sponsored work-study programs and tutoring are available to those who qualify. Students eligible for veterans benefits include VEAP veterans, reservists and veterans on the "New GI Bill," disabled veterans, dependents of persons who have total and permanent service-connected disabilities, and dependents of persons whose deaths were service-connected.

Information about services, application procedures, and compliance with VA requirements is available at the Office of Veteran and Military Affairs, Houser Hall, Ste. 3000, or by contacting The University of Alabama, Office of Veteran and Military Affairs, Box 870251, Tuscaloosa, AL 35487-0251; 205-348-0983.

Graduate Non-Standard Terms For Federal VA Certification Purposes

The VA instructs institutions to enter the training time (full, ¾, etc.) in the TT/FT box for the enrollment period based on the school’s academic policy when submitting the federal VA certification for graduate level terms. The VA also depends on the institutional determination of what is considered full time in these cases. The VA has an undergraduate matrix for students that is used for non-standard terms. However, this matrix does not adequately apply to graduate students in a fair and equitable manner when graduate students take courses in non-standard terms due to the weight of semester hours being affected by the number of hours the institution considers full time for graduate level coursework as compared to the undergraduate equivalent (12 hrs for UG = FT vs. 9 hrs for GR = FT). Furthermore, the academic policy of UA does not dive deeper into the individual parts of term in order to apply the academic policy appropriately and in an equitable manner as compared to the undergraduate counterpart and due to the way the federal VA requires institutions to certify benefits to the VA.

To bring clarity and equity to this situation, the Office of Veteran & Military Affairs has established the following policy when certifying graduate students in non-standard terms that takes the academic policy of what the institution considers full time and allocates the policy’s equivalent to the individual parts of the term when certifying benefits to the VA and is publishing this certification policy guidance to bring the institution into federal compliance by having this information published in UA’s catalog. Otherwise, graduate students using benefits would be unfairly subjected to the lesser-weighted undergraduate hours.

Below is UA’s determination for VA purposes of how the academic policy for full-time status would apply to VA students for determining rate of pursuit for VA purposes:

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GRADUATE POLICY FOR FULL-TIME STATUS WITHIN ANY SEMESTER = 9 HRS

VA NON-STANDARD SUMMER SCHEDULE EXAMPLE:
MAY INTERIM: 3 HRS
SUM I: 3 HRS
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Withdrawal From the University

It is the student’s responsibility to officially withdraw from the University or from an individual course in accordance with University regulations. The Withdrawals and Leave of Absence (p. 31) section of the Undergraduate Catalog has the necessary instructions. Please visit https://studentaccounts.ua.edu/withdrawal-from-the-university/ for more information about the financial impacts of withdrawing, including information on how federal financial aid, loans, and scholarships may be affected.

Workshop for New Graduate Teaching Assistants

Each August, the Graduate School hosts a workshop for all new graduate teaching assistants (GTAs). The program is mandatory for all new GTAs, both U.S. and international.

At the workshop for New GTAs, faculty and staff recognized for their superior teaching provide formal presentations on topics such as syllabus and course preparation, teaching with technology, leading group discussions, lab sessions, and important policies and legal issues for GTAs and professors alike.

 Experienced GTAs recognized for superior teaching in their respective colleges lead the second day of sessions at the workshop. These “Graduate Teaching Fellows” videotape new GTAs who have each prepared a short presentation. Each GTA receives both written and oral analyses of teaching strengths and areas for improvement. The new GTAs then have the opportunity to analyze videos that show some of the most frequently occurring problems in the classroom. The Fellows engage the new GTAs in discussing important University policies such as services for students with disabilities, harassment, academic misconduct, academic grievances, and the confidentiality of student records.

All GTAs who are non-native speakers of English must also successfully complete the International Teaching Assistant Program (ITAP), conducted by the University’s English Language Institute, before they will be allowed to teach.

College of Arts and Sciences

The College is committed to leadership in pedagogical innovation and the use of technology to further student learning. It values the traditional residential campus and is dedicated to providing an array of stimulating learning communities where students may grow personally
and intellectually. The discovery and sharing of knowledge is at the heart of our enterprise. The College is committed to leadership in the creation, dissemination, and application of knowledge and the preparation of future scholars. It accomplishes this by maintaining and enhancing both its nationally competitive faculty and its nationally ranked graduate and undergraduate programs.

Learning and quality-of-life are interrelated. As the state’s largest liberal arts college, the College of Arts and Sciences is central to the cultural, intellectual, and social life on campus and in the community, state, and region. It contributes fundamentally to the economic development of the state through teaching, creative activity, research, and outreach.

The College holds to the principle that knowledge must serve humanity and our environment, and it is dedicated to global responsibility, justice, and ethics.

Department of American Studies (AMS) (p. 50)
Department of Anthropology (ANT) (p. 55)
Department of Art and Art History (ART and ARH) (p. 68)
Department of Biological Sciences (BSC) (p. 78)
Department of Chemistry and Biochemistry (CH) (p. 93)
Department of Communicative Disorders (CD) (p. 102)
Department of Criminology Criminal Justice (CJ) (p. 107)
Department of English (EN) (p. 108)
Department of Gender and Race Studies (GRS) (p. 127)
Department of Geography (GY) (p. 131)
Department of Geological Sciences (GEO) (p. 137)
Department of History (HY) (p. 146)
Department of Mathematics (MATH) (p. 157)
Department of Modern Languages and Classics (GN, ROFR, ROML, ROSP) (p. 171)
School of Music (MUS) (p. 206)
Department of Physics and Astronomy (PH) (p. 216)
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**Department of American Studies (AMS)**

- Major
  - American Studies (MA) (p. 53)

**AMS500 Internship**

Hours 1-3

An internship opportunity that combines independent study and practical field work focusing on a particular problem or topic related to American culture and experience. Recent examples include internships in museum management, historic preservation, archaeological research, television production, category fiction, promotion of academic programs, documentary television, academic public relations, with Alabama Heritage and Louisville magazines, and with the Paul Bryant Museum.

**AMS501 Black Intellectual Thought**

Hours 3

Graduate Standing. A graduate seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history, and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women’s studies, sociology, psychology and philosophy.

**AMS505 Directed Study**

Hours 1-3

*No description available*

**AMS506 Directed Study**

Hours 1-3

*No description available*

**AMS507 Landscapes of the South**

Hours 3

This seminar explores the cultural, social, and natural ecology of the Mississippi watershed from St. Louis to the Gulf Coast. This interdisciplinary American Studies course examines the river dubbed “the Body of the Nation,” its history, cultural geography, and geophysical ecology. Through readings in history, literary accounts, and artistic expressions, we explore effects of human interventions in nature and nature’s impact on the course of human events.

**AMS509 Memory, Identity and Politics: Gender, Race, and Class**

Hours 3

This interdisciplinary graduate seminar explores the ways in which memory and the past construct political identities and the interplay of race, class, gender, and ethnicity in its social construction through readings, discussion, and student research. Reading selections include core theoretical texts on memory studies and specific case studies on topics, including not but exclusive to the American Civil War memory, U.S. South, slavery, and Reconstruction. Issues and questions are: how memories are constructed, translated into identities and political action; bases of shared memories and contested memories; political memorialization and the effects of collective amnesia; and how “communities of memory” are developed, sustained, and dissolved.

Prerequisite(s): None

**AMS512 On The Road**

Hours 3

This course seeks to introduce the breadth and power of the travel culture that defines “America” and examines enduring features when writers take to the open road in America.
AMS515 Service Learning
Hours 3
Course examines immigrant journey and life in American South to gain an understanding of historical and contemporary issues through research and service.

AMS516 American Environmental Thought
Hours 3
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization. Using accounts from various regions, the course explores evolving conceptions of nature and justice, competing claims about race and class, and changing institutional responses and remedies to environmental degradation in the context of global change.

AMS520 Mark Twain’s America: America’s Mark Twain
Hours 3
This course begins with the premise that Mark Twain is alive and well. The course will balance consideration of the life, work, and times of America’s most celebrated author as well as his impact on popular culture to this day—from film adaptations of his work, to pop-culture references, to the traditions of American humor, to tourists abroad, etc. Students will examine Mark Twain as the “Lincoln of Our Literature” and as an American icon. The course will require careful consideration of the life and work of Samuel Clemens, the man who would later become Mark Twain, the most famous American of the late nineteenth and early twentieth century. We will read and discuss several of his works in context with his times, and we will explore how his legacy affects our own. Why was he so popular, and why does he remain so popular? Students will encounter a wide range of intellectual and emotional interactions with American culture through the mind of Mark Twain, and, likewise, filter much of American popular culture through the lens of the world he created and reported to the world in his literary output. Students will consider, in addition, their own relationship to Mark Twain’s America.

Prerequisite(s): Graduate admission.

AMS521 Writer & Artist in America
Hours 3
This course offers a comparative examination of responses by 20th century literary and visual artists to perceived social crises and challenges to American cultural values, such as sex in the early 20th century American city, working class struggles during the Great Depression, issues of atomic anxiety during the early years of the Cold War, the ethical dilemmas of the Vietnam War, the perils of the AIDS/HIV crisis, and the flourishing of contemporary consumer culture. The course also introduces several important movements in twentieth century American arts and letters, including Naturalism, Modernism, Social Realism, the Beat movement, Social Surrealism, and Postmodernism.

AMS522 Popular Culture in America
Hours 3
Survey and analysis of 20th century US popular culture including social context and how it has reflected and shaped American society, including gender, race, class and region.

AMS523 The Roots of American Music
Hours 3
This class surveys American music from ragtime, blues, and hillbilly to Broadway, Hollywood musicals, and swing jazz. Our focus will be on commercial mainstreams and democratic audiences – how selling sound led to different identities being expressed through taste and style. Race, gender, class, sexuality, age, technology, and the music business will all factor as we move from blackface minstrelsy in the 1800s to World War II. We will listen closely to several songs each week, connecting music to larger themes through primary and secondary sources, regular writing, and in-class discussion.

AMS529 American between the Wars
Hours 3
Explores first two decades of America’s "Modern Times" (1919-1941) when Americans redefined themselves and their society.

AMS530 Special Topics
Hours 3
Selected American topics in American Studies offered by AMS faculty members or Americanists from related departments. Recent example: Women in America.

AMS531 Studies In Pop Culture
Hours 3
Research and discussion of selected topics in American popular culture: literature, music, network broadcasting, advertising, film, and drama.

AMS532 Studies In The Arts
Hours 3
Research and discussion of selected topics in literature, film, painting, photography, and architecture, and the role of the artist in 19th- and 20th-century America.

AMS534 Studies In The South
Hours 3
Research and discussion of selected topics in Southern culture: ethnicity, regional consciousness, women in the South, and change and continuity.

AMS535 Studies In Gender
Hours 3
Research and discussion of selected topics in ethnicity, class, and gender in America.

AMS536 Studies Social Experience
Hours 3
Research and discussion of selected topics in the American social experience.

AMS537 Studies In The West
Hours 3
Research and discussion of selected topics in the American West as period, place, experience, and imagination: discovery and exploration; physical and cultural transformation; and value, ethic, and ideal.

AMS538 African American Culture
Hours 3
Research and discussion of selected topics in African-American culture.
AMSS39 Urban Spaces  
Hours 3

This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present. Course readings include classical scholars in urbanism and urban design. Contemporary urban environmental histories explore population shifts and land use along the urban gradient from the suburbs to urban centers, with attention to water, sewer, and transportation infrastructure, pollution, and urban sprawl.

AMSS40 Black Feminisms  
Hours 3

This graduate course provides a capacious overview of Black Feminist theory, social criticism, literature, art and politics. Over the next fifteen weeks students will read key essays/texts of “classic” black feminism; chart its origins in black women’s political activism and experiences; assess new “schools” of thought like hip-hop feminism and pleasure politics; trace the influence of black feminism in black queer studies and critical race theory; and debate the viability of black feminism/black feminist scholars in the 21st century academy.

Prerequisite(s): None

AMSS41 Silences Broken, Silences Kept: Black Sexuality Studies in Historical Perspective  
Hours 3

In her 1999 survey on African American’s women’s and gender history, Michele Mitchell voiced her “lurking suspicions that certain subjects [within African American History] are avoided because they have been deemed either dangerous or damaging.” Chief among these are the sexual acts and identities of people of African descent in North America. Using her framework of “silences broken and silences kept,” this course examines historically minded interdisciplinary scholarship about black sexual intimacies, marriage, reproduction, family, sexual identities and gender politics. Although this course primarily focuses on the history of black sexuality, it touches on a host of other subjects (including race, gender, class, popular culture, etc.) and disciplines (sociology, political science, literary studies, cultural studies, performance studies, etc.). This course analyzes dominant methodologies/preoccupations of studies about black sexuality as well as areas of burgeoning scholarly interest.

Prerequisite(s): None

AMSS45 The "Good War"  
Hours 3

A topical examination of the American Experience at home and abroad, 1941-1945.

AMSS46 Gender and Environment  
Hours 3

This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform. Texts include histories of environmental concepts and reform campaigns, broadly conceived, including slave narratives, accounts of experiences in the women’s club movement, the conservation movement, and Progressive Era occupational and public health reform, along with more well-known twentieth century nature writers, contemporary scholars, and activists.

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AMSS555 Fictions of American Identity  
Hours 3

Examination of American culture from before the Civil War to post Civil Rights Movement studying representations of the American experience.

AMSS570 Natives and Newcomers: Cross-Cultural Encounters in Early America  
Hours 3

The colonization efforts of European empires in the early modern period led to cross-cultural encounters between societies previously unfamiliar with one another, introducing each of them to unfamiliar ideas, cultures, political systems, and landscapes and changing their lives in profound ways. This course explores the complex interactions between Native American, European, and African peoples in North America, with a particular focus on the region that is currently the Southeastern United States. Such cross-cultural contact could result in valuable collaborations, deep misunderstandings, violence, or contests for power. How were interactions with unfamiliar peoples described and understood by Native Americans, Europeans, and African peoples in North America? How did the circulation of peoples and cultures shape ideas about ‘America’ and ‘Americaness’? Is ‘encounter’ a single event, or a long process? This course meets a college core writing requirement; a demonstration of writing proficiency is required for a passing grade in this course.

AMSS585 American Experience to 1865  
Hours 3

An exploration of the formative years of the American cultural experience, from early European encounters with the New World to the attainment of continental nationhood. The course will draw upon insights from many disciplines and will include several kinds of cultural evidence (for example: literature, art, and photography; religious, political, and social thought and behavior; and economic, technological, and geographical development) as well as consideration of recent major synthetic works of cultural scholarship. Topics covered include the growth of colonial societies; the Revolutionary movement and the political foundations of the American Republic; the Market Revolution and the rise of middle-class culture; the antebellum South and the emerging West; and the origins and evolution of American cultural diversity. Offered fall semester.

AMSS586 American Exper Since 1865  
Hours 3

An exploration of the development of the American cultural experience since 1865, focusing on the major material forces and intellectual currents that helped shape American attitudes, assumptions, institutions, behavior, and values. The course will draw upon insights from many disciplines and will include several kinds of cultural evidence (for example: literature, art, and photography; religious, political, and social thought and behavior; and economic, technological, and geographical development) as well as consideration of recent major synthetic works of cultural scholarship. Topics addressed and readings assigned are chosen to enlarge awareness of the transformation of America to a diverse, metropolitan, industrial society. These will include the relationship between nature and the city; the industrial revolution and changes in the workplace; immigration; changing class and gender relationships; the rise of leisure; and the development and triumph of modern corporate/consumer culture. Offered spring semester.
should submit an acceptable score on either the general test of the school's minimum requirements as stated in this catalog. Each applicant must first apply for admission to the Graduate School and satisfy the requirements.

A student interested in pursuing a master's degree in American Studies should satisfy the admission requirements. The student should refer to the Graduate Handbook of the Department of American Studies for additional information.

**General Degree Requirements**

Students should refer to the Graduate Handbook of the Department of American Studies for additional information.

**Plan I.** The student earns a minimum of 24 semester hours of credit in coursework and completes a thesis. A minimum of 6 semester hours of thesis research is required.

**Plan II.** The student earns a minimum of 30 semester hours of credit in coursework.

Under either plan, the student's program must include the following:

- **19 hours** of American Studies courses:
  - AMS 585 American Experience to 1865 3
  - AMS 586 American Exper Since 1865 3
  - AMS 595 Ams Colloquium: Res & Methods 3
  - AMS 596 Ams Colloquium: Scholarly Writ 3
  - AMS 597 Topics Amer Cult Analys 1
  - Select 6 hours of seminars 6

**Total Hours** 19

A student may take up to 9 hours outside the department, choosing a single disciplinary or cognate area (literature, history, broadcast and film, women's studies, journalism, the South, etc.) or two minor areas. Most students, however, choose a focus within American Studies.

**Comprehensive Examinations**

Under either Plan I or Plan II, each candidate for the master of arts degree in American Studies will write a comprehensive examination designed to reflect the individual's program. The comprehensive examination is intended as an integrating, synthesizing experience that enables the student to draw together the various component areas of his or her course of study. The results of the examination should attest to the student's acquisition of an interdisciplinary perspective, as well as an understanding of American culture as a whole. See the American Studies Graduate Handbook for details on the comprehensive examinations.

**Master's Degrees**

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master's degree:
Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in
A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

1. a written and/or oral examination based on the content of the degree program;
2. a thesis and final oral defense;
3. a course requiring interpretation and integration of information from previous courses;
4. a research paper, a "policy and practice" paper, or equivalent experience;
5. a public performance or exhibition along with a contextualizing paper; and/or
6. a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
 Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Department of Anthropology (ANT)

**Anthropology (MA) (p. 59)**
**Anthropology (PhD) (p. 62)**
**Museum Studies Certificate (p. 67)**

[object Object]
Prerequisites: Twelve hours in anthropology and graduate standing, or permission of the instructor.

**ANT501 Anthropol Linguistics**
Hours 3
The scientific study of natural language; phonology and grammar, lexicon, and meaning; and the role of linguistics in anthropological research. Offered once a year.
ANT502 Gender Ethnicity & Health  
Hours 3  
No description available

ANT505 Culture, Mind, and Behavior  
Hours 3  
The cultural and linguistic basis of cognitive organization, local systems of folk classification, and the collection and analysis of data of shared cultural and social information. Offered according to demand.

ANT508 Ancient Mexican Civilization  
Hours 3  
A survey of the origin and development of Mesoamerican civilizations. Offered according to demand.

ANT509 Ancient Maya Civilizations  
Hours 3  
Ancient Maya civilizations in Mexico and Central America from the earliest inhabitants until the Spanish Conquest.

ANT510 Ethnography of Communication  
Hours 3  
Students in this course will learn to use the concepts and methods of ethnography of communication by developing and carrying out a research project on language and social interaction. You will learn how social interaction is organized, how to document and study it, and how to address such evidence to to anthropological and applied problems. Graduate students will produce a research report worthy of submission to a research conference of their professional scholarly organization. All students will finish the course with a critical and sophisticated understanding of how social interaction works in a variety of contexts.

ANT511 Culture Health & Healing  
Hours 3  
Provides the student with an overview of health, illness, and healing as they vary between and within cultural systems.

ANT512 Peoples Of Europe  
Hours 3  
A survey of the standards, customs, and beliefs that typify European cultures. Offered according to demand.

ANT513 Peoples Of Latin Amer  
Hours 3  
A survey of the standards, customs, and beliefs that typify Latin American cultures. Offered according to demand.

ANT518 Dev Non-West Cultures  
Hours 3  
A theoretical and descriptive study of social change and development in non-Western societies. Major emphasis will be on the effect of change on indigenous institutions. Offered according to demand.

ANT519 Myth Ritual And Magic  
Hours 3  
A survey of the anthropological literature on religion, including such topics as myth, ritual, magic, witchcraft, totemism, shamanism, and trance states. Offered according to demand.

ANT521 Ethnography  
Hours 3  
Ethnography is a hallmark of anthropology. It is at once a theoretical approach, set of methods, and style of writing. This course highlights ethnographic theory, methods for collecting ethnographic material, and techniques for writing about culture by reading exemplary texts, discussing key concepts, and practicing various methods. Each student will develop an ethnographic project that involves fieldwork, data analysis, and writing.

ANT526 Arch East North Amer  
Hours 3  
An examination of the origin and development of pre-Columbian and early historic cultures of eastern North America. Offered according to demand.

ANT528 Analytical Archaeology  
Hours 3  
Contemporary issues in concept formation, theory construction, methods, and techniques. Offered according to demand.

ANT538 Anthropology of Art  
Hours 3  
The course views the art that societies past and present produce; it explores culture, creativity, and human beings’ distinctive compulsion to make decorative objects.  
Prerequisite(s): Graduate standing; or permission of instructor

ANT541 Documenting Justice I  
Hours 3  
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. First semester of a two semester course.

ANT542 Documenting Justice II  
Hours 3  
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

ANT543 Adv Field Archaeology  
Hours 3  
Directed field study in the excavation and analysis of archaeological deposits. Each student must design and conduct a research project, then adequately report the results. Off campus.

ANT544 Anthropology And Cemeteries  
Hours 3  
No description available

ANT545 Historical Archaeology  
Hours 3  
12 hours of anthropology or permission of instructor; graduate standing  
This course combines the methods used in historical archaeology with a basic survey of the archaeological record of the historic period of North America.
ANT550 Probs In Anthropology
Hours 3
Devoted to issues not covered in other courses. Offered according to demand.

ANT562 Ancient Andean Civilizations
Hours 3
The Andes is a region of geographic and environmental extremes that witnessed the early rise of complex societies long before the Inca Empire. In this course, we examine the prehispanic cultures that resided in this region—from the peopling of South America to the aftermath of Spanish Conquest.

ANT563 Anthropology of Landscape and Ecology
Hours 3
This course explores anthropological theories and methods of space, place, and environment. It concentrates on ethnographic and archaeological discussions of landscape and ecology. Anthropologists who study landscape and ecology focus on the cultural practices through which communities in the past and present produce the socially meaningful sites, shrines, and physical features of their environment, while also taking into account how the environment influences people’s social actions and underlies people’s deepest cultural values. To understand a landscape or an ecology, then, is to examine the interrelation of various social and environmental, cultural and material phenomena. The course also introduces the field and laboratory methods that anthropologists employ to apply their theoretical perspectives on landscape and ecology.

ANT568 Ceramics for the Archaeologist
Hours 3
Ceramics are the most ubiquitous and variable materials on many archaeological sites and, as such, they offer archaeologists a vast amount of information about the past. In this class, we approach ceramics from the perspective of research questions, and investigate how analytical techniques can help address them. The class also has a large practical component. Students will conduct analyses on collections and present their findings at the end of the class. This course is meant to provide a framework for developing hypotheses, methods and skills directly applicable to senior projects, MA theses, and Ph.D. dissertations.
Prerequisite(s): Graduate students must have collections in hand at the start of the course.

ANT571 Fossil Man P Evolution
Hours 3
A survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution.

ANT573 Human Osteology
Hours 4
A detailed introduction to human osteology, emphasizing the identification of fragmentary remains and the criteria for determination of age, sex, and race. Offered according to demand.

ANT574 Neuroanthropology
Hours 3
This course provides an introduction to evolutionary and biocultural approaches within anthropology to the central and peripheral nervous systems and their interconnections. Topics include the evolution of the brain; how culture and social structure shape the brain, its development, and its activity; and anthropological perspectives on connections among culture, behavior, brain, mind, and body.

ANT575 Biology, Culture, & Evolution
Hours 3
An introduction to the biocultural and evolutionary bases of human adaptability.

ANT578 Anthro of Human Development
Hours 3
Health culturally competent socialized adults and mature physical forms arise from a developmental process with evolutionary, biological, social and cultural dimensions. We survey child/human development from an anthropological perspective, considering interactons across levels of analysis from genes to culture.

ANT579 Human Paepathology
Hours 3
Course investigates skeletal pathology and trauma. Topics included: 1. Understanding disease processes, 2. Distinguishing accidental and violent trauma on bone, 3. Recognizing the following conditions in skeletal remains: congenital anomalies, circulatory disorders, joint diseases, infectious diseases, metabolic diseases, skeletal dysplasias, neoplastic conditions, diseases of the dentition and other conditions. Students will inventory, evaluate and analyze sets of human skeletal remains for pathology and trauma and complete final reports on those remains.

ANT581 Anthropology is Elementary: Teaching Anthropology in Primary and Secondary Settings
Hours 3
This course is an introduction to teaching anthropology at the primary and secondary levels. It is a service-learning course, which means that all students will serve as instructors in a local anthropology course offered in the Tuscaloosa area. This course will expose students to applied anthropology through teaching the anthropological perspective via an activity-based four-subfield curriculum in conjunction with local elementary schools, after-school programs, or similar community partners. These programs will be taught by teams, and each student will be responsible for attending weekly course meetings, developing curricular material and implementing it in a classroom setting, and co-teaching with other students.

ANT598 Individ Investigations
Hours 1-9
Directed nonthesis research in archaeology, cultural anthropology, anthropological linguistics, or physical anthropology.

ANT599 Thesis Research
Hours 1-6
No description available
ANT600 Research Methods
Hours 3
Prepares students in the scientific method and research skills used in anthropology. Instruction emphasizes grant writing, study design, interview and observation techniques, and the collection, management, and analysis of data using a statistical software package.

ANT601 Advanced Research Methods
Hours 3
This seminar is designed to refine doctoral students' background in qualitative and quantitative research methods necessary for dissertation research. Emphasis is placed on the integration of qualitative and quantitative methods for students doing ethnographic research, and techniques of numerical induction for archaeology students.

ANT603 Theory & Method In Archaeology
Hours 3
An examination of contemporary archaeological theory and method and their development during the 19th and 20th centuries.

ANT604 Sem Archaeology Complex Society
Hours 3
Contemporary issues in the archaeology of complex societies, including different aspects of complexity and attempts to classify and measure them.

ANT610 Theory Method Medical Anthropl
Hours 3
A detailed introduction to theory and method in medical anthropology. Approaches include adaptation, biocultural, psychoanalytic, stress, and other theoretical perspectives.
Prerequisite(s): ANT 511 and ANT 600

ANT612 Sem Biocultural Anthropology
Hours 3
A biocultural overview of the anthropology of health. Topics include biological and cultural approaches to various dimensions of human health and illness.

ANT620 Prehistory Of North America
Hours 3
An in-depth examination of the prehistory of the various areas of North America, focusing on environmental and cultural influences that affected ways of life.

ANT621 Native Americans Ethnohy Persp
Hours 3
An examination of Indians and Eskimos of North America during the historical period, focusing on the impact of European contact on culture and society.

ANT625 Survey History Archaeology
Hours 3
A critical examination of archaeology's history as a science, with emphasis on intellectual trends, changes in method and theory, and recent developments. Offered once a year.

ANT640 Landmarks Anthropologcl Resear
Hours 3
This course examines seminal works in the history of anthropology. Works may include books or smaller publications that exemplify important developments in theory and method.

ANT641 Culture
Hours 3
This seminar reviews past and contemporary theories and approaches used in cultural anthropology.

ANT667 Meth Prehistoric Iconography
Hours 3
An exploration of anthropological and art-historical concepts as applied to the problem of meaning in prehistoric representational art.

ANT670 Prin Physical Anthropology
Hours 3
A series of seminars and lectures designed to refine the student's knowledge of research on nonhuman primates, fossil hominids, population genetics, and human variation and adaptation. Offered once a year.

ANT698 Individual Investigations
Hours 1-9
Directed dissertation research in archaeology, cultural anthropology, anthropological linguistics, or physical anthropology.

ANT699 Dissertation Research
Hours 1-15
No description available

MUSM500 Museum Internship
Hours 3
This course is normally taken near the end of the museum studies program after the majority of other required courses have been completed. For the internship, students will develop a project proposal for a 40-hour unpaid internship at a host museum of their choice. Once the proposal is approved by the MUSM Internship Coordinator and MUSM Chair, students will complete the internship at their chosen host museum and be evaluated by their host museum supervisor and MUSM Internship Coordinator.

Prerequisite(s): Enrollment in the MUSM program, completion of at least two of the required courses (MUSM 501, MUSM 502, and MUSM 503), Academic Advisor’s approval of the internship proposal, and MUSM Administrator’s approval of the internship proposal.
MUSM501 Museum Administration
Hours 3
This course utilizes case studies, analysis of topical issues, and problem-based learning exercises to explore many facets of museum studies relevant to administration and management in not-for-profit museums of various types (art, history, natural history, or science/technology). Intended for students considering a career in arts administration, or museums specifically, this course provides an inter-disciplinary introduction to museum work. Students will gain an understanding of the history and philosophy of museums, the role of museums in society, collecting policies, governance, strategic planning, budgeting, grant-writing, museum ethics, multicultural issues, and legal issues in museums. Behind-the-scenes visits to museums and guest speakers will be included.

MUSM502 Museum Collections Management
Hours 3
This course considers the intellectual, physical, legal, financial, social, and ethical challenges of preserving and providing access to museum collections. Through lectures, readings, hands-on activities, and field trips students explore the theory and practice of collections management and learn how to maximize available resources for collections care in any museum regardless of size.
Prerequisite(s): This course has no prerequisites. Students are expected only to have an interest in the course topic and content, a willingness to be active participants in the learning community that the course is designed to create, and the time and energy to complete the required in-class and out-of-class learning activities and assignments.

MUSM503 Museum Education and Exhibition
Hours 3
This course provides an overview of museum exhibition and education initiatives; two of the most important functions of all museums. The emphasis of the first part of the course will be on critiquing, designing and presenting museum exhibitions to various audiences. As exhibition and education are intricately linked in museums, the education component of this course will explore various ways to engage the visiting public through museum displays as well as other public outreach programs. Students should be prepared to not only design appealing museums displays but also successfully export their content in various formats to various publics that include schoolchildren.
Prerequisite(s): This course has no prerequisites. Students are expected only to have an interest in the course topic and content, a willingness to be active participants in the learning community that the course is designed to create, and the time and energy to complete the required in-class and out-of-class learning activities and assignments.

Faculty
Chair
Ian Brown
Graduate Program Director
Jason DeCaro
Professors
Elliot Blair
John Blitz
Ian Brown
Jason DeCaro
William Dressler
Marysia Galbraith
Keith Jacobi
Lisa LeCount
Christopher Lynn
David Meek
Kathryn Oths
Sonya Pritzker
Alexandre Tokovinine
Lesley Jo Weaver

Anthropology, MA
Admission Requirements
Students seeking MA or PhD degrees in anthropology at The University of Alabama must satisfy departmental entrance and examination requirements. An acceptable score on the Graduate Record Examination general test is required for MA admission, and for students applying to the PhD program without the MA degree in hand.

See the Admission Criteria section of this catalog for more information.

General Degree Requirements
For the MA degree, each student must complete a minimum of 30 credit hours in courses numbered 500 or above. Without special prior approval of the student’s advisor, the student’s committee, and the director of graduate studies, neither ANT 598 Individ Investigations nor ANT 599 Thesis Research will count toward the 30 hours.

All MA graduate students must successfully complete a core program consisting of one graduate course in at least three of the four fields of anthropology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANT 641 Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 501 Linguistic Anth</td>
<td>3</td>
</tr>
<tr>
<td>ANT 670 Prin Biological Anthropology</td>
<td>3</td>
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<tr>
<td>ANT 625 Survey History Archaeology</td>
<td>3</td>
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<tr>
<td>ANT 600 Research Methods</td>
<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Additional requirements include a comprehensive examination to be taken following the second semester in residence and reading knowledge of a foreign language or demonstration of a research skill such as statistical analysis. Thesis and non-thesis options are available and the specific requirements for these options are published on the department’s website. The MA degree will be conferred by The University of Alabama.

For the PhD program each student must complete 48 credit hours in courses numbered 500 or above. No more than 24 hours can be transferred from an MA program to the PhD program. A reading facility in one foreign language appropriate to the research topic must be demonstrated. Knowledge of quantitative methods and other advanced research skills must also be obtained through the required seminar ANT 601 Advanced Research Methods. Additional requirements include two core courses, each of which is specific to the doctoral tracks.
Plan of Study

Early in the graduate program, each student confers with a faculty adviser or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study is prepared and submitted to the Graduate School.

The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

If later there are changes in the Plan of Study, the student simply submits an amended Plan to the Graduate School at the time that the form for Admission to Candidacy for Doctoral Degree is submitted.

A preliminary examination must be passed before undertaking dissertation research. Six to 12 months of ethnographic or archaeological field work is expected, followed by analysis and the writing of the dissertation. The dissertation itself will then be presented and defended before the student’s committee and other interested faculty.

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate
School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of
graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master’s degrees.

Anthropology, Ph.D.
The PhD curriculum builds on the strengths of the master's degree program by concentrating on two emphases:

1. the archaeology of complex societies, pertaining to the emergence and spread of early civilizations in the Americas, and
2. medical anthropology, the study of the influence of social relations and culture on psychological and biological adaptation.

The doctoral program is designed to prepare graduates with the skills needed to move easily into either academic or non-academic positions.

Admission Requirements
Students seeking PhD degrees in anthropology at The University of Alabama must satisfy departmental entrance and examination requirements. Specifically, a combined score of at least 300 on the Graduate Record Examination general test, with a writing component score of 4.0 or higher, is required for students applying to the PhD program without the MA degree in hand at the time of admission. Also, an undergraduate and/or graduate record of coursework and research experiences demonstrating adequate preparation for doctoral level study in anthropology is required, including coursework in at least three subdisciplines of anthropology, and a grade point average of at least 3.0 on a 4.0 scale. At the discretion of the faculty, specific coursework requirements may be waived at the time of admission if a plan has been developed to address any deficits prior to matriculation.

General Degree Requirements
For the MA degree, each student must complete a minimum of 30 credit hours in courses numbered 500 or above. Without special prior approval of the student's advisor, the student’s committee, and the director of graduate studies, neither ANT 598 Individ Investigations nor ANT 599 Thesis Research will count toward the 30 hours.

All MA graduate students must successfully complete a core program consisting of one graduate course in at least three of the four fields of anthropology:

### Plan of Study
Early in the graduate program, each student consults with a faculty adviser or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study is prepared and submitted to the Graduate School.

The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

If there are changes in the Plan of Study, the student simply submits an amended Plan to the Graduate School at the time that the form for Admission to Candidacy for Doctoral Degree is submitted.

A preliminary examination must be passed before undertaking dissertation research. Six to 12 months of ethnographic or archaeological field work is expected, followed by analysis and the writing of the dissertation. The dissertation itself will then be presented and defended before the student’s committee and other interested faculty.

Doctoral Degrees
The University offers several types of doctorates, each of which is described below.
The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.
Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department.
and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student's department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation--typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.
The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the <em>University Academic Calendar)</em></td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)*</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)*</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

**Article-Style Dissertations**

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.
All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Museum Studies Certificate
The University of Alabama is pleased to offer an interdisciplinary graduate certificate in museum studies intended for graduate students who are either majoring in a traditional museum content discipline such as art history, history, anthropology, American studies, geology, or biology, or students who have already completed graduate degrees in these disciplines. Students who complete the certificate program will be qualified for a variety of entry-level professional positions in museums in areas such as museum education, collections management, exhibit planning and development, and museum administration. Generally defined as the study of all aspects of the theory and practice of museum operations, museum studies includes the history and background of museums, their role in society, and specific systems for research, conservation, education, organization, and administration. This certificate program combines education in traditional academic subjects together with coursework in museum theory and practices, and practical museum field experience.

Admission Criteria
An applicant whose credentials meet the following minimum requirements may be considered for regular, unconditional admission to the museum studies certificate program:

- GPA: The applicant must have a GPA of 3.0 overall, 3.0 in the last 60 hours in a degree program, or 3.0 for a completed graduate degree program.
- Admission test scores: The applicant must meet the minimum requirements of the Graduate School.

A student may be admitted conditionally if he/she falls below the expected criteria.

Application
Consistent with the Graduate School’s requirements, an applicant to the museum students certificate program must have completed a bachelor’s degree and must be currently enrolled in a master’s or doctoral program of study at The University of Alabama, or have completed a graduate degree. Applicants not currently enrolled in a graduate program of study at The University of Alabama must submit required materials, including a statement of purpose and two letters of recommendation, to the Museum Studies Internship Coordinator.

Curriculum
The certificate program requires the completion of 15 credit hours, including three core courses. The remaining six hours will come from a list of electives pre-approved by the Museum Studies Advisory Board, allowing students the flexibility to tailor their program of study to their specific career goals.

<table>
<thead>
<tr>
<th>Museum Studies Certificate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSM 500 Museum Internship (Museum Internship)</td>
<td>3</td>
</tr>
<tr>
<td>MUSM 501 Museum Administration</td>
<td>3</td>
</tr>
<tr>
<td>MUSM 502 or Museum Collections Management</td>
<td>3</td>
</tr>
<tr>
<td>MUSM 503 Museum Education &amp; Exhibition</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective 1</td>
<td>3</td>
</tr>
</tbody>
</table>
Department of Art and Art History (ART and ARH)

- Majors
  - Art History (MA) (p. 70)
  - Studio Art (MA) (p. 73)
  - Studio Art (MFA) (p. 75)

Art History Courses

ARH501 Interdisciplinary Seminar
Hours 3

The primary goal of this course is to explore contemporary visual culture through theory, history, and studio practice.

ARH502 Paul R. Jones Collection of American Art K-12 Program
Hours 3

This program is designed to offer graduate and undergraduate students the opportunity to conduct interdisciplinary community engagement activities via with the College of Arts and Sciences’s Paul R. Jones Collection of American Art (PRJCAA). Central to this course is student use of the PRJCAA to engage K-12 pupils and their teachers in the Tuscaloosa area. Students will learn about the PRJCAA including its content, mission, and goals. They will also begin investigating foundational readings in community engagement scholarship. To join this class, students must complete an application and interview process. This course does not meet at regularly scheduled class times during the day and much of course itself is conducted off-site at a school within the Tuscaloosa City School system. Students must undergo a mandatory (state required) background check before starting the program.

Prerequisite(s): By Instructor Permission Only

ARH550 Literature Of Art
Hours 3

Principles and methodology of the discipline as described in the writing of its founders and chief makers; bibliographical research method and mastery. Required of all art history MA students.

ARH555 Asian Seminar
Hours 3

No description available

ARH556 The Arts Of Buddhism
Hours 3

Students will learn the major artistic movements and styles inherent in the artistic products of India, China, Japan, Southeast Asia, Tibet and Nepal.

ARH560 Medieval Seminar
Hours 3

This course considers a broad range of issues, objects, and themes relevant to the study of art and architecture in medieval Europe. Class sessions will be organized around readings selected to introduce existing scholarship and methods while stimulating new questions for future research.

ARH565 Topis in Renaissance Art/Renaissance Seminar
Hours 3

This graduate-level seminar will explore a variety of critical themes and issues in the study of Early Modern/Renaissance art.

ARH570 Baroque & Rococo Seminar
Hours 3

No description available

ARH575 Nineteenth Cent Seminar
Hours 3

No description available

ARH577 American Art Seminar
Hours 3

Graduate level seminar exploring a topic of historical American Art.

ARH580 Twentieth Century Seminar
Hours 3

No description available

ARH598 Independent Study
Hours 3

No description available

ARH599 Thesis Research
Hours 1-12

No description available

Studio Art Courses

ART501 Interdisciplinary Studio
Hours 3

The primary goal of this course is to explore contemporary visual culture through theory, history, and studio practice.

ART502 Paul R. Jones Collection of American Art K-12 Program
Hours 3

Prerequisites: Twelve undergraduate hours in the specific studio field requested, review of portfolio, and permission of the department chairperson. This course is open only to graduate students who are not enrolled in a graduate program in the Department of Art.

ART506 Independent Studies
Hours 1-6

Students may make proposals for projects not taught in the regular curriculum. These must be approved by a faculty sponsor and the chairperson of the department.

ART508 Special Projects
Hours 3

Special projects course titles include Alternative Photographic Process, Photo-based Printmaking, Water Media on Paper, Figurative Modeling and Sculpture, Experimental Drawing and The Photographic Artist’s Book.
ART510 Advanced Drawing Seminar
Hours 3
The focus of this course will be the study and production of drawings as an activity that documents our memories, examines and explains the world around us, transforms our perceptions of time and space, and helps us invent new ways of seeing and thinking.

ART511 Graduate Seminar
Hours 3
A critical examination of contemporary issues, philosophies, criteria, and ideas in art.

ART512 Ceramics
Hours 2-6
The ceramics program has a fully equipped facility with a complete inventory of clay and glaze materials. Facilities include equipment for clay mixing and preparation; workstations for forming and throwing; gas, wood fire, raku, and electric kilns; and materials for experimental kiln construction. Personal instruction is given in all forming techniques, glaze calculations, and firings. Students are encouraged to experiment with the medium and explore new processes. Emphasis is placed on the student's development of concepts and forms.

ART516 Painting
Hours 2-6
The primary goal of the painting program is to enhance the student's ability in conceiving of a strong personal vision. The program defines painting as a complex and vital art form that exists in a state of constant flux, a tradition that is both mired in history and capable of regularly redefining itself. It equally embraces students who define painting as a practice that goes far beyond the brush, and those who employ more traditional methodologies.

ART518 Photography
Hours 2-6
Photography is viewed as a means of personal expression and exploration, emphasizing development of the student's vision. Instruction is individually tailored and, although the facilities are designed for black and white printing, the exploration of alternative applications is encouraged. Graduate students are expected to increase their knowledge of the history of photography and contemporary art, and participate in teaching undergraduates. Facilities include a film developing area, two darkrooms, and a critique space. Computers are accessed through the digital media area.

ART520 Printmaking
Hours 2-6
Graduate printmaking is conducted in a workshop situation, including group critiques and technical demonstrations. The program philosophy embraces a broad spectrum of activities relating to the idea of the multiple and the history of printed material. Students are expected to master traditional techniques and encouraged to work in an interdisciplinary manner, exploring the boundaries of the media area. The facility comprises equipment for intaglio and relief printing, stone and plate lithography, screen printing, and photo-based/digital printmaking.

ART522 Sculpture
Hours 3-6
The sculpture program allows students to work with an extensive range of media and processes while emphasizing conceptual development and refined technical ability. Sculpture encompasses traditional media, methods, and processes as well as technologies that can be adapted to sculptural activities, idioms, and forms. Facilities include a full wood shop, metal fabrication shop, foundry, critique/installation room, and graduate studio space.

ART525 Graduate Critiques
Hours 3
This course examines the studio practice through critical discourse, defending and discussing aesthetic philosophy and its application to research in the visual arts.

ART528 Advanced Digital Photography (Graduate Level)
Hours 3
The course will expand upon digital skills for the photographer / digital artist presented in Art 328. This course presents technical, aesthetic and conceptual concerns at an advanced level. Content will be delivered through lecture, demonstrations, workshops, and experiential learning. The primary emphasis is on student-driven production of fully realized artworks. There will be regular critiques to facilitate the creative process. There will be a survey of contemporary photo / digital artists to stimulate ideas, discussion and practices across numerous conceptual themes. The semester will culminate in the production of a final portfolio and works presented for exhibition. Graduate students will be expected to create artworks at a higher level of sophistication. Further, they will be required to deliver content presentations to the class at level equivalent to course instruction. Finally, they will be expected to meet with professor regularly for in-depth discussions of course content and artistic production.
Prerequisite(s): ART 328

ART530 Problems and Techniques for Teaching Studio Foundations
Hours 3
Graduate students will acquire expertise with teaching concepts and techniques relative to studio foundations teaching.
Prerequisite(s): Graduate standing in Art or Art History

ART612 Ceramics
Hours 2-6
The ceramics program has a fully equipped facility with a complete inventory of clay and glaze materials. Facilities include equipment for clay mixing and preparation; workstations for forming and throwing; gas, wood fire, raku, and electric kilns; and materials for experimental kiln construction. Personal instruction is given in all forming techniques, glaze calculations, and firings. Students are encouraged to experiment with the medium and explore new processes. Emphasis is placed on the student's development of concepts and forms.
ART616 Painting  
Hours 2-6  
The primary goal of the painting program is to enhance the student's ability in conceiving of a strong personal vision. The program defines painting as a complex and vital art form that exists in a state of constant flux, a tradition that is both mired in history and capable of regularly redefining itself. It equally embraces students who define painting as a practice that goes far beyond the brush, and those who employ more traditional methodologies.

ART618 Photography  
Hours 2-6  
Photography is viewed as a means of personal expression and exploration, emphasizing development of the student’s vision. Instruction is individually tailored and, although the facilities are designed for black and white printing, the exploration of alternative applications is encouraged. Graduate students are expected to increase their knowledge of the history of photography and contemporary art, and participate in teaching undergraduates. Facilities include a film developing area, two darkrooms, and a critique space. Computers are accessed through the digital media area.

ART620 Printmaking  
Hours 2-6  
Graduate printmaking is conducted in a workshop situation, including group critiques and technical demonstrations. The program philosophy embraces a broad spectrum of activities relating to the idea of the multiple and the history of printed material. Students are expected to master traditional techniques and encouraged to work in an interdisciplinary manner, exploring the boundaries of the media area. The facility comprises equipment for intaglio and relief printing, stone and plate lithography, screen printing, and photo-based/digital printmaking.

ART622 Sculpture  
Hours 3-6  
The sculpture program allows students to work with an extensive range of media and processes while emphasizing conceptual development and refined technical ability. Sculpture encompasses traditional media, methods, and processes as well as technologies that can be adapted to sculptural activities, idioms, and forms. Facilities include a full wood shop, metal fabrication shop, foundry, critique/installation room, and graduate studio space.

ART625 Graduate Critiques  
Hours 3  
This course examines the studio practice through critical discourse, defending and discussing aesthetic philosophy and its application to research in the visual arts.

Faculty  
Chair  
Jason Guynes  
Professors  
Jason Guynes  
Craig Wedderspoon  
Assistant professors  
Jane Cassidy  
Wendy Castenell  
Jennifer Feltman  
Allison Grant  
Tanja Jones  
Matthew Mitros  
Bryce Speed  
Rachel Stephens  
Associate professors  
Lucy Curzon  
William Dooley  
Chris Jordan  
Sarah Marshall  
Peter Schulte  
Sky Shineman  
Clinical assistant professor  
Giang Pham

Art History, MA  
The MA degree in art history is offered jointly with the University of Alabama at Birmingham (UAB). This program prepares students for study at the doctoral level or to have a career in a museum or gallery, among other fields. Students take 24 hours of coursework (including 6 hours on the UAB campus) in Medieval, Early Modern (Renaissance and Baroque), Nineteenth-Century, American (including African American), and/or Modern and Contemporary art history followed by a comprehensive exam. They then write and defend a thesis (6 hours) that shows not only their ability to define an art history problem or context, but also mastery of the literature relevant to the subject chosen.

Degree Requirements  
Students enrolled in the MA art history program may choose one of two study plans. Plan 1 requires completion of 24 semester-hours in art history, of which six hours may be taken in a related field. Courses are grouped into six general areas: Medieval, Early Modern (Renaissance and Baroque), American (includes African American), 19th-century, and Modern/Contemporary. Students take courses in at least two of the six areas, as well as ARH 550 Literature Of Art. Students registered on The University of Alabama campus must take at least six hours of coursework at The University of Alabama at Birmingham.

Further requirements include:

a. a reading knowledge of French, German, or another approved language, tested by examination;  
b. a general written examination in art history prepared and read by the joint faculty; and  
c. a written thesis (minimum of 6 hours).

Students successfully completing Plan 1 will receive the MA degree in art history.

During the first 24 semester-hours of coursework, Plan 2 students will take 21 semester-hours of ARH classes, including ARH 550 Literature Of Art and 18 hours that focus on two of the six general areas outlined in Plan 1. Like in Plan 1, six of these hours must be at UAB. In addition, Plan 2 students must take three semester-hours of MUSM 501 Museum Administration, a language proficiency test, and a comprehensive exam. After the comprehensive exam, they will focus on the development of professional skills related to museum studies, including museum
administration, collection management, and museum education. In the last six semester-hours of the degree, Plan 2 students will complete MUSM 502 Museum Collections Management or MUSM 503 Museum Education & Exhibition and MUSM 500 Museum Internship (Internship). Plan 2 students will then make a capstone presentation to the faculty (summary and analysis of major project undertaken as part of internship). Students successfully completing the Plan 2 program will receive the MA degree in art history and a graduate certificate in museum studies. Applicants to Plan 2 must meet all the admission requirements for the MA program in art history as well as those for the Graduate Certificate Program in Museum Studies (https://museumstudies.as.ua.edu/).

Whether Plan 1 or Plan 2, the MA degree must be completed within a six-year period—the Graduate School's time limit for all master's degrees—to avoid loss of graduate credit for completed coursework.

**Proposed Course of Study for MA Art History—Plan II (30 hours)**

### Year I

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 550</td>
<td>3</td>
</tr>
<tr>
<td>6 hours ARH electives</td>
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</tr>
<tr>
<td><strong>Total Hours:</strong> 9</td>
<td></td>
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</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSM 501</td>
<td>3</td>
</tr>
<tr>
<td>ARH elective (or MUSM 502 or 503)</td>
<td>3</td>
</tr>
<tr>
<td>Comprehensive exam</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours:</strong> 6</td>
<td></td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSM 502 or 503</td>
<td>3</td>
</tr>
<tr>
<td>Capstone presentation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours:</strong> 6</td>
<td></td>
</tr>
</tbody>
</table>

### Program Requirements

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

### Residency Requirements

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

### Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

### Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

### Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.
A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The
comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree

Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Faculty

Chair
Jason Guynes

Assistant professors
Wendy Castenell
Jennifer Feltman
Tanja Jones
Rachel Stephens

Associate professor
Lucy Curzon

Studio Art, MA

Admission Requirements

Applicants to all studio art programs must satisfy admission policies established by The Graduate School of The University of Alabama, listed earlier in this catalog. The Graduate Record Exam (GRE) and Miller Analog Test (MAT) are not required for studio art applicants. Applications are submitted online through The Graduate School website. All studio art students enter the graduate program at the MA level. Strong applicants to the program usually hold a BFA in Studio Art or BA in studio art with a related minor. However, applicants with different academic backgrounds will be considered. Admissions decisions are based on the strength of the applicant’s portfolio and written statements, and their potential for growth and achievement in the program. Prospective graduate students should have a “B” average in art classes. Conditional acceptance into the program is possible. Conditional students are granted full admission upon completion of any deficiencies. Residency is required of all studio art students.

Applicants should choose one of the following areas for focused coursework: ceramics, painting, photography, printmaking, or sculpture. Faculty also specialize in drawing, installation, and digital media, offering students the opportunity to work with a broad range of materials and processes. Each studio program applicant must submit a comprehensive portfolio of recent work. This portfolio should include a minimum of 20 works of art in the proposed area of focus. Please contact the department directly for directions on preparing application materials.

Campus visits are highly recommended. Applicants may visit graduate classes, tour studio facilities, and meet faculty and current graduate students. The department webpage offers more information about department resources and faculty activity. Prospective students are encouraged to contact faculty who specialize in their areas of interest.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

All new studio art students enter the MA program. The MA degree in studio art requires completion of a minimum of 30 semester hours of graduate work, including at least 6 hours in art history, 15 hours in a major studio field, 3 hours of graduate seminar, 3 hours of graduate critiques, and 3 hours of art studio electives. A thesis exhibition, written statement, and an oral review are required for successful completion of the program. The degree program must be completed within six years.

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the
comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate...
Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Studio Art, MFA

Admission Requirements

Applicants to all graduate programs must satisfy admission policies established by the Graduate School of The University of Alabama, listed earlier in this catalog. The Graduate Record Exam (GRE) and Miller Analogy Test (MAT) are not required for studio art applicants. Applications are submitted online through the Graduate School website. All studio art students enter the graduate program at the MA level. Strong applicants to the program usually hold a BFA in studio art or BA in studio art with a related minor. However, applicants with different academic backgrounds will be considered. Admissions decisions are based on the strength of the applicant’s portfolio and written statements, and their potential for growth and achievement in the program. Prospective graduate students should have a "B" average in art classes. Conditional acceptance into the program is possible. Conditional students are granted full admission upon completion of any deficiencies. Residency is required of all studio art students.

Applicants should choose one of the following areas for focused coursework: ceramics, painting, photography, printmaking, or sculpture. Faculty also specialize in drawing, installation, and digital media, offering students the opportunity to work with a broad range of materials and...
processes. Each studio program applicant must submit a comprehensive portfolio of recent work. This portfolio should include a minimum of 20 works of art in the proposed area of focus. Please contact the department directly for directions on preparing application materials.

Campus visits are highly recommended. Applicants may visit graduate classes, tour studio facilities, and meet faculty and current graduate students. The department webpage offers more information about department resources and faculty activity. Prospective students are encouraged to contact faculty who specialize in their areas of interest.

See the Admission Criteria section of this catalog for more information.

**Degree Requirements**

Admission to the master of fine arts program is by recommendation of a faculty review committee, which meets at the time of the candidate’s MA thesis exhibition. The committee will recommend that the candidate continue within the MFA program or finalize studies at the University with a completed MA degree.

The MFA degree requires the completion of a minimum of 60 semester hours of graduate work, including at least 9 hours of art history, 30 hours in a major studio area, 6 hours Graduate Seminar, 6 hours Graduate Critiques, and 9 hours in art history or art studio electives. The degree must be completed within six years of entering the studio graduate program. A graduate student may select a minor studio concentration of study or choose a variety of graduate-level classes offered within the art department or approved graduate-level elective courses. Candidacy for the MFA degree is based on the delivery of a public lecture by the candidate addressing his or her research clearly and coherently. The candidate must demonstrate proficiency in addition to displaying personal direction in his or her chosen area of study.

A thesis exhibition is presented at the end of the candidate’s final term. During the exhibition, an oral examination is conducted by the student's faculty committee. At that time, the candidate defends their exhibition and written statement.

Review procedure. A graduate review committee is established by each graduate student. The committee consists of no fewer than four faculty members but may have an unlimited number of approved graduate faculty. Required appointees to this committee include the department chairperson (director of graduate studies), the major area professor, an art historian, and another art studio faculty member. The chairperson of the committee is the student’s major area professor.

**Master's Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

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A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

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400-Level Courses
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Thesis
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All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

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Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

• a written and/or oral examination based on the content of the degree program;
• a thesis and final oral defense;
• a course requiring interpretation and integration of information from previous courses;
• a research paper, a "policy and practice" paper, or equivalent experience;
• a public performance or exhibition along with a contextualizing paper; and/or
• a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master's Degree**

Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

**Department of Biological Sciences (BSC)**

Research facilities include: Molecular Biology Core Facility, Steven Johnson Molecular Systematics Lab, Optical Analysis Facility, Aquatic Chemistry Laboratory, Animal Care Facility, as well as extensive museum collections and databases in the Scientific Collections Facility.

Local field sites include: J. Nicholene Bishop (Tanglewood) Biological Station, The University of Alabama Arboretum, Dauphin Island Sea Lab, Point Aux Pins Marsh Lab, and Talladega National Forest.

• Majors
  • Biology (MS) (p. 83)
  • Marine Science (MS) (p. 90)
  • Biology (PhD) (p. 85)

/object Object

**Biological Sciences**

Prerequisite: Graduate standing.

Courses at the 500 level are not open to students who have received credit for the same courses at the 400 level.

BSC500 Vertebrate Funct Morphol
Hours 4
Morphology of animals, primarily vertebrates, with emphasis on functional aspects of anatomy. Laboratory deals mainly with comparative anatomy of the vertebrates. Offered fall semester.

BSC503 Intro Bsc Instruction
Hours 2
Students in the MS program who are not teaching assistants may receive up to 2 hours' credit. Students in the PhD program who are not teaching assistants may receive up to 4 hours' credit provided they teach two different laboratories. Offered fall and spring semesters.

BSC504 Intro Bsc Instruction
Hours 2
Students in the MS program who are not teaching assistants may receive up to 2 hours' credit. Students in the PhD program who are not teaching assistants may receive up to 4 hours' credit provided they teach two different laboratories. Offered fall and spring semesters.

BSC506 Intro Research Biol Sci
Hours 1
Surveys research programs in biological sciences. Offered fall and spring semesters.

BSC507 Research Tech In By
Hours 1-6
Individualized instruction and the application of research techniques to specific problems for graduate students in the department. Offered fall and spring semesters.

BSC512 Limnology
Hours 3
A study of freshwater environments and organisms living in lakes, ponds, and streams. Offered fall semester.

BSC515 Wetland Plant Ecology
Hours 3
An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat, and plant zonation, and the role of plants in ecosystem function.

BSC517 Environmental Modeling
Hours 3
An integrated survey of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving. Offered alternate fall semesters.

BSC520 Principles Of Systematics
Hours 4
An introduction to the principles, methods and applications of systematic zoology and the zoological classifications. Offered alternate fall semesters.
BSC522 Biology of Cancer
Hours 3
This course is an introduction to the biological principals that explain the origins, development, pathology, and treatment of cancer. Students will work in teams assigned to particular types of cancer and will investigate what is known on various topics as related to that type of cancer.
Prerequisite(s): Must be enrolled in university graduate program.

BSC524 Human Physiology
Hours 3
Examines the cardiovascular, digestive, endocrine, muscular, neural, renal, reproductive and respiratory systems. Offered spring semesters.

BSC525 Human Physiology Lab
Hours 2
Centers on principles of physiology and instrumentation for physiology. Offered alternate fall semesters.
Prerequisite(s): None. Corequisite: BSC 524.

BSC528 Biology Of Fishes
Hours 4
A survey of the structure, function, ecology, and classification of fishes. Offered alternate spring semesters.

BSC529 Pathophysiology
Hours 3
The biological basis of disease at the cellular, organ and system level with emphasis on applications for health professionals.

BSC531 Pathogenic Microbiology
Hours 3
A study of microorganisms related to health and disease. Offered spring semester.

BSC532 Pathogenic Microbiol Lab
Hours 3
Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered alternate spring semesters.

BSC534 Plant Systematics
Hours 4
Characteristics and distribution of the major families of vascular plants, and practice in the collection and identification of flowering plants. One weekend field trip is required. Offered alternate spring semesters.

BSC535 Immunology
Hours 4
Thorough exploration of various aspects of modern immunology at the molecular and cellular levels. Offered fall semester.

BSC539 Bch/Molecular Biology Lab
Hours 3
A survey of the common analytical techniques used in molecular biology. Topics include protein purification and characterization, enzymology, DNA isolation and restriction endonuclease mapping, and gene cloning. Offered spring semester.

BSC541 Developmental Biology
Hours 3
The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development. Offered spring semester.

BSC542 Integrated Genomics
Hours 4
This advanced undergraduate/graduate level course will introduce you the major technologies and concepts in genomics, familiarize you with some publicly available of bioinformatics databases and tools, contribute to the public knowledge base through your own bioinformatics and literature based research, and give you hands-on experience with genomics wet lab methods. This course will also provide information on careers in biotechnology.

BSC544 General Virology
Hours 3
The molecular biology of bacterial, animal, and plant virus replication, including the biophysical, biochemical, and biological properties of virus particles. Offered spring semester.

BSC548 Animal Behavior
Hours 3
This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology and economics. However there will be a historical undercurrent which will illustrate the roots of this truly interdisciplinary field.

BSC549 Endocrinology
Hours 3
A detailed examination of the vertebrate endocrine system that uses a comparative approach to explore intricate relationships between the brain, endocrine glans, hormones and target organs.

BSC550 Fundamentals of Biochemistry
Hours 3
A one-semester survey of protein structure, enzyme kinetics, bioenergetics, and metabolism and its regulation. Offered fall and spring semesters.

BSC551 Bch/Molecular Biology II
Hours 3
A one-semester survey of the synthesis, processing, and degradation of DNA, RNA, and protein and the regulation of these processes. Offered spring semester.

BSC556 Microbial Ecology
Hours 3
A study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions. Offered alternate fall semesters.

BSC560 Human Developmental Biology
Hours 4
Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis and functional development. Offered irregularly.
**BSC564 Biology Of Algae**  
Hours 4  
Freshwater and marine algae and their structure, development, taxonomy, and distribution. Offered irregularly.

**BSC565 Principles Of Toxicology**  
Hours 3  
No description available

Prerequisite(s): BSC 300

**BSC569 Histology Of Vertebrates**  
Hours 4  
No description available

**BSC570 Principles of Population Genetics**  
Hours 3  
Population genetics is the study of how evolutionary forces (genetic drift, natural selection, mutation, and gene flow) affect allele and genotype frequencies in populations. Population genetics is a field with a rich theoretical history that has allowed scientists to make predictions about these evolutionary processes. With the advent of massive amounts of genetic data in many species, it is now possible to test these predictions, and a solid foundation in theory, its expectations, and assumptions is crucial for interpreting results from genetic analyses. Students should expect to learn how evolutionary forces acting on individuals affect patterns of inheritance and ultimately drive the changes we see between species.

Prerequisite(s): Must be enrolled in university graduate program.

**BSC571 Plant Physiology**  
Hours 3  
Plant physiology is a survey course covering all aspects of plant transport, translocation of nutrients, plant biochemistry, plant metabolism and plant growth and development considered in depth.

**BSC572 Mycology**  
Hours 4  
An introduction to the fungi and their biology, including aspects of their structure and function, taxonomy, genetics, and ecology.

**BSC573 Bioinformatics**  
Hours 3  
Bioinformatics BSC 473/573 is a lecture course that covers the tools and approaches necessary to perform computational analysis of large datasets. We will focus on analyzing high-throughput sequencing data although the tools we will learn are applicable to a wide range of modern biological questions. Specific topics include operating in a UNIX/bash shell environment, scripting, genome assembly, alignment, and algorithms. BSC 473/573 is a writing course and writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): Graduate standing

**BSC575 General Entomology**  
Hours 4  
A survey of the structure, function, classification, and habits of insects. Offered irregularly.

**BSC576 Aquatic Insects**  
Hours 4  
A survey of aquatic insects, with emphasis on their identification, life histories, and ecology. Offered alternate spring semesters.

**BSC580 Plant Ecology**  
Hours 3  
This course will examine the ecology of plants at different levels: individual, population and community.

Prerequisite(s): BSC 385

**BSC581 Foundations in Advanced Biostatistics with Applications to R**  
Hours 3  
This course provides an overview to common statistical methods used in biological research, using case studies from biology, ecology, and natural resources management. The overarching objective of this course is to give students the ability to use and effectively evaluate biological data. We will demonstrate and conduct statistical analyses with an emphasis on utilizing the statistical computing language, R, to apply statistical concepts to biological and ecological data.

Prerequisite(s): Graduate standing or permission of the instructor.

**BSC582 Conservation Biology**  
Hours 3  
A thorough examination of the principles of conservation biology. Offered alternate spring semesters.

**BSC583 Evolution**  
Hours 3  
No description available

**BSC584 Aquatic Biology Seminar**  
Hours 1  
Review and discussion of current topics in aquatic biology. Offered spring semester.

**BSC586 Stable Isotope Ecology**  
Hours 4  
An advanced 4 credit hour course on application of stable isotopes in ecological research, incorporating lectures, discussion about published data, and hands-on field and laboratory experience.

Prerequisite(s): None

**BSC587 Biogeography**  
Hours 3  
Examination of the ecological and historical factors influencing the geographical distribution of plants and animals.

Prerequisite(s): Undergraduate or graduate-level course in ecology.

**BSC590 Stream Ecology**  
Hours 4  
A thorough study of the structural (physical and biological) and functional (energy flow, nutrient cycling, community structure) attributes characteristic of stream and river ecosystems. Offered alternate spring semesters.
BSC593 Cell Cycle Regulation
Hours 3
In-depth review and discussion of recent scientific research literature dealing with mechanisms of eukaryotic cell cycle regulation and their significance in human cancers. Provides a foundation for further studies in the cell cycle field, which impacts many areas of cell, molecular, and developmental biology.

BSC594 Signal Transduction Neuroby
Hours 3
Seminar on current topics related to signal transduction, as it pertains to the molecular basis of neurobiology and development. Offered alternate fall semesters.

BSC595 Advanced Cell Biology
Hours 3
Presents the structures, functions, and relationships of cellular organelles and the cytoskeleton. Offered fall semester.

BSC596 Bioremediation
Hours 3
Study of the biological degradation of toxic chemicals in the environment. Offered irregularly.

BSC598 Non-Thesis Research
Hours 1-15
Non-Thesis Research.

BSC599 Thesis Research
Hours 1-15
Thesis Research.

BSC601 Biological Sciences Seminar
Hours 1
This course will introduce graduate students to a diversity of current topics and expand their knowledge of the methodology and application of research and research methods in the biological sciences. In addition to attending seminars by invited speakers and departmental faculty members, the course will also provide graduate students with instruction and practice in the oral presentation of research data.

BSC602 Adv Molecular Res Sem
Hours 1
Student presentations of research background and current results. Students may enroll each semester. Offered fall and spring semesters.

BSC604 Scientific Writing and Data Presentation
Hours 3
This course will teach students writing skills for grant proposal and research paper preparation as well as other data presentation techniques in the biological sciences.
Prerequisite(s): Graduate standing or permission of the instructor.

BSC605 Ecology Systematics Sem
Hours 1
Seminar.

BSC606 Adv Ecology & System Sem
Hours 1
Students attend and participate in a one-hour weekly seminar and present a 45-minute seminar during the semester. The seminar presented should be a synthesis of research on a particular topic in ecology or systematics, requires a practice session, and includes written evaluations by the faculty. Offered fall and spring semesters.

BSC607 Adv Research Tech in By
Hours 1-6
Individualized instruction and the application of research techniques to specific problems at an advanced level for graduate students in the department. Offered fall and spring semesters.

BSC620 Molecular Systematics
Hours 4
Theory and methods of phylogenetic analyses using molecular sequence data. Students will be able to select appropriate loci for the desired level of phylogenetic analysis, align sequences, generate phylogenetic hypotheses with a variety of inference methods, generate and evaluate branch-support values, and infer evolutionary patterns from phylogenetic trees. Students will be able to critically evaluate phylogenetic methods and the support for conclusions reached in the phylogenetic literature for organisms across the Tree of Life.
Prerequisite(s): BSC 520

BSC635 Developmental Genetics
Hours 3
A course in the genetic and molecular mechanisms of development for graduate students. Offered alternate fall semesters.

BSC652 Community Ecology
Hours 3
Thorough investigation of theory and empirical studies of ecological communities (plant, animal, microbial), including methods, community structure, diversity, succession, links to ecosystem function, resource management. Offered alternate spring semesters.

BSC653 Ecosystem & Global Ecology
Hours 4
A comprehensive coverage of ecosystem concepts and processes at scales from local to the biosphere. This course encompasses the full range of biotic diversity and ecosystems.

BSC654 Sediment Biogeochemistry
Hours 3
An advanced 3 credit hour course on how processes occurring in the top few centimeters to meters of sediments influence processes at the local scale and global cycling of many elements.
Prerequisite(s): None

BSC656 Microscopical Techniques
Hours 4
An introduction to the methods and applications of electron microscopy in biological research, including techniques for preparation of biological specimens, operation of the transmission and scanning electron microscopes, and photography. Offered irregularly.
BSC666 Disease Models and Mechanisms
Hours 3
A graduate level seminar on current topics related to use of animal model systems, as they pertain to the molecular basis of human disease. This course is designed to expose students to recent research in a variety of diseases. The instructor and students will give lectures that provide a general survey of current disease research topics. During each class, a student will give an introduction on the particular disease being discussed that week. This introduction usually contains some basic information about the disease (e.g. symptoms, incidence rate, diagnosis and prognosis) as well as the known and unknown aspects of what causes the disease. Detailed student presentations will then follow on specific and recent literature within that topic with a focus on molecular mechanisms. This is designed to foster interactive class discussion and to strengthen the analytical and presentation skills of graduate students in cell and molecular biology. Emphasis on critical thinking and evaluation of scientific approaches and application of methods will be a major component of this course. In addition to the presentation of a disease topic and participation of the course in each class, as a final assignment, students will be asked to write a "News and Views" type "preview" article on a recent or in-press article related to human disease modeling. If demonstrating appropriate scholarly value, select articles might be revised under the supervision of the instructor and then submitted for publication to an appropriate journal, such as Disease Models and Mechanisms or the Journal of Neuroscience. Specific guidelines for this assignment are provided. Assessment of student progress in terms of pre-test/post-test, written critiques of presentations and writing assignments will be provided. Following each class, Dr. Caldwell will provide immediate feedback on their presentation and suggest areas for improvement. Outline of Course Topics: 1) the molecular basis of select diseases 2) strengths/weaknesses of specific animal model systems (worms, flies, mice, zebrafish) 3) role of genetic, cellular, and molecular processes in disease 4) application of model systems toward therapeutic development.
Prerequisite(s): Graduate Student Status

BSC675 Global Change Biology
Hours 3
Students will take a detailed look at climate change across a variety of scales (species to biomes) using primary literature sources. Each student will lead a discussion in an area of climate change of their choice (e.g. climate change leading to disease, climate change and biological feedbacks, alteration in climate and storm intensity, decline of amphibians); these topics need not be limited to biological subjects. Students will be expected to participate in critiques of primary literature, class discussions, and the development of an individual proposal (including preproposal, budgets, and panel discussions of funding).
Prerequisite(s): Must be enrolled in University Graduate Program.

BSC681 Topics in Drosophila Biology
Hours 1
This is a graduate level course on the current genetic research methods and technologies using Drosophila as a model system. The course covers topics including using Drosophila to model human disease, developmental biology, evolution and development, and ethics and professionalism in science.

BSC695 Spec Topics Biolog Sci
Hours 1-4
Courses with this number may address any biological topic not covered by existing courses. The credit hours and format are arranged as appropriate to each topic. The specific course title is added at the time the course is taught. Offered irregularly.

BSC696 Resident Study
Hours 2-6
Credit for the course is determined by the extent of the coursework. Offered fall and spring semesters.

BSC698 Res Not Rel Dissertation
Hours 1-15
Research Not Related to Dissertation.

BSC699 Dissertation Research
Hours 1-15
Dissertation Research.

Marine Science
Courses offered at DISL carry the same credit toward graduate degrees as those taught on The University of Alabama campus by the Department of Biological Sciences.

MS304 Marine Geology
Hours 4
Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

MS306 Marine Biology
Hours 4
Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

MS408 Marine Invertebrate Zoology
Hours 4
Comparative study of the major marine invertebrate phyla, protozoa through protochordates. The focus is on their morphology, physiology, ecology, and phylogenetic relationships.

MS419 Marine Ecology
Hours 4
Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems.

MS433 Coastal Zone Management
Hours 2
Review of ecological features, physical management policies for coastal communities, and a description of relevant federal and state programs.

MS448 Intro Oceanography
Hours 4
A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and their relation to biological systems.
MS452 Marine Vertebrate Zoology  
Hours 4  
Systematics, zoogeography, and ecology of marine vertebrates.

MS453 Marine Botany  
Hours 4  
Reproduction, taxonomy, systematics, distribution, and ecology of the major marine plant groups.

MS497 Special Topics  
Hours 1-4  
A marine science topic not covered in other courses. The credit hours and format are determined as appropriate to the topic. Offered according to demand and instructor availability.

Faculty  
Chair  
Janis M. O'Donnell  
Graduate Director  
John Yoder  
Academic Coordinator  
Katrina Ramonell

Biology, MS  
Admission Requirements  
Before entering graduate study in the biological sciences, the student is expected to have a substantial knowledge of chemistry, mathematics, and physics, and to have completed basic courses in the biological sciences with high standards of scholarship. In general, a curriculum equivalent to that required of undergraduate majors in the Department of Biological Sciences is expected. Students admitted without this background may be required to make up course deficiencies without receiving graduate credit.

Two types of admission to the graduate program in the Biology are possible: regular admission and conditional admission. In general, to be considered for regular admission, a student must have an overall GPA of 3.0 (based on a 4.0 system), including a 3.0 GPA for the last 60 hours attempted and a 3.0 average in all biological sciences courses attempted. A cumulative GRE score (verbal plus quantitative) of 300 or higher is required for regular admission to the Biology graduate program. Applicants are not required to take a GRE subject test. International applicants must earn a TOEFL iBT score of 80 (or equivalent IELTS score of 6.5). Students requiring financial support as graduate teaching assistants must have a TOEFL iBT speaking subtest of 21 or higher. The University of Alabama GRE/TOEFL code is 1830.

Consideration for conditional admission requires an overall GPA of 2.5 (based on a 4.0 system), including a 3.0 average for the last 60 hours attempted and a 3.0 average in all biological sciences courses attempted. A cumulative GRE score (verbal plus quantitative) of score of 300 or higher is required for regular admission. Each student admitted conditionally to the Biology graduate program must maintain a 3.0 average for the first 12 hours in the Department of Biological Sciences at UA. All hours taken in the semester in which the student reaches 12 hours will be considered, even if by so doing the total exceeds 12 hours. If this requirement is not met, the student will be automatically dismissed without appeal following the semester in which these 12 hours are earned, except in those cases that are obviously beyond the student's control.

See the Admission Criteria section of this catalog for more information.

Degree Requirements  
Students should refer to the Graduate Student Handbook of the Department of Biological Sciences for additional information.

Plan I and Plan II both are available for the MS degree. A student pursuing an MS degree under either plan is expected to submit a formal research proposal by his or her second semester in residence, and to take final written and oral examinations before the degree is granted. Plan I requires 24 hours of coursework and a formal thesis; Plan II requires 30 hours of coursework and a written research report approved by the student's graduate committee. A "B" average must be maintained in all coursework.

Additional information on the various degree programs is available on request from The University of Alabama, Department of Biological Sciences, Box 870344, Tuscaloosa, AL 35487-0344; or visit our website.

Master's Degrees  
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements  
Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements  
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit  
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.
Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department's transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the
Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Biology, Ph.D.
Admission Requirements
Before entering graduate study in the Biological Sciences, the student is expected to have a substantial knowledge of chemistry, mathematics, and physics, and to have completed basic courses in the biological sciences with high standards of scholarship. In general, a curriculum equivalent to that required of undergraduate majors in the Department of Biological Sciences is expected. Students admitted without this background may be required to make up course deficiencies without receiving graduate credit.

Two types of admission to the graduate program in the Biological Sciences are possible: regular admission and conditional admission.

In general, to be considered for regular admission, a student must have an overall GPA of 3.0 (based on a 4.0 system), including a 3.0 GPA for the last 60 hours attempted and a 3.0 average in all Biological Sciences courses attempted. A cumulative GRE score (verbal plus quantitative) of 300 or higher is required for regular admission to the Biological Sciences graduate program. Applicants are not required to take a GRE subject test. International applicants must earn a TOEFL IBT score of 80 (or equivalent IELTS score of 6.5). Students requiring financial support as graduate teaching assistants must have a TOEFL IBT speaking subtest of 21 or higher.

Consideration for conditional admission requires an overall GPA of 2.5 (based on a 4.0 system), including a 3.0 average for the last 60 hours attempted and a 3.0 average in all Biological Sciences courses attempted. Each student admitted conditionally to the Biological Sciences graduate program must maintain a 3.0 average for his or her first 12 hours in the Department of Biological Sciences at The University of Alabama. All hours taken in the semester in which the student reaches 12 hours will be considered, even if by so doing the total exceeds 12 hours. If this requirement is not met, the student will be automatically dismissed without appeal following the semester in which these 12 hours are earned, except in those cases that are obviously beyond the student’s control.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
A doctoral Plan of Study must be submitted to the Graduate School by the time the student completes 30 hours of UA and/or transfer for the doctorate. A minimum of 48 semester hours of graduate course credit is required for the PhD degree. A “B” average must be maintained in all coursework. Students also are required to take at least 24 hours in BSC 699 Dissertation Research. All requirements for the PhD must be completed within a period of seven years following admission to the
doctoral program. There is no general requirement for a foreign language, although individual graduate committees may require a language. A formal dissertation is required, in addition to preliminary written and oral examinations and a final oral examination.

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the preliminary (comprehensive) examination. See the online Graduate Catalog (p. 10) for details on the Plan of Study, Admission to Candidacy, and all other degree requirements.

Additional information on the various degree programs is available on request from The University of Alabama, Department of Biological Sciences, Box 870344, Tuscaloosa, AL 35487-0344; or visit our website.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no university-wide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN).

The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.
Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits
All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request
Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

• To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
• If the department head supports the petition, it is forwarded to the college dean.
• If the college dean supports the petition, it is sent to the graduate dean.
• If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
• If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after
• any foreign language/research skill requirements are met (PhD students only);
• two full years of graduate study are completed; and
• the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice.

Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The
committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

<table>
<thead>
<tr>
<th>Final-Semester Dissertation (699) Minimum Registration Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Completed</em> electronic dissertation submitted to ProQuest</td>
</tr>
<tr>
<td><em>Completed</em></td>
</tr>
<tr>
<td>Before 4:45 p.m. on the last-possible day for instructors to post grades</td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

**Article-Style Dissertations**

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology
Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama no later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Marine Science, MS
The graduate Marine Science Program (MSP) is a dual-campus program of the Department of Biological Sciences at The University of Alabama and University programs at the Dauphin Island Sea Lab (DISL), a facility of the Alabama Marine Environmental Sciences Consortium (MESC). Both sites provide unique facilities to support education and research in the field of marine science. The main campus facilities include a marine algae and marine invertebrate collection. At DISL, there is a diversely trained resident faculty available year-round to teach graduate-level courses that are part of the MSP curriculum, to serve as thesis advisors, to provide support space, and to employ resident students in funded extramural research projects. The library at DISL specializes in publications that focus on the marine environment.

In addition, DISL provides support for University programs by way of a research facility containing offices, laboratories, and support facilities for the resident graduate faculty; three lecture-room/teaching-laboratory buildings; and two dormitories, an efficiency apartment building, and a dining hall. Access to the bay and Gulf waters is available via scheduled use of the 65-foot steel-hull R/V A. E. Verrill and by a variety of outboard-motor-powered craft that can be towed to different sites for launching.

Admission Requirements
Students seeking admission to the Marine Science Program must satisfy the general admission requirements of the Graduate School, found in the Admission Criteria section of this catalog. For further specific information, please contact Dr. Julie Olson, Coordinator of Graduate Studies, the University of Alabama Marine Science Program, Box 870344, Tuscaloosa, AL 35487; telephone 205-348-2633 or email jolson@ua.edu (jolson@biology.as.ua.edu).

Financial Support
The Marine Science Program cannot commit funds to prospective students. However, there are sources of funds—both within the University and at DISL. On campus, qualified students may compete for available departmental graduate teaching assistantships, when funds are available. Consideration is based on a combination of composite GRE scores and most recent degree GPA. Additional consideration may be
given to students possessing special skills. At DISL, resident students may be supported by DISL fellowships or assistantships, faculty research grants or contracts, or extramural funding.

**Degree Requirements**

Each candidate will be guided by a graduate committee consisting of at least three members appointed by the dean of the Graduate School. Usually, one member of the committee will be a qualified member of the faculty in residence on the Tuscaloosa campus.

Each student must complete a minimum of 8 hours of graduate credit on the Tuscaloosa campus. Normally, this occurs during the student’s first calendar year in the Graduate School. No foreign language is required.

Each student will undergo a preliminary examination prepared by the student’s graduate committee and designed to be answered in about four hours a day over three consecutive days. The examination will be administered by the committee chairperson no later than the third semester of enrollment. Prior to the examination, it is expected that the student will discuss preparation and subject matter with committee members. Each student will participate in an interdisciplinary effort (e.g., cruise or field exercise) at some time during residence at the Dauphin Island Sea Lab.

Each student, upon completion of the coursework and thesis, will present a faculty- and peer-review seminar on the thesis content. Additionally, the graduate committee will administer a final oral examination. The master of science in marine science degree requires at least 24 hours of graduate credit. Both Plan I and Plan II are acceptable. Additional information is in the Degree Requirements section of this catalog.

**Master’s Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate
School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

**Journal Format.**

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of
graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.**

**Department of Chemistry and Biochemistry (CH)**

- **Majors**
  - Chemistry (MSC) (p. 95)
  - Chemistry (PhD) (p. 97)

**Financial Assistance**

Financial assistance for graduate students in chemistry is available through fellowships, graduate teaching assistantships, and graduate research assistantships.

- **CH501 Intro Grad Inorg Chem**
  Hours 3
  Generally, this course is for entering graduate students whose undergraduate training in inorganic chemistry is insufficient.

- **CH505 Medicinal Chemistry**
  Hours 3
  Detailed investigation of the drug design process. Includes lead discovery, target identification and validation, pharmacodynamics, pharmacokinetics, and drug delivery systems. Chemical modification to improve efficacy will be emphasized.

- **CH510 Scientific Glassblowing**
  Hours 3
  No description available

- **CH521 Intro Grad Analytical Chem**
  Hours 3
  Generally, this course is for entering students whose undergraduate training in analytical chemistry is insufficient.

- **CH524 Adv Anl Ch I Spec Meth**
  Hours 3
  Provides graduate students with knowledge of the fundamental aspects of various modern methods of spectroscopic analysis. Reference to analytical applications and experimental methods is made, where relevant.

- **CH526 Chemometrics**
  Hours 3
  Chemometrics involves the application of statistical and mathematical methods to chemistry. Areas of emphasis will be data and error analysis, calibration, experimental design, signal processing and transform procedures, and data description and enhancement.

- **CH530 Intro Grad Org Chem**
  Hours 3
  Generally, this course is for entering graduate students whose undergraduate training in organic chemistry is insufficient.

- **CH531 Adv Organ Chem I-Physicl**
  Hours 3
  Theory and mechanism of organic transformations, detailed evaluation of organic structure, molecular dynamics, molecular orbital interactions, molecular symmetry, stereochemistry of reactions, and energetics of reaction paths.

- **CH532 Adv Org Ch II React Synt**
  Hours 3
  Fundamentals of organic transformations and advanced synthetic methodology with application to the synthesis of complex organic structures.

- **CH540 Intro Grad Phy Chem**
  Hours 3
  Generally, this course is for entering graduate students whose undergraduate training in physical chemistry is insufficient.

- **CH541 Adv Physical Chem I**
  Hours 3
  No description available

- **CH549 Adv Ph Ch II Atom/Mol**
  Hours 3
  No description available

- **CH561 Biochemistry I**
  Hours 3
  First-semester course in basic biochemistry. Structure and properties of biological molecules, including proteins, DNA, RNA, carbohydrates, lipids, and enzyme cofactors and prosthetic groups. Introduction to intermediary metabolism and glycolysis. Offered fall semester.
CH562 Biochemistry II
Hours 3
Continuation of basic one-year course in biochemistry. Intermediary metabolism, TCA cycle, oxidative phosphorylation, and catabolism of biomolecules. Biosynthesis of amino acids, nucleotides, carbohydrates, and lipids. DNA and RNA replication, with introduction to recombinant technology. Protein biosynthesis and membrane transport. Offered spring semester.

CH563 Biochemistry Lab
Hours 3
One lecture and one six-hour laboratory. Biochemical techniques within the structure of a semester-long research project. Topics include protein purification and chromatography, spectroscopy, electrophoresis, kinetics, and DNA manipulation.

CH564 Adv Biophysical Chem
Hours 3
The study of physical techniques applied to the development and experimental verification of biochemical hypotheses. Examples include forms of spectroscopy, treatment of multiple equilibria, and enzyme kinetics. Examples of applications are drawn from such areas as oxygen transport, oxidative phosphorylation, and photosynthesis.

CH565 Adv Bio-Inorganic Chem
Hours 3
Study of current knowledge on the roles of metal ions in biological systems, including structural and catalytic functions. Topics include bio-coordination chemistry, spectroscopic and magnetic methods, and kinetics.

CH566 Bioorganic Reaction Mechanisms
Hours 3
This course will be divided into two main areas. We will begin with methods for studying enzyme reaction mechanisms. This section will include steady-state enzyme kinetics, derivation of rate equations, enzyme inhibition, isotope exchange methods, pH and viscosity effects, kinetic isotope effects, and site-directed mutagenesis. We will then utilize these methods in order to investigate the chemical mechanisms enzymes use to catalyze specific reactions (hydrolysis; group transfer; 1,1 hydrogen shift; 1,2 hydrogen shift; C-C bond formations; and redox chemistry). We will also cover the chemistry associated with several cofactors required by enzymes (flavins, thiamin pyrophosphate, tetrahydrofolate, etc).

CH570 Research Techniques Chemistry
Hours 1-6
Independent study in chemistry to learn the tools of chemical research.

CH584 Literature and Communication in Graduate Chemistry
Hours 3
This course is an introduction to researching chemistry literature. Topics covered will primarily be related to scientific critical analysis and effective scientific communication, both written and oral. Students will receive structured guidance from the class instructor (s), chemistry faculty, and their class peers throughout the semester to assist with writing a chemistry research paper and delivering an oral presentation. Successful completion of this course will fulfill the literature seminar requirements (written research paper and seminar) for chemistry graduate students.

CH585 Chemistry Seminars
Hours 2
Course requires attendance at presentations given by graduate students and outside speakers.

CH586 Chemistry Seminars
Hours 2
Presentation of seminar to department.

CH599 Thesis Research
Hours 1-6
No description available

CH601 Adv Inor Chi:Strct Mth
Hours 3
No description available

CH605 Spec Topics Inorg Chem
Hours 3
No description available

CH609 Organometallic Chem
Hours 3
Structure, bonding, and reactivity of organotransition metallic compounds, mechanisms of transformations and fundamental reaction types, applications to catalysis and organic synthesis.

CH621 Trends In Analytical Chem
Hours 3
No description available

CH626 Surface Analytical Techniques
Hours 3
Introduces the student to the instrumentation and techniques used to study surfaces and interfaces. Spectroscopic, microscopic, desorption, and vacuum techniques are covered.

CH627 Mass Spectrometry
Hours 3
Deals with all areas of mass spectrometry (MS), including single and multiple stage MS and chromatography/MS. The emphasis is on fundamental principles and instrumentation, as well as applications and data interpretation.

CH635 Sel Topics In Org Chem
Hours 3
No description available

CH637 Spectroscopic Techniqqa
Hours 3
Fundamentals of spectroscopic techniques for structure determination of organic molecules. Theory and application of IR, NMR, and MS in organic chemistry.
Admission Requirements

In addition to meeting the general requirements of the Graduate School, entering graduate students should have completed, with an average grade of "B" or better, undergraduate coursework equivalent to a major in chemistry. Applicants may qualify for regular or conditional admission. To be considered for regular admission, an applicant must have a verbal and quantitative score of at least 1000 on the general test of the Graduate Record Examination or a score at the 50th percentile on the Miller Analogies Test.

An applicant whose credentials do not meet the requirements for regular admission may be considered for conditional admission if the applicant has a GPA of 2.5 overall and an acceptable score on the appropriate admission examination. An applicant may be considered for conditional admission if he or she meets either the 3.0 GPA requirement for regular admission or the entrance examination requirement for regular admission. A student admitted conditionally must remove any undergraduate deficiencies during the first year of graduate study and must remove the condition by earning an average of "B" or better in the first 12 hours of graduate-level work.

Diagnostic examinations covering the traditional areas of chemistry are required of all entering graduate students. These examinations are given a few days prior to registration for the first semester so that the results may be used by the departmental graduate committee in planning the student’s coursework for the first year.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

The requirements for the MS in chemistry are the same as the Graduate School’s general requirements. The PhD degree requirements also follow the policies in the Graduate Catalog. The comprehensive examination usually consists of a number of written cumulative examinations plus the oral defense of an original research proposal. In addition, acceptable literature and research seminars must be presented to the chemistry faculty and graduate students. The PhD student’s research performance is evaluated by his or her research advisor with concurrence of the student’s dissertation committee. Normally, the student is expected to be an author or coauthor of at least one publication in a refereed scientific journal prior to the awarding of the degree.

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.
Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment of Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major
department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Chemistry, Ph.D.
Admission Requirements
In addition to meeting the general requirements of the Graduate School, entering graduate students should have completed, with an average grade of "B" or better, undergraduate coursework equivalent to a major in chemistry. Applicants may qualify for regular or conditional admission. To be considered for regular admission, an applicant must have a verbal and quantitative score of at least 1000 on the general test of the Graduate Record Examination or a score at the 50th percentile on the Miller Analogies Test.

An applicant whose credentials do not meet the requirements for regular admission may be considered for conditional admission if the applicant has a GPA of 2.5 overall and an acceptable score on the appropriate admission examination. An applicant may be considered for conditional admission if he or she meets either the 3.0 GPA requirement for regular admission or the entrance examination requirement for regular admission. A student admitted conditionally must remove any undergraduate deficiencies during the first year of graduate study and must remove the condition by earning an average of "B" or better in the first 12 hours of graduate-level work.

Diagnostic examinations covering the traditional areas of chemistry are required of all entering graduate students. These examinations are given
a few days prior to registration for the first semester so that the results may be used by the departmental graduate committee in planning the student’s coursework for the first year.

See the Admission Criteria section of this catalog for more information.

**Degree Requirements**

The requirements for the MS in chemistry are the same as the Graduate School’s general requirements. The PhD degree requirements also follow the policies in the Graduate Catalog. The comprehensive examination usually consists of a number of written cumulative examinations plus the oral defense of an original research proposal. In addition, acceptable literature and research seminars must be presented to the chemistry faculty and graduate students. The PhD student’s research performance is evaluated by his or her research advisor with concurrence of the student’s dissertation committee. Normally, the student is expected to be an author or coauthor of at least one publication in a refereed scientific journal prior to the awarding of the degree.

The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.
Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits
All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request
Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time
limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student:
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after:

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.
Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

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### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Communicative Disorders (CD)
The program combines coursework, observation, and practicum to familiarize students with communicative disorders and to develop their skills in assessment and rehabilitation. Most students with undergraduate degrees in communicative disorders will complete the degree requirements in five semesters of full-time study. Students who complete the master’s degree will also have met the academic and practicum requirements for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association and for a license from the state of Alabama. These credentials enable graduates to be employed in clinical settings as well as in the public schools of Alabama and many other states, depending upon the certification requirements of those states.

Practicum sites include UA’s Speech and Hearing Center, public schools, DCH Regional Medical Center, University Medical Center, West Alabama Rehabilitation Center, Bryce Hospital, RISE Program, VA Medical Centers in Tuscaloosa and Birmingham, and other sites in the Birmingham area. Certified and/or licensed professionals supervise at all sites.

- Major
  - Speech Language Pathology (MA) (p. 105)

Students may not receive credit at both the 400 and 500 levels for courses of equivalent content. Graduate students enrolled in 500-level
courses that are also offered at the 400 level will be expected to perform extra work of an appropriate nature. Graduate credit will not be granted at the 400 level.

**CD501 Intro To Research Meth**  
Hours 3  

**CD502 Psychology of Language**  
Hours 3  
Language is a system of symbols that we use to communicate. The power of this system enables us to share the contents of our minds with other people who share that language. The evolution of language has profoundly shaped the lives of human beings, enabling our species to transmit knowledge from one generation to the next. This accumulated knowledge over time and space has allowed humans to proliferate as a species. New words are added to a language as new ideas emerge. The psychology of language is the study of the processes by which we as human beings generate grammatical sequences of linguistic symbols for comprehension by the listener.

**CD505 Augmentative/Alt Communication**  
Hours 3  
This course will review the basic aspects of the field of augmentative/alternative communication including aided and unaided symbols, strategies, and techniques.

**CD507 Technical Writing**  
Hours 2  
This course will provide students with the necessary writing tools to develop efficient and professional technical writing skills pertinent to the field of speech-language pathology. The course will include three sections: academic writing, speech-language pathology documentation and business writing. Throughout the course, students will compile a portfolio that will be useful during their graduate coursework and clinical experiences.

**CD508 Diagnostic Practicum**  
Hours 3  
The course is designed to provide graduate students in speech-language pathology with quality practicum experience evaluating individuals across the lifespan who present with a wide variety of speech-language disabilities.  
Prerequisite(s): Graduate student standing in the Department of Communicative Disorders

**CD509 Language Development**  
Hours 3  
Advanced study of normal language and communication development. Presentation and discussion of theories, individual differences, and cultural differences in typically developing children.

**CD511 Speech & Hearing Science**  
Hours 3  
A study of speech physiology, basic electronics, basic acoustics, speech acoustics, auditory perception, and neuroanatomy. Open to CD majors only.

**CD512 Language Disorders**  
Hours 3  
Presentation and discussion of theories, practices, and methods of differential diagnosis and language intervention for language-impaired children ages birth to 21 years of age.

**CD514 Autism Spectrum Disorders**  
Hours 3  
Presentation and discussion of theories and methods of language assessment and intervention of various language-impaired populations.

**CD515 Professional Seminar**  
Hours 1-3  
Study of professional issues in the field of communicative sciences and disorders. Includes current issues, practice standards, certification, licensure, ethics, employment, and professional organizations.

**CD516 Multicultural Issues**  
Hours 3  
Study of multicultural issues and how they affect speech and language. Presentation and discussion of American cultures and communicative differences.

**CD517 Adv Clin Pract Speech**  
Hours 1-9  
Individual assignments in selected areas of speech and language therapy. Clinical practice and scholarly investigation, with regular staff consultation.

**CD518 Advanced Clinical Practicum II**  
Hours 3-9  
The course is designed to provide graduate students in speech-language pathology with quality clinical practicum experiences involving diagnostic, treatment, and counseling services to individuals across the lifespan who present with a wide variety of speech-language disabilities. These experiences are offered in a variety of settings including, but not limited to, public schools, medical facilities, early intervention programs, residential settings, and nonresidential clinic settings. The student will demonstrate application of theory, knowledge, and skills in an intense external practicum site.  
Prerequisite(s): Completion of 4 semesters of CD 517: Advanced Clinical Practicum I

**CD520 Spec Topics Commun Disorders**  
Hours 1-3  
Graduate students will enroll in special topics one or more times depending upon offerings and student program interests. Topics will vary annually to reflect students’ needs for educational experiences within the profession appropriate at the time.

**CD529 Diagnostic Procedures, Speech**  
Hours 3  
This course will provide the student with an understanding of the theory and practice of differential diagnoses of persons with speech and language disorders.
CD535 Medical SLP
Hours 2
This graduate-level elective course will address current topics related to the practice of medical speech-language pathology in a variety of medical settings. This course will prepare learners for healthcare practicum placements and a career in the healthcare setting by teaching topics not covered in other content courses. A variety of topics will be explored including the following: collaborative models in the medical setting, medical/administrative terminology, clinical documentation, counseling, as well as practical applications throughout.

CD542 Public School Internship
Hours 3-6
No description available

CD543 Basic Audiology
Hours 3
Introduction to hearing evaluation, conservation, and impairment. Also considers the auditory system: anatomy, physiology, and pathology. Includes three laboratory sessions.

CD544 Aural Rehabilitation
Hours 3
The rehabilitation of hearing impaired people primarily through audiology and visual training. Other sensory training, language development, speech production, and guidance are also considered. Offered in the spring semester. Open to CD majors only.

CD545 Audiology Lab Experience
Hours 1-3
Supervised laboratory or clinical experience in hearing evaluation and rehabilitation.

CD550 Independent Study
Hours 1-3
No description available

CD551 Phonolog Dev Assessmnt Intervn
Hours 3

CD552 Neurology I
Hours 3
Basic neuroanatomy of the normal human cortex and what happens when impacted by disease or trauma.

CD553 Neuro II
Hours 3
Advanced study of the nature, assessment, and treatment of language and cognitive disorders associated with acquired brain injury, such as stroke, TBI, and dementia.

CD554 Fluency Disorders
Hours 3
The study of the nature, assessment, and treatment of stuttering. Emphasis on understanding the different onset and developmental theories and different approaches to treatment.

CD555 Sem In Voice Disorders
Hours 3
Advanced study of the physiological, acoustical, and psychological factors underlying voice disorders, methods of rehabilitation, and problems in research.

CD556 Acquired Motor Speech Disorder
Hours 3
Advanced study of the nature, assessment and treatment of acquired speech disorders, including dysarthria and apraxia.

CD557 Language Diagnosis Spec Populat
Hours 3
Theories, practices, and methods of differential diagnosis and intervention for language and phonology in multicultural, behaviorally disordered, severely multi-handicapped, mentally retarded, and learning disabled populations.

CD559 Instrumentation
Hours 1-3
Theory and practice of speech and voice analysis techniques which may include laryngeal imaging, acoustic analysis, aerodynamics analysis, and interpretation of spectrograms.

CD575 Dysphagia In Children
Hours 1-3
Advanced study of the nature, assessment, and treatment of swallowing disorders in children. Special populations (tracheostomized, ventilator) will be included.
Prerequisite(s): Graduate standing

CD576 Dysphagia In Adults
Hours 3
Advanced study of the nature, assessment, and treatment of swallowing disorders in adults. Special populations (tracheostomized, ventilator-dependent) will be included.

CD598 Research Not Re Thesis
Hours 1-6
Planning, executing, and evaluating research. For students following Plan II.

CD599 Thesis Research
Hours 1-6
All aspects of the thesis, from selecting a problem to writing the results and conclusions.

Faculty
Chair
Angela Barber
Clinic Director
Mrs. Mary Ray-Allen
Coordinator, Audiological Services
Dr. JoAnne Payne
Graduate Research Professor
Dr. Charles Formby
Associate professors
Dr. Angela Barber
Dr. Anthony Buhr
Dr. Marcia Hay-McCutcheon

Assistant professors
Dr. Spyridoula Cheimariou
Dr. Memoria Gosa
Dr. Paul Reed

Clinical instructors
Mrs. Mary Bryan
Mrs. Kandis Chatman
Mrs. Candace Cook
Mrs. Barbara Kucharski
Mrs. Sara Shirley
Mrs. DeLaine Stricklin

Speech Language Pathology, MS

Admission Requirements
Applicants must submit scores on the Graduate Record Examination general test. After admission to a program, each student's effectiveness will be given a broad-based evaluation by faculty and supervisors. Decisions on clinical placement, completion of the program, or termination of the student from the program will be based on factors such as course grades, demonstrated clinical competence, and personality factors.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The requirements for the master of science degree follow the general policies outlined in the Degree Requirements section of this catalog.

Master's Degrees
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below. Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.
400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment of Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.
If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master's Degree**

Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

**Department of Criminology & Criminal Justice (CJ)**

- Major
  - Criminology & Criminal Justice (MS) (p. 108)

CJ504 Health and Crime
Hours 3

The health consequences of social deviance and the impact of criminalization for individual and societal wellbeing. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.

CJ505 Gender & Crime
Hours 3

*No description available*

CJ506 Terrorism
Hours 3

An analysis of selected areas of terrorism, counter-terrorism, and homeland security with an emphasis on parallels between terrorism and crime.

CJ520 Seminar Law Enforcement
Hours 3

Analysis of selected areas of law enforcement. Emphasis is on currently developing trends.

CJ540 Sem Juvenile Delinquency
Hours 3

The nature and extent of delinquency; competing explanatory models and theories. Evaluation of control and treatment modalities.

CJ550 Sem Courts Social Policy
Hours 3

Examination of the American legal system from a political science and socio-legal perspective. Seminar covers the "rights revolution," the process of dispute settlement, judicial decision making, public opinion and the courts, and the United States Supreme Court.

CJ552 Social Inequality and Crime
Hours 3

Students will learn the basics of the discipline of social inequality. Students will learn how social inequality results in crime and deviance and leads to differential treatment by the criminal justice system. Inequalities of race, class, and gender will be the main focus of this course, but crime in organizations and cross-cultural crime will also be discussed.

CJ555 Civil and Criminal Trials
Hours 3

This course reviews civil and criminal court procedure, with a special emphasis on courtroom strategies and power differentials. Students will apply social-psychological theories and direct methods of observation for the analysis of courtroom behavior.

Prerequisite(s): Graduate Status

CJ570 Sem Correction Policy
Hours 3

Examines the historical and contemporary policy trends in institutional and community corrections.

CJ581 Applic Statistics In CJ
Hours 3

An evaluation of specific statistical methods for quantitative and nonquantitative analyses, concentrating on proper applications and interpretations in criminal justice settings.

CJ584 Criminological Theory
Hours 3

Examination of classical, neoclassical, positive, and social-defense theories of criminality and their interrelation with the broader problems of crime control. Offered spring semester.

CJ586 Research In Cj Process
Hours 3

Prepares the student to develop and to implement basic research designs. Offered fall semester.

CJ590 Special Topics
Hours 3

Offers an opportunity for faculty and students to explore in depth topics of contemporary interest that are not generally covered in the standard courses. Course content will vary from section to section.

CJ592 Independent Study
Hours 1-6

Research under faculty supervision in any area of interest to the student. Content may not relate to thesis or policy and practice project.
CJ598 CJ Policy And Practice
Hours 1-9
Provides credit for a major written project completed under the supervision of two faculty members. Research may be directed by any member of the faculty who accepts responsibility for supervising the thesis.

CJ599 Thesis Research
Hours 1-9
Research may be directed by any member of the faculty who accepts responsibility for supervising the thesis.

Facility
Chair
Lesley Reid
Graduate Director
Adam Lankford
Professors
Adam Lankford
Lesley Reid

Criminology & Criminal Justice, MS

Admission Requirements
Admission into the Master of Science program is limited. An applicant must hold a bachelor's degree from an accredited college or university. An undergraduate major in the social sciences is desirable, but students with strong undergraduate records in other fields are encouraged to apply.

It is the policy of the Criminology and Criminal Justice faculty to admit those students who demonstrate potential for successfully completing the master's degree program. Primary consideration is given to the applicant's scholastic record and test scores.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The graduate program in Criminology & Criminal Justice includes a thesis or a non-thesis option. Under both options, the student has considerable latitude to design a program to fit particular needs. All entering students must specify one of the two options during the second semester of academic work. Both options have core courses, including criminological theory, research in the criminal justice process, and applications of statistics in criminal justice.

Up to 6 hours of approved coursework may be transferred from other universities. Up to 6 hours of approved coursework may be taken in other departments at The University of Alabama and may be applied to the degree when it is consistent with the student's degree plan and approved by the department. The department does not accept 400-level courses toward degree requirements for the Master of Science in Criminology & Criminal Justice.

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. However, students generally can complete degree requirements in 18-24 months. Additional information is in the Degree Requirements section of this catalog.

### MS in Criminology & Criminal Justice, Thesis Option

This option requires a total of 30 credit hours including 9 of core requirements, 6 for thesis research, and 15 for elective courses. CJ 599 Thesis Research should be taken after core requirements have been completed.

Students must pass public oral defense of the thesis. Thesis students must also pass a written and/or oral comprehensive examination (ordinarily done during the thesis defense).

#### Thesis Option Degree Requirements Summary

<table>
<thead>
<tr>
<th>Hours</th>
<th>Core Course Requirements</th>
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<tbody>
<tr>
<td></td>
<td>CJ 581 Applic Statistics In CJ</td>
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<td>CJ 584 Criminological Theory</td>
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<td></td>
<td>CJ 586 Research In Cj Process</td>
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<td>CJ 599 Thesis Research</td>
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<td>Comprehensive Exam</td>
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<td></td>
<td>Electives</td>
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<td>Total Hours</td>
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</table>

#### MS in Criminology & Criminal Justice, Nonthesis Option

This option requires a total of 33 credit hours including 9 of core requirements, and 24 for elective courses. Nonthesis students must also pass a written and/or oral comprehensive examination based on the content of the degree program (ordinarily done after the completion of 18 hours of coursework).

#### Nonthesis Option Degree Requirements Summary

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<tr>
<th>Hours</th>
<th>Core Course Requirements</th>
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<tr>
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<td>CJ 581 Applic Statistics In CJ</td>
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<td>Comprehensive Exam</td>
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<td></td>
<td>Electives</td>
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<tr>
<td>Total Hours</td>
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</table>

Each candidate for a master's degree must apply for graduation through the Office of the Graduate School no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed. The candidacy form and graduation form both are available at the "Graduate School Forms" icon on the Graduate School's homepage.

### Department of English (EN)

- Majors
  - Creative Writing (MFA) (p. 112)
  - English (MA) (p. 117)
  - English as a Second Language (TESOL) (MA) (p. 115)
  - English (PhD) (p. 121)

### Time Limit for All Degrees

All requirements for the MA, MA in Applied Linguistics/TESOL, and MFA degrees must be completed within six years. The PhD degree must be completed within seven years from the time of admission to the doctoral program. Students enrolling in the BA to PhD program have eight years in which to complete their degrees.
Graduate Credit for 500-Level Courses
Graduate students enrolled in 500-level courses that are also offered at the 400 level are expected to perform extra work of an appropriate nature. Graduate credit will not be granted at the 400 level.

English Courses
EN500 Special Topics
Hours 3
No description available

EN512 Computers And Writing
Hours 3
A survey of how computers can be used to help students improve their writing and to help teachers improve their writing instruction.

EN523 History English Language
Hours 3
An introduction to the external history of the English language along with the study of the accompanying internal changes in structure. A desirable prerequisite for this course is EN 320 or EN 321.

EN524 Structure Of English
Hours 3
An intensive investigation of the structures in the English language, including phonology, morphology, syntax, and semantics. A desirable prerequisite for this course is EN 320 or EN 321.

EN525 Dialectology
Hours 3
The study of the experience of the English language in America, with particular emphasis on its development and dialects. A desirable prerequisite for this course is EN 320 or EN 321.

EN529 Directed Studies
Hours 1-6
No description available

EN532 Approach Teach Composition
Hours 3
A study of the basic pedagogical approaches to teaching expository writing in secondary and higher education, along with examination of traditional conventions as well as innovative pedagogical approaches used in such instruction. Work with course goals, objectives, and writing outcomes, syllabus and writing assignment construction, training in assessing student writing. Required of all graduate assistants in English.

EN533 Practicum Tchg College English
Hours 2
Fall semester only. Required of all graduate assistants teaching EN 101 for the first time. Training in reaching EN 101 course goals and writing outcomes. Format for the course is a one-hour large group meeting taught by the WPA and/or others on the First-year Writing Program staff or CRES faculty, and a one-hour small group meeting taught by the WPA, FWP staff, and/or CRES faculty. The small group meetings will function to offer additional mentoring for GTA teaching and support for GTA student learning. Please note: EN 533 begins with required orientation workshops and an intensive multi-day orientation session immediately prior to the start of the fall semester. Orientation attendance is mandatory for retaining a graduate assistantship.

EN534 Practicum Tchg College English
Hours 2
Spring semester only. Required of all graduate assistants teaching EN 102 for the first time. Training in reaching EN 102 course goals and writing outcomes. Further instruction in teaching formal argumentation and advanced research techniques. Format for the course is a one-hour large group meeting taught by the WPA and/or others on the First-year Writing Program staff or CRES faculty, and a one-hour small group meeting taught by the WPA, FWP staff, and/or CRES faculty. The small group meetings will function to offer additional mentoring for GTA teaching and support for GTA student learning.

EN535 Literary Criticism
Hours 3
A study of selected major critics and critical trends from the classical period into the 20th century.

EN537 Introduction to Graduate Studies
Hours 3
A study of selected bibliographical resources and of some of the important method approaches employed in literary study, including an introduction to critical approaches, scholarly writing, and issues in the profession.
EN539 Approaches to Teaching the Sophomore EN Survey
Hours 1
This course is required for all GTAs assigned to teach a 200-level EN survey for the first time. It may be taken concurrently with or in advance of teaching one's first literature survey, and is typically taken by Ph.D. students in their second year of coursework and by MFA students in their third year of coursework. A grade of “pass” is required for students to teach literature courses in the department of English. Students should expect to meet weekly to discuss practical subjects like how to manage daily discussion, construct exams, assign and grade papers, and otherwise ensure that learning outcomes are being met. Students should also expect to prepare teaching materials for a number of the 200-level surveys and to have those items evaluated for their agreement with the department’s 200-level course guidelines. Student Learning Outcomes:
• Students can produce a syllabus and other teaching materials that accord with departmental and disciplinary expectations for the 200-level literature surveys
• Students attain a broad knowledge of the scope and pedagogical goals of EN 205
• Students attain a broad knowledge of the scope and pedagogical goals of EN 206
• Students attain a broad knowledge of the scope and pedagogical goals of EN 207
• Students attain a broad knowledge of the scope and pedagogical goals of EN 208
• Students attain a broad knowledge of the scope and pedagogical goals of EN 209
• Students attain a broad knowledge of the scope and pedagogical goals of EN 210
• Students attain a broad knowledge of the scope and pedagogical goals of EN 249.
Prerequisite(s): One completed year of coursework in the English Ph.D. program or two completed years of coursework in the English MFA program
EN598 Non-Thesis Research
Hours 1-12
Non-Thesis Research.
EN599 Thesis Research
Hours 1-12
No description available

EN601 Fiction Workshop
Hours 3
Enrollment limited to students with approved portfolios (approval secured upon admission to the MFA program or during advising period; see creative writing director). Focus will be discussion of original student writing; other reading and writing may be assigned.

EN603 Poetry Workshop
Hours 3
Enrollment limited to students with approved portfolios (approval secured upon admission to the MFA program or during advising period; see creative writing director). Focus will be discussion of original student writing; other reading and writing may be assigned.

EN605 Workshop Special Topics
Hours 3
Enrollment limited to students with approved portfolios (approval secured upon admission to the MFA program or during advising period; see creative writing director). Focus will be discussion of original student writing; other reading and writing may be assigned.

EN608 Forms Special Topics
Hours 3
Through readings of primary works and theory by writers in a particular genre or form, this course examines the traditional and contemporary practice of that genre’s aesthetics. Sample topics: Prosody, Short Short Fiction and the Prose Poem, Characterization Across Genres.

EN609 Form Theory Practice
Hours 1
Short course in specialized topic of interest to creative writers. Sample topics: Teaching Creative Writing, Profession of Authorship, Writing Internship, Publishing: A Brief History, Poetry and Dance, Episodic Form.

EN610 Meth Teaching English Sec Lang
Hours 3
A detailed account of language teaching approaches and methods according to their underlying theories of language and language learning.

EN612 Topics In Applied Linguistics
Hours 3
Rotating topics in applied linguistics.

EN613 Second Language Development
Hours 3
A study of psycholinguistic, sociolinguistic, neurolinguistic, and other approaches to understanding how people develop skill in a second language.

EN617 Teach Esl Acad Language Skills
Hours 3
A course focusing on the teaching of academic writing skills in the context of an American university.

EN620 English Linguistics
Hours 3
An advanced introductory linguistics course that focuses on the English language and which has relevance for students in the applied linguistics/ TESOL, literature, rhetoric and composition, and MFA programs.

EN630 Directed Studies
Hours 1-6
No description available

EN635 Literary Criticism
Hours 3
Intensive study in the writings of one critic or exploration of a topic involving works by several critics. Recent topics have included feminist criticism and psychoanalytic criticism.

EN637 Workshop In Academic Writing
Hours 3
A writing workshop normally taken in the student’s final year of coursework. To pass this course, the doctoral student will be required to revise a paper and submit it for publication.

EN638 Sem Rhetoric & Composition
Hours 3
This seminar covers rhetorical texts from ancient Greece to the Renaissance, particularly texts having influence on today’s field of composition.
EN639 Topics Rhetoric Composition
Hours 3
Topics to be proposed by faculty each semester. Typical topics include literacy theory, theoretical perspectives on basic writers, and computers and literacy.

EN640 Spec Topics Sem American Lit
Hours 3
Recent topics have included "American Madness: the Literary Figurations of Unreason"; and Thoreau, Dickinson, and related contemporary writings.

EN641 Sem American Lit Before 1850
Hours 3
Intensive literary and historical study of writing by one or more American authors. A recent topic was the making, recording, and remaking of history in 19th-century American literature.

EN643 Sem 20th Century American Lit
Hours 3
Intensive literary and historical study of writing by one or more American authors. Recent topics have included the American 1960s and Hemingway.

EN647 Seminar Southern Literature
Hours 3
An intensive look at a major aspect of Southern American drama, poetry, and/or prose. Recent topics have included a study of race and gender in writings of Southern women; Faulkner and his legacy; and Tennessee Williams.

EN648 Seminar African-American Lit
Hours 3
A critical exploration of African-American literature (culturally, historically, politically and aesthetically) with efforts to define and contextualize the African-American experience.

EN651 Politics and Writing Pedagogy
Hours 3
An introduction to the theories and practices of pedagogical politics as they impact teaching, learning, and power relations in the composition classroom.

EN652 Composition Theory
Hours 3
A survey of major theories in composition studies, exploring philosophical underpinnings and major issues in the field.

EN653 Research Methodology
Hours 3
The study of empirical research methods as well as practice using methodological frameworks employed in composition/rhetoric research reports and designs.

EN654 Sem Visual & Digital Rhetoric
Hours 3
This seminar focuses on understanding what rhetoric is and how to identify it in visual and digital "texts." It explores how to use rhetoric as a pedagogical tool for incorporating visual elements into composition classes.

EN658 History of Rhet/Comp II
Hours 3
This seminar covers rhetorical texts from the Renaissance to the Postmodern era, particularly texts having influence on today's field of composition.

EN661 Chaucer
Hours 3
The Canterbury Tales, Troilus and Criseyde, and selected minor poems. Includes advanced study of Chaucer's language and the 14th-century milieu.

EN662 Middle English Lit Ex Chaucer
Hours 3
A survey of the period with emphasis on types of literature, allegory, and satire. The opinions and attitudes of the Middle Ages are examined.

EN663 Seminar in Renaissance Literature I
Hours 3
Recent topics have included Elizabethan drama and friendship in Renaissance literature.

EN664 Seminar in Renaissance Literature II
Hours 3
Recent topics have included Jacobean and Caroline drama and Shakespearean tragedy.

EN667 Shakespeare in Performance Practicum
Hours 3
Shakespeare wrote his plays to be performed, and this course investigates conditions and implications of performance on stage and in film, present and past.

EN668 Seminar in Renaissance Literature III
Hours 3
Recent topics have included John Donne's poetry and mourning and the elegy.

EN669 The Strode Seminar
Hours 3
This seminar is offered in the spring semester of even-numbered years and typically features visits from distinguished faculty from other universities. Recent topics have included constructing gender and Milton and Shakespeare in literary history.

EN674 Sem 18th Century Literature
Hours 3
Emphasis is on a major figure (Fielding, Pope, Swift) and/or groups of writers (The Age of Johnson) and/or form (the novel, biography, drama). Specific topics are announced prior to registration.

EN683 Seminar Romantic Literature
Hours 3
Intensive study of English Romantic poetry and prose. Recent topics have included Wordsworth and Coleridge, and the Shelley circle.

EN685 Seminar Victorian Literature
Hours 3
Intensive study of Victorian literature. Recent topics have included Browning and Hopkins, and "Anatomies of Pleasure and Pain."
EN690 Modern British Literature
Hours 3
A study of some major aspect or aspects of the literature from 1890 to 1945. Recent topics have included Modernism; Woolf, psychoanalysis, and feminism; and Dylan Thomas, D. H. Lawrence, and Ted Hughes.

EN693 Seminar in Postcolonial Literature and Theory
Hours 3
A seminar that examines literatures from the Global South. Recent topics have included postcolonial theory, colonialism, decolonization, diaspora, and globalization.

EN698 Non-Dissertation Research
Hours 1-9
No description available

EN699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
Joel Brouwer
Director of Graduate Studies
James McNaughton
Director of the MFA Program in Creative Writing
Kellie Wells
Director of the Hudson Strode Program in Renaissance Studies
Michelle Dowd
CRES Program Coordinator
Amy Dayton
TESOL Program Coordinator
Dilin Liu

Creative Writing, MFA
The program leading to the Master of Fine Arts (MFA) degree in creative writing is a studio/academic course of study. Imaginative writers enroll in writing workshops, forms courses, and literature classes, gaining exposure to a broad range of writing models and experimenting with a variety of strategies and forms. Guided development of each writer's talents culminates in a complete, carefully conceived final project (the thesis), typically a book-length manuscript. The program can be completed in three intensive years; a fourth year of study, in which work on the final project is the central activity, may be elected. All admitted MFA students receive support in the form of graduate teaching assistantships or fellowships. Support is available for up to four years, subject to satisfactory performance.

Admission Requirements
Applicants to the MFA program in creative writing must apply to the Graduate School for admission to the Department of English. To apply, connect to the Graduate School site at http://graduate.ua.edu/application/. Follow the online instructions, complete the required forms, and provide appropriate transcripts. The GRE general test is accepted but not required.

Application materials should be received by December 20 to ensure full consideration for admission for the following fall term.

The writing sample should consist of 20-30 pages of prose (fiction, nonfiction, or a combination of the two), or 10-20 pages of poetry, or both. Applicants must specify "Prose," "Poetry," or "Prose and Poetry" in the Specialty Area field of the online application and upload writing sample(s) as appropriate. If applying in "Prose and Poetry," upload two separate writing samples, one of prose and one of poetry.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
Candidates for the MFA degree are required to spend a minimum of two semesters in residence and to complete 48 hours of graduate-level credit, divided as follows. At least half of all coursework must be at the 600 level.

### Workshops and Forms Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EN 601</td>
<td>3</td>
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<tr>
<td>EN 603</td>
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<tr>
<td>EN 605</td>
<td>3</td>
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<tr>
<td>EN 608</td>
<td>3</td>
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</tbody>
</table>

Credit Hours Subtotal: 12

### Writers at Work: Form Theory Practice

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<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EN 609</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

### Literature, Criticism, or Linguistics Courses

Select 9 hours of literature, criticism, or linguistics courses in the Department of English at the 500 or 600 level.

Credit Hours Subtotal: 9

### Electives

Select two three-hour elective courses at the 500 or 600 level in English, a foreign language or literature, the Program in Book Arts, Gender and Race Studies, American Studies, or any other department in the university.

Credit Hours Subtotal: 6

### Thesis Preparation

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<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EN 599</td>
<td>6</td>
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</tbody>
</table>

Credit Hours Subtotal: 6

Total Hours: 48

1 MFA candidates must earn a total of 24 credit hours in this area. These three-hour courses may be repeated for credit. All MFA candidates are welcome to take any of these courses.


3 These one-hour courses examine specialized topics of interest to creative writers. Must be taken at least three times, for a total of 3 credit hours. Sample topics include: Profession of Authorship, Teaching Creative Writing, Magazine Scene, Public Poetry, Writing Internship, Publishing. A Brief History, Poetry & Performance.
Final Project
A thesis, typically a book-length manuscript, is prepared in consultation with a thesis advisor, usually a member of the resident creative writing faculty. The candidate for the MFA defends the thesis before a committee of four faculty members (including the thesis advisor): three total from the Department of English and one graduate faculty member from outside the department.

Master's Degrees
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected
to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

• a written and/or oral examination based on the content of the degree program;
• a thesis and final oral defense;
• a course requiring interpretation and integration of information from previous courses;
• a research paper, a “policy and practice” paper, or equivalent experience;
• a public performance or exhibition along with a contextualizing paper; and/or
• a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.
English as a Second Language, MA

A candidate for admission to the MA-TESOL degree program must satisfy the minimum conditions for regular admission to the Graduate School (including a GPA of 3.0 overall and an acceptable score on the general test of the Graduate Record Examination). Each applicant must also submit a sample of his or her academic writing. In addition, those who are not native speakers of English must submit a TOEFL score of at least 100 (IBT) or 600 (PBT); and must submit an audiotape demonstrating their speaking proficiency in English. For those who took the PBT TOEFL, scores on the Test of Spoken English (TSE) and Test of Written English (TWE) are also desirable as part of the application. Students may be required to take appropriate courses in speaking and writing at the English Language Institute. Application materials should be received by December 20 to ensure full consideration for admission for the following fall term; applications received after December 20 will be reviewed for admission, but they may not meet the deadlines for fellowship or assistantship consideration.

Students will be required to complete 30 semester hours for the degree: 24 hours of required courses and 6 hours of department-approved electives or of thesis research.

Students will be required to pass a comprehensive examination at the end of their coursework; the examination is normally given once a year, in February. The examination will cover all the major areas of study.

An optional thesis may be written under the guidance of the TESOL faculty. Please see the Graduate School's general requirements for the master's thesis, outlined under Degree Requirements earlier in this catalog.

To earn the degree, native speakers of English must demonstrate proficiency in a second language; students whose native language is not English must demonstrate satisfactory proficiency in spoken and written English.

For further details about the program, visit the departmental website and contact the coordinator of the Applied Linguistics/TESOL program.

Master's Degrees

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty at The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.
Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
• a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

English, MA

English MA Overview
The department offers programs leading to the Master of Arts in English, including an MA in English with a focused area of study in Renaissance Studies (Hudson Strode Program) and an MA in English with a focused area of study in Composition, Rhetoric, and English Studies (CRES).

See the Admission Criteria section of this catalog for more information.

Admission Requirements
Applicants for graduate work in English are required to take the Graduate Record Examination general test and the writing test. Each applicant should submit a sample of his or her critical writing (normally an essay of 10–20 pages written for an upper-level English course or an excerpt from a senior thesis). Unconditional admission to the MA degree program in English is dependent upon the student’s having satisfied the general requirements for admission to the Graduate School. Conditional admission may be allowed under the stipulations outlined in the general admission policy of the Graduate School. Application materials should be received by December 20 to ensure full consideration for admission for the following fall term; applications received after December 20 will be reviewed for admission, but they may not meet the deadlines for fellowship or assistantship consideration.

Degree Requirements
With the exception of students admitted into the master’s program to pursue a Focused Area of Study in Renaissance Studies; Composition, Rhetoric, and English Studies; or Applied Linguistics /TESOL (requirements for those programs follow), all candidates for the master’s degree are required to take a total of 30 credits (or a total of 34 credits if the student completes the teaching practicum 533/534) including the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>English, MA Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 537 Intro to Grad Studies</td>
<td>3</td>
</tr>
<tr>
<td>Critical Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following (or petition the DGS to fulfill this requirement with an alternative theory course):</td>
<td></td>
</tr>
<tr>
<td>EN 535 Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>EN 635 Literary Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition Pedagogy</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 533 Practicum Tchg College English</td>
<td>6</td>
</tr>
<tr>
<td>EN 534 Practicum Tchg College English</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>All master’s students must take at least three courses at the 600 level.</td>
<td></td>
</tr>
<tr>
<td>Plan I Thesis hours</td>
<td>6</td>
</tr>
<tr>
<td>Plan II 6 credits of electives</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>34</td>
</tr>
</tbody>
</table>

1 which is normally offered every fall and which students are encouraged to take in their first semester, for maximum benefit

Students not writing the thesis (Plan II) will take 6 credits of electives to acquire the 30 credits for completion. Students writing a thesis (Plan I) will take 6 thesis hours. Students with teaching assistantships must take the summer practicum before their first semester of service in addition to the practicum courses EN 533 Practicum Tchg College English and EN 534 Practicum Tchg College English during the year in which they begin teaching. All courses are repeatable for credit if/when the topic or the instructor changes.

Additional information is in the Degree Requirements section of this catalog for all programs in the Department of English.

Plan I (thesis plan) students must complete at least 24 semester hours of coursework in English in addition to writing the thesis, which must be a historical, critical, or otherwise analytical treatise. Thesis-plan students must take 6 semester hours of thesis research (EN 599 Thesis Research) in addition to their 24 hours of coursework for a total of at least 30 hours. At least three of these courses must be at the 600 level. For additional information regarding the master’s thesis in English, visit the departmental website and contact the director of graduate studies in the English department.

Plan II (non-thesis plan) students must complete at least 30 semester hours of coursework in English. At least three of these courses must be at the 600 level. See the course requirements for all master’s students cited above. During the fourth semester of the program, students must pass a written comprehensive examination as their “capstone experience.” See details below.
Degree requirements for the MA in English with a Focused Area of Study in Renaissance Studies

Students admitted as candidates for the master of arts in English with a focused area of study in Renaissance studies are required to take the following:

- **Bibliography and research**
  - EN 537 Intro to Grad Studies 3

- **Critical theory**
  - Select three hours (or petition the Strode director to fulfill this requirement with an alternative theory course): 3
    - EN 535 Literary Criticism
    - EN 635 Literary Criticism

- **Medieval literature**
  - Select three hours 3
    - EN 661 Chaucer
    - EN 662 Middle English Lit Ex Chaucer

- **Renaissance literature**
  - Select six hours 6
    - EN 663 Sem Renaissance Lit I
    - EN 664 Sem Renaissance Lit II
    - EN 668 Sem Renaissance Lit III

- **Shakespeare in Performance Practicum (a course offered every other spring, in years when there is not a Strode seminar)**
  - EN 667 Shakespeare Performance 3

- **Strode Seminar**
  - EN 669 The Strode Seminar 3

- **Interdisciplinary coursework**
  - Select three hours (subject to the approval of the Strode Director) 3

- **Composition pedagogy**
  - EN 533 Practicum Tchg College English 2
  - EN 534 Practicum Tchg College English 2
  - Select Plan I (6 thesis hours) or Plan II (6 hours of electives) 6

  **Total Hours** 34

Each student pursuing this focused area of study must also take 3 courses at the 600 level. A student writing a thesis (Plan I) will take 6 thesis hours (EN 599) and in consultation with the director of the Strode Program, drop 3 hours of coursework from his or her Renaissance focused area of study.

Degree requirements for the MA in English with a Focused Area of Study in Composition, Rhetoric, and English Studies (CRES)

Students admitted as candidates for the master of arts in English with a focused area of study in composition-rhetoric are required to take the following for a total of 34 hours:

- **Bibliography and research**
  - EN 537 Intro to Grad Studies 3

- **Linguistics**
  - EN 620 English Linguistics (or other linguistics) 3

- **Teaching**
  - EN 532 Approach Teach Composition 3

- **History of composition-rhetoric**
  - Select three hours 3
    - EN 638 Sem Rhetoric & Composition
    - EN 658 History of Rhet/Comp II

- **Digital humanities**
  - EN 512 Computers And Writing 3

- **General electives**
  - Select 15 hours 15

- **Teaching Practicum**
  - EN 533 Practicum Tchg College English 2
  - EN 534 Practicum Tchg College English 2

  **Total Hours** 34

Teaching assistants are required to complete 4 hours in the teaching practicum (EN 533/EN 534). A student writing a thesis (Plan I) will take 6 thesis hours (EN 599) and in consultation with the field advisor, drop 6 hours from her or his focused area of study. A student not writing a thesis (Plan II) will satisfy the graduation requirement by completing an oral defense of a capstone paper.

**Master’s comprehensive written exam.** The master’s comprehensive written exam is designed to be a “capstone experience” for students admitted as candidates for the master of arts in English, including those students pursuing a focused area of study in Renaissance studies but excluding CRES students. During the third semester of the program (fall semester of the second year), each student must propose four questions based on his or her coursework, along with a list of courses taken and papers written for them, to the MA Exam Committee. The committee, composed of the Graduate Faculty, will require the student to complete any necessary revisions to the questions by early January. The exam will be scheduled immediately after spring break in the student’s final semester of the program. The student will choose two of the four questions and devote one and a half hours to each question. Exams will be expected to display a fluent and grammatically correct prose, organizational cogency making for clarity of presentation, an ability to analyze texts impressively, and a certain conceptual sophistication in framing arguments. The exams will be graded as Distinction, Pass, or Fail. A student will be allowed to retake the exam before the end of the semester in the event of a failure.

**Foreign language requirement.** A reading knowledge of one foreign language is required. The foreign language requirement may be satisfied by one of the following:

- a. the certification through the appropriate department of a “B” average or the equivalent of two years of undergraduate-level study in a single foreign language, completed within five years of admission to the master’s program; or
- b. proof of advanced proficiency in the form of an undergraduate major in a foreign language OR the certification of at least a “B” in two advanced literature courses (300-level or higher) taught in the foreign language, completed within five years of admission to the master’s program, or
- c. passing the foreign language reading examination prepared by the Department of Modern Languages and Classics.
Students who are not native speakers of English may use their native language to fulfill this requirement. Students may petition their program director and/or the Graduate Studies Director for exceptions to these guidelines.

**Master's Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

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Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.
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- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.
English, Ph.D.

Admission

Applicants for admission to the PhD program in English are required to take the general test and the written test of the Graduate Record Examination. Each applicant must submit a sample of his or her critical writing (normally an essay of some 20 pages written for a course, or a portion of a master’s thesis) and must normally have a GPA of 3.5 or better for his or her master’s courses or equivalent graduate work. Application materials should be received by December 20 to ensure full consideration for admission for the following fall term; applications received after December 20 will be reviewed for admission, but they may not meet the deadlines for fellowship or assistantship consideration.

Requirements for the PhD in English

In addition to the Graduate School's general requirements for the PhD degree, the Department of English has the following specific requirements:

Courses

The PhD in English requires 48 hours of coursework, 24 of which must be at the 600 level. All courses are repeatable for credit if/when the instructor or topic changes. Students will also complete 24 dissertation hours and 4 hours of the teaching practicum EN 533/534 (for teaching assistants). Students may transfer up to 18 credit hours of coursework from a prior graduate degree. No more than 15 transferred hours may be at the 500 level. Only credit earned during the six-year period preceding admission to the doctoral program may be considered for transfer. If a student’s master’s degree is more than six years old at admission, that student may have to complete up to 18 additional hours of coursework. (See the Transfer of Credit section for doctoral degrees under Degree Requirements in this catalog.) Doctoral students whose work at the master’s level does not meet the course distribution requirements of the department’s MA program (see Requirements for the MA Degree in English) will be required to complete those distribution requirements with courses taken toward the PhD. To be admitted formally to candidacy for the PhD degree, all students must receive a pass in EN 637 Workshop In Academic Writing, which will be taken typically in the final year of coursework.

Foreign language requirement

Student must demonstrate reading knowledge of one foreign language.

This reading knowledge can be demonstrated by one of the following options (with the understanding that students may petition their program director and/or the Graduate Studies Director for exceptions to these guidelines):

1. the certification of at least a "B" average or the equivalent in two years of study of a single foreign language completed, as either an undergraduate or graduate student, within five years of admission to the PhD program; or
2. proof of advanced proficiency in the form of an undergraduate major in a foreign language OR the certification of at least a "B" in two advanced literature courses (300-level or higher) taught in the foreign language, completed within five years of admission to the PhD program; or
3. passing the foreign language reading examination prepared by the Department of Modern Languages and Classics.

The language used to satisfy the MA language requirement—whether gained here or at another school—can satisfy the language required for the PhD program. Students who are not native speakers of English may use their native language as the required language.

Preliminary examination

After finishing coursework, the student must apply to the Graduate School for Admission to Candidacy for the Doctoral Degree. To meet this requirement, each student must pass a written preliminary examination and engage with his or her dissertation committee in a one-hour conference concerning the dissertation prospectus. The written preliminary examination will be given at a date agreed upon by the student and his or her examination committee in consultation with the director of graduate studies. The oral conference concerning the dissertation prospectus can be scheduled after the student passes the written examination, when the student and dissertation director agree that the prospectus is ready (date to be arranged by the student in consultation with the graduate studies director and the dissertation committee). The examination and conference will be governed by the following guidelines:

1. Written preliminary examination (see specific procedures for rhetoric and composition):

   The purpose of the written preliminary exam is to demonstrate competence in the student’s area of specialization. The exam will be of four hours in duration in the field or genre of the dissertation. The examination committee will consist of three faculty members from the English department chosen by the student for their expertise in the field. Under the direction of her or his preliminary examination committee chair, who will likely also serve as dissertation director, and subject to the approval of the full exam committee, 1) the examinee will be responsible for constructing and demonstrating mastery of a reading list of primary and secondary texts in the appropriate subfield; and 2) the examinee will write approximately twelve questions, from which the committee will choose a subset (usually no less than two and no more than four) to be revealed to and answered by the examinee during the four-hour examination period. Exams will be closed book and closed note. Once the exam is completed, the student’s committee will read all responses, discuss them, and then, on the basis of consensus when possible and the basis of a majority that must include the chair if consensus is unreachable, assign the examinee a final grade of Distinction, Pass, or Fail. Students who fail the written preliminary examination may take it a second time. Students who fail the examination a second time will not be allowed to continue doctoral work.

2. Dissertation prospectus conference and dissertation defense

   The conference concerning the dissertation prospectus will be a one-hour discussion between the student and his or her dissertation committee. Generally, that committee will be composed of the dissertation director, plus three other graduate faculty members from the department and one graduate faculty member from outside the department. The conference will focus on both the soundness of the prospectus and the student’s readiness to undertake the research and writing of the dissertation. The purpose of the conference is to help the student begin the writing of the dissertation, to identify areas of potential difficulty, and to prepare the student for the project that lies ahead.

   Once the written preliminary examination has been passed and the dissertation prospectus conference completed, the student and his or her dissertation committee must complete an application to candidacy and
CRES students must take 9 hours of core English requirements and 15 A. The CRES curriculum

Components of the CRES exam. Students who have prior graduate assistants, and successful completion of the written and oral dissertation hours, 4 hours of teaching practicum (for teaching assistants), and a faculty member. Normally, the members of this committee are those faculty members who formed the dissertation prospectus conference committee. They will be appointed by the director of graduate studies in consultation with the student, who will have a clear understanding with the faculty members involved of whether they will be able to read the dissertation and conduct the final oral examination during summer months or during sabbatical leave if necessary. Faculty members have the prerogative to serve on a committee when they are not teaching; it is the student’s responsibility to schedule investigation, writing, and examination in time periods acceptable to members of the committee. All five members of the dissertation committee must have time to read and analyze the dissertation before the oral examination on the dissertation. Final approval of the dissertation must be received at least six weeks before graduation.

Teaching experience. All candidates for the PhD degree are required to have college or university teaching experience in English composition or literature before they graduate. Teaching assistants must complete the summer practicum before their first semester of service and enroll in EN 533 Practicum Tchg College English and EN 534 Practicum Tchg College English during their first year of teaching service.

CRES (Composition, Rhetoric, and English Studies) Degree Requirements

The CRES PhD Specialization requires 48 hours of coursework, 24 dissertation hours, 4 hours of teaching practicum (for teaching assistants), and successful completion of the written and oral components of the CRES exam. Students who have prior graduate degrees or coursework may transfer up to 18 hours.

A. The CRES curriculum

CRES students must take 9 hours of core English requirements and 15 hours in core CRES requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 537</td>
<td>Intro to Grad Studies</td>
<td>3</td>
</tr>
<tr>
<td>EN 535</td>
<td>Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>EN 635</td>
<td>Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>EN 637</td>
<td>Workshop In Academic Writing</td>
<td>3</td>
</tr>
<tr>
<td>EN 532</td>
<td>Approach Teach Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 652</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>EN 638 or</td>
<td>Sem Rhetoric &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 658</td>
<td>History of Rhet/Comp II</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- EN 512 Computers And Writing
- EN 638 Sem Rhetoric & Composition

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 512</td>
<td>Computers And Writing</td>
<td>3</td>
</tr>
<tr>
<td>EN 638</td>
<td>Sem Rhetoric &amp; Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

B. The CRES preliminary examination

A doctoral student wishing to write a dissertation in CRES must pass both the written and oral components of the preliminary examination. The written preliminary examination for candidates in CRES will be four hours in duration and will require candidates to respond to two of four topics prepared according to the guidelines available in the office of the CRES director.

If the candidate passes the written preliminary examination, the CRES faculty will conduct an oral examination of the candidate at the first convenient opportunity for both the candidate and the faculty. For the oral examination, the candidate will be responsible for material from all four topics—the two not covered on the written examinations as well as the two that were. Candidates intending to write a dissertation in composition studies must pass the oral examination. Students who fail the written preliminary examination may take it a second time. Students who fail the examination a second time will not be allowed to finish doctoral work.

C. CRES dissertation and prospectus defense

CRES students who have passed the preliminary examination are free to form a dissertation committee consisting of a director from the CRES faculty, three other faculty members of the English department, and a faculty member from outside the department. The candidate’s dissertation prospectus must be approved by his or her dissertation committee and then defended in an oral examination conducted by this same committee. (For more information, see the description for the dissertation and prospectus under the general PhD requirements above).

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.
Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied toward the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for
students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation. A Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which
the student will complete 30 semester hours of UA and/or transfer credit
toward the doctoral degree. Otherwise, a “hold” may be placed on future
registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate
School when the student submits the form for Admission to Candidacy
for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all
doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD
  students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate
  preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee
or other committee established in the program area. Whereas one of
the purposes of the preliminary examination is to determine the student’s
research competence to begin work on a dissertation, the examination
should be completed at least nine months before the degree is to be
awarded. A student may take the oral or written examination only twice.
Failing the examination twice results in dismissal from the degree
program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the
qualifying (major or preliminary) examination; completion of all
coursework as listed on the approved program of study; receiving
departmental approval of the dissertation subject (although some
departments require the defense of a dissertation proposal and/or writing
one or more preliminary sections of the dissertation as well); and having
the committee recommend the student for Admission to Candidacy for
the Doctoral Degree. The completed candidacy form is submitted to the
Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy,
received approval for the dissertation research proposal, or initiated
enrollment in 699 (dissertation research for a doctoral degree), the
student must pursue completion of the dissertation without interruption
by enrolling each fall and spring semester of the academic year for
at least 3 hours of dissertation research. Summer enrollment for 699
Dissertation Research is expected if the student is working on the
dissertation and using any University facilities or resources, including
faculty time, but the only time summer registration is required for
dissertation research (3 hours minimum) is when a doctoral student is
graduating in August or defending the dissertation during the summer
semester. This is true whether or not the student has formally submitted
an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of
such dissertation work upon completion of the degree. The amount of
dissertation research for which a student enrolls in any given semester
should be commensurate with the progress a student is expected to
make on the dissertation, as well as reflective of the extent to which
University facilities and faculty time are invested in the proposed
activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness,
manageability, and significance of the projected research. The student
formally presents the written proposal to the dissertation committee
and defends it in a meeting with the committee. The proposal normally
includes an introduction giving an overview and stating the significance
of the proposed research, review of the literature, and methodology.
Departments determine the details of the dissertation proposal’s format
with respect to such things as the length of the introduction and detail of
the review of the literature.

Once the student and dissertation chair have developed a proposal, and
the graduate dean has approved the dissertation committee, the student
schedules the dissertation proposal meeting that includes all committee
members. The student cannot propose a dissertation and have its final
defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and
skill in organization, writing, and presentation must be prepared on a
topic in the major field. It must constitute an original contribution to
knowledge. Early in the process, the subject of the dissertation must
be approved by the dissertation committee of the major department or
division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as
its chairperson, supervises the preparation of the dissertation. The
committee shall have no fewer than five members, all of whom are
appointed by the dean of the Graduate School. The dean’s
approval of the proposed dissertation committee is expected to be
obtained before significant progress is made on the dissertation—typically
just before or just after the dissertation proposal meeting. For this
purpose, the student submits the form for Appointment/Change of a
Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA
Graduate Faculty. The committee chair must be a full member of the
Graduate Faculty, as described in the Catalog’s section on Qualifications
of the Graduate Faculty (p. 34). One member must be from outside
the student’s major department. If the outside member is not a full or
associate member of the UA Graduate Faculty (e.g., a highly qualified
person from another university, a business or industry), the graduate
dean needs to appoint that member by approving Temporary Graduate
Faculty status for the specific purpose of serving on the student’s
dissertation committee.

The final oral dissertation defense is the culminating experience in the
doctoral program. As such, all members of the dissertation committee
are expected to attend and participate in real time. Virtual attendance via
interactive video or teleconference is permitted for off-campus external
committee members, but Tuscaloosa campus faculty should attend in
person unless extraordinary circumstances dictate the need for virtual
attendance.

The dissertation must comply with the regulations in A Student Guide
to Preparing Electronic Theses and Dissertations. Graduate School
deadlines, including each semester’s dissertation deadline, are available
at the Graduate School’s homepage.

Consult the ETD website for details of ETD submission, including
information on what needs to be submitted to the Graduate School. The
graduate dean must approve the dissertation before the student can be
cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral
Students states that once a student qualifies for doctoral candidacy, the
student must enroll each semester for at least 3 hours of dissertation
(699) research. If certain conditions are met for the student’s final
semester, the student may qualify to enroll for fewer than 3 hours of
699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Completed* means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Sciences
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

**Electronic submission of dissertations:** August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

### Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection
Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Gender and Race Studies (GRS)

- Major
  - Women’s Studies (MA) (p. 128)

WS500 Independent Study
Hours 1-6

Independent study on any subject pertaining to women. Projects are conducted under the supervision of a professor in the chosen field and must be approved in advance by the program director.

WS503 Teaching Gender & Race
Hours 3

This course explores pedagogical theories and practices advanced by feminist and cultural studies scholars and teachers. Students read pedagogical works, attend sections of WS 200 and AAST 201, develop teaching modules and pedagogical philosophies, perform teaching demonstrations, and construct syllabi for courses. Meetings with other discussion leaders and supervisors are required in addition to written work.

WS509 Memory, Identity and Politics: History, Gender, and Race
Hours 3

Course Description: This interdisciplinary graduate seminar explores the ways in which memory and the past construct political identities and the interplay of race, class, gender, and ethnicity in its social construction through readings, discussion, and student research. Reading selections include core theoretical texts on memory studies and specific case studies on topics, including but not exclusive to the American Civil War memory, U.S. South, slavery, and Reconstruction. Issues and questions are: how memories are constructed, translated into identities and political action; bases of shared memories and contested memories; political memorialization and the effects of collective amnesia; and how “communities of memory” are developed, sustained, and dissolved.

WS510 Special Topics
Hours 3

Seminar format. The course offers an interdisciplinary approach to topics, which vary by semester. Active student engagement, such as conducting an interview, is required. Sample topic: women in the world.

WS525 Feminist Theory Maj Text
Hours 3

Seminar consists of close readings in feminist theory, with an emphasis on primary texts. Intellectual, cultural, and political theory.

WS530 Feminist Theory-Contemp
Hours 3

Considers major economic, social, psychological, and philosophical approaches to the study of women. Emphasis is on the formulation of theories and mastery of primary works in the field.

WS532 Iss Prob Women Std Res
Hours 3

This seminar focuses on interdisciplinary research and problems in methodology in Gender and Race Studies.

WS535 Black Feminism
Hours 3

This upper level undergraduate/graduate seminar exposes students to the key figures texts and concepts that constitute black feminist thought.

WS540 Seminar Women Studies
Hours 3-9

Topics vary each semester. Graduate students are required to conduct original research. The courses focus on such topics as language and gender, Southern women’s culture.
WS570 Transnational Feminisms
Hours 3
Transnational Feminisms is a contemporary paradigm of study that moves beyond international conceptions of feminism to think across national borders by interrogating the intersections of nationality, race, gender, class, and sexuality in the context of global capitalism. This field works to decolonize the contested terrain of knowledge production upon gendered subjectivities are constituted and reconstituted within global relations of power and privilege. While globalization relies upon the heightened mobility of bodies, capital, commodities, technologies, and conceptual imaginaries across borders, it simultaneously requires the reconfiguration and reconstitution of the state, its bordering practices, and colonial and national hierarchies of social-spatial relations and their attendant binaries—self-other, first world-third world, traditional-modern, private-public, citizen-noncitizen. While a richly theoretical field, transnational feminisms provocatively engages with a feminist politics and practice attentive to feminism as both a liberatory formation and one with longstanding ties to colonialism, racism and imperialism. As such, it resists utopic ideas about “global sisterhood” while simultaneously working to lay the groundwork for more productive and equitable social relations among women across borders and cultural contexts.

WS590 Women and The Law
Hours 3
This seminar will examine the constitutional and legal rights of women in the United States. The course will center on an examination of case law concerning women’s constitutional rights generally, as well as their constitutional and statutory rights with respect to substantive areas such as employment, family law, reproductive freedom, education, and crime. The course will also explore the failure of rights doctrine to address the real, continuing oppression of women in American society.

Prerequisite(s): None

WS599 Thesis Research
Hours 1-6
The focus of this research may involve traditional or community-related research on the student’s approved thesis topic in Gender and Race Studies.

Faculty
Chair
Utz McKnight

Graduate Director
Utz McKnight

Professor
Utz McKnight

Women's Studies, MA

Graduates of the MA program will have the skills to continue graduate work toward a PhD in a humanities or social science discipline. Training in feminist studies and research methods will also enable graduates of the MA program to enhance their work in other careers, such as law, health care, criminology, social work, public welfare, and education.

Graduate work in Women's Studies and African American Studies is also available to students whose degree programs permit them to select courses in other programs and divisions. A Master of Arts concentration in Women's Studies may be taken through the Department of American Studies of the College of Arts and Sciences and through other cooperating departments and programs. Admission and programs of study are subject to the guidelines presented by the appropriate department or program.

Admission Requirements
All applicants to the Department of Gender and Race Studies must submit test scores from either the Graduate Record Examination or the Miller Analogies Test in support of the application. International students must submit results of the TOEFL as well. It is preferred that each applicant to the MA program have an undergraduate major or minor in Women's Studies, or the equivalent, and a major in a humanities or social science discipline. Each applicant should have a GPA of at least 3.0 on a 4.0 scale and satisfy minimum requirements for admission to the Graduate School. Students with deficiencies in undergraduate preparation may be required to take additional credit hours. Financial assistance is available in the form of research/teaching assistantships and fellowships for qualified students. Applicants who wish to be considered for research or teaching assistantships or fellowships should file their applications by February 15.

See the Admission Criteria section of this catalog for more information.

Degree Requirements for the MA in Women’s Studies

Students must meet all requirements in the Degree Requirements section of this catalog.

Students complete a minimum of at least 30 hours in courses numbered 500 or above. All MA students will successfully complete a 9-hour core program consisting of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WS 530</td>
<td>Feminist Theory-Contemp</td>
<td>3</td>
</tr>
<tr>
<td>WS 535</td>
<td>Black Feminism</td>
<td>3</td>
</tr>
<tr>
<td>WS 532</td>
<td>Iss Prob Women Std Res</td>
<td>3</td>
</tr>
<tr>
<td>WS 570</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 9

Students have the option of writing a thesis (Plan I) or passing a comprehensive exam described below (Plan II). A grade of “B” or better must be earned in all courses.

Plan I (thesis plan) requires at least 30 hours of coursework which will include 9 hours of core courses, 15 hours of elective courses, and 6 hours of thesis research. Students must submit a proposal before writing the thesis and defend the thesis before a committee of three graduate faculty, including at least one from outside the department.

Plan II (comprehensive exam) requires 30 hours of coursework which will include 9 hours of core courses and a comprehensive exam. The master's comprehensive exam is an oral defense of a portfolio of three exemplary research papers written during the student's program. The papers should be selected by the student and be prefaced by an original 10-page essay introducing the portfolio. The 10-page preface should explain how the three are reflective of the student's program of study. To pass the exam, the student will defend the portfolio and preface before a three-member graduate faculty committee.

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</table>
Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected
to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master's Degree**

Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.**
Department of Geography (GY)

- Majors
  - Geography (MS) (p. 134)
  - Geography (PhD) (p. 137)

GY500 Research Traditions Meth In Gy
Hours 3
An investigation of the historical development of geography, including its changing philosophies and prominent contributors. Students are also introduced to various approaches for conducting research in geography and must develop a written research proposal in an area of their interest.

GY502 Climatology
Hours 3
Review of atmospheric processes as they relate to global and regional climate patterns in the boundary layers of the Earth's environment.

GY504 Physical Geo of SE US
Hours 3
A study of the physical landscapes in the southeastern United States. Emphasis is on the geological setting, geomorphic features, climate, soils, and vegetation, and the interrelationships of these conditions that shape the landscape in this region.

GY505 Dir Research Physical Geograph
Hours 1-3
No description available

GY506 Dir Research Human Geography
Hours 1-3
No description available

GY509 Forest History and Restoration
Hours 4
Investigation of the theories, tools, and techniques used in historical ecology with a focus on the establishment of reference conditions for habitat restoration and management decisions.

GY510 Geography of National Parks
Hours 3
This course is devoted to the changing geography of the national park system and related protected areas throughout the world, with an emphasis on their design, planning, and operations.

GY512 Hydroclimatology
Hours 3
To provide a basic understanding of the waters of Earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water in streams, lakes and on or below the land surface.

GY513 Applied Climatology
Hours 3
Applied Climatology is a graduate/senior level course designed to expand upon fundamental concepts learned in GY 101 and also GY 402 (Climatology). Within this broad field, a specific focus in GY 513 concentrates upon climate and human health/behavior, and human modification of climate. The course contains a mixture of lecture, lab, and field assignments.

Prerequisite(s): GY 101 GY 402

GY514 Climate Change and Health
Hours 3
This course is an introduction to the effect of global climate change on health. The course will be taught from a geographical perspective and will introduce students to the physical science of climate change and the impact it has on health through discussion of extreme weather events, altered ecological systems, and threats to human security and welfare. Discussion will build on the core concepts of climate change science to provide students with a solid foundation to further examine a variety of topics from acute impacts such as heat waves and other weather extremes to chronic conditions such as shifting disease vector habitats, degraded air quality, and food security. Direct correlations between health impacts and climate change will be emphasized throughout as will discussion of mitigation and adaptation strategies.

GY516 Introduction to Geostatistics Using R
Hours 3
This course is an introduction to geostatistical data analysis using R. The course will be taught from the perspective of geographical and climate data analysis but serves as a broad introduction to the high-level programming language, R, as well as applied spatial data analysis. Students will load and manipulate data of different types, perform a variety of statistical analyses, generate graphical output, and create productive workflows using R alone. The primary outcome will be to facilitate students’ use of R to analyze data of their own choosing on a final project. Students will present these methods to the class for others to critique, analyze and learn from. Code sharing and re-use is highly emphasized, as is collaboration. The course is designed as a 1-hour lecture plus 2-hour lab each week.

GY517 Extreme Weather and Society
Hours 3
EW&S is an integrated physical and social science (W) seminar class consisting of readings, discussion, and lectures on perception, understanding, and communication of severe weather hazards.

GY520 Remote Sensing I
Hours 4
Focuses on basic principles behind remote sensing physics, techniques, and technology and introduces new sensor systems and digital image processing. Major topics include electromagnetic radiation principles, airborne remote sensing, microwave remote sensing, satellite remote sensing, and digital image processing.
GY523 Quantitative Methods
Hours 3
This course introduces several quantitative methods used by geographers to analyze and interpret geographic data and solve geographic problems. Topics include: Data formatting and organization, descriptive statistics, sampling, hypothesis formulation and testing, and parametric and non-parametric statistical procedures through factor analysis.

GY529 Fundamentals of GIS
Hours 3
This course is a hands-on, practical Geographic Information Systems (GIS) introduction. GIS is a computer-based system used for gathering, analyzing, and displaying geographic information. GIS enables users to integrate multiple spatial data sources, perform complex geographic analysis and present the results in digital and paper map. This technology has a wide range of applications for research, businesses and governments. Tailored toward first-time users, this course will focus on learning how to use the ArcGIS software package to import, generate, display and analyze spatial data.

GY530 Intro Geographic Info Systems
Hours 4
Introduces the basic concepts of GIS, including definition and components of GIS, spatial data structures, data sources, data input, manipulation and analysis, applications of GIS, and managing GIS.

GY532 Spec Research In Geog
Hours 2-4
No description available.

GY534 GIS Internship
Hours 3-6
Individual work experience in GIS supervised by the staff of an off-campus agency.

GY535 Remote Sensing II
Hours 4
Focuses on the quantitative analysis of non-photographic remote sensor data, providing students with hands-on experience using a digital image processing software package. Topics include preprocessing, image enhancement, classification, digital change detection, and remote sensing and GIS.

GY536 Adv Geographic Info Syst
Hours 4
Focuses on the analytical use of spatial information as well as GIS applications. Topics include spatial aspects of geographic information, attribute data structure, error and uncertainty, spatial analysis theories, GIS modeling, and GIS design.

GY537 GIS for Transportation
Hours 4
The application of Geographic Information Systems to transportation has resulted in a sub-field known as GIS-T. This course will provide a hands-on introduction to GIS-T.

GY539 GIS Programming
Hours 4
This course focuses on the extension of geographic information systems (GIS) through programming as well as on the development of stand-alone algorithms for spatial analysis and numerical modeling.

GY540 Commun Facil Planning
Hours 3
A study of concepts and processes that underlie (a) the provision of public goods and services and (b) the spatial organization of publicly owned facilities. Topics range from theory to practical methods of conflict resolution.

GY541 Land Use Regulations
Hours 3
The course explores the legal standards by which land is regulated and controlled in the U.S. It is designed for students who wish to become actively involved or exposed to land management and the planning profession.

GY544 Field Studies In Africa
Hours 6
Experiential learning course. It explores how different cultural groups in Africa relate to the natural environment.

GY545 Agriculture: Environment and Development
Hours 3
This course examines the geographical elements of how people use the biophysical environment to grow domesticated plants (crops). Agriculture is understood in this course as the transformation of biophysical or “natural” environments into “cultural” environments. It is assessed in regard to both the plants cultivated, and the soil, slope, moisture, and temperature conditions that exist and then are modified or created by farmers. Ecological and systematic approaches are taken in order to understand how different agricultural strategies insure continual long-term productivity and stability. Microeconomics is an important and recurring theme.

GY552 Environ Decision Making
Hours 3
Designed to help students develop both the tools and the personal philosophy necessary to analyze and manage scarce resources. A review of current environmental topics is followed by a survey of different paradigms and techniques that contribute to environmental decision making.

GY553 Environment & Society
Hours 3
Explores the linkages between the biophysical environmental and human social systems. Public-policy implications are viewed from a social science perspective.

GY558 Urban Analysis Planning
Hours 3
A thorough examination of the literature in economics, political science, and sociology that is relevant to the geographical study of contemporary urban structure, power, and conflict.
GY563 Ecosystem Services: Theory and Practice
Hours 4
This course will prepare students to function effectively as future researchers and policy-makers on topics related to sustainability and sustainable management of ecosystem-oriented projects and activities. The concept of ecosystem services provides one approach to facilitate trade-off decision making to identify win-win strategies among multiple stakeholders with often conflicting near-term objectives.

GY565 Region Planning Analysis
Hours 3
Principles and processes of regional planning and the analytical methods appropriate for solving regional planning problems. Case studies and the role of the planner in the regional planning process are discussed.

GY566 Transport Geography
Hours 3
Examines location and function of the multimodal North American transportation system, the urban transport planning process, and the political and environmental contexts of transport systems, including impacts of continued reliance on the automobile.

GY570 Special Studies Geog
Hours 3
No description available.

GY572 Soil Science
Hours 4
Introduction to the scientific study of soils. Covers soil physical properties, morphology, development, classification, environmental functions and uses, and resource degradation.

GY573 Public Policy Development in Water Resources Seminar
Hours 3
This course will evaluate the current approaches to policy theory and examine systematically the broader implications of the substantive aspects of public policy development in the water resources spectrum. In analysis of public policy development in water resources, the student will look at both policy process and policy substance. Attention will be given to the questions of how and why water policy differs across states, and how one might evaluate policy performance cross-nationally.

GY574 Cartography Practicum
Hours 3-6
Individual work experience in cartography supervised by the faculty and staff of the University.

GY576 Gis Practicum
Hours 3-6
Individual work experience in GIS supervised by the faculty and staff of the University.

GY577 Water Resources Management, Law, and Policy
Hours 3
The Water Resources Management, Law, and Policy course will provide students with a survey of water resources development, control, law, policy and management with particular emphasis on public policy considerations including: the acquisition and exercise of water rights—appropriative and riparian; groundwater management; water districts and user organizations; environmental considerations; Federal/State relations including interstate allocation; and the Alabama Water Resources Act. The course will also address international water law—the multinational treaties, laws, cases, practices and politics governing Earth's transboundary freshwater resources (watercourses including rivers, streams, lakes, and groundwater aquifers) shared by two or more countries.

GY578 Planning Practicum
Hours 3-6
Individual work experience in planning supervised by the faculty and staff of the University.

GY579 Planning Internship
Hours 3-6
Individual work experience in planning supervised by the staff of an off-campus planning agency.

GY585 River Hydrology
Hours 3
Rivers are dynamic natural systems that are of great importance to ecosystems and society. This course examines river hydrology processes from a physical geography perspective. A major theme of the course will be impacts of human actions on river systems.
Prerequisite(s): instructor permission

GY586 Watershed Dynamics
Hours 3
An examination of the physical operation of drainage basins (watersheds), focusing on surface water hydrology, erosion, and sedimentation.

GY589 Forest Eco Veg Analysis
Hours 4
A study of the relationship of trees to the environment, and the interrelationship of organisms that compose the forest community.

GY590 Internship
Hours 3
Individual work experience with agency involved in geographical research, analysis, and reporting.

GY591 Fluvial Geomorphology
Hours 3
This course provides an in-depth investigation of the processes that form rivers and their evolution.
GY596 Forest Ecosystem Management: Silviculture
Hours 4

In this course silviculture is treated as applied forest ecology. The goal of this course is to provide students with a knowledge of silviculture and its ecological basis so they can design manipulations in forest ecosystems to achieve a range of management objectives. The course requires field trips to tour different sites and visit with forest scientists and managers. In this course students learn about tree growth and stand development and use this information to develop silvicultural prescriptions to meet a diverse range of management goals. We will explore how silvicultural treatments can influence stand structure and composition and how these changes influence timber quantity and quality, forest health, biodiversity, soil, and wildlife habitat among other features. We will also focus on how silviculture is influenced by broader social, economic, and ecological issues.

Prerequisite(s): GY489 or GY409 or GY492 or GY494 or instructor permission

GY598 Non-Thesis Research
Hours 1-3

No description available.

GY599 Thesis Research
Hours 1-12

No description available.

GY602 Seminar in Climatology
Hours 3

This course is a doctoral level research intensive seminar in the geographic sub-field of climatology. The course will be taught by faculty with varied expertise within climatology and will, therefore, be dynamic in its topical focus from semester to semester. Content will broadly fall within hydro-climatology, synoptic climatology, climatological extremes, bio-climatology, and historical or paleo-climatology. The material covered will be of an advanced nature aimed at providing doctoral students with an understanding of the latest research and current developments within the field. Discussion will be directed towards readings of research articles and development of research methodology with the aim of producing an original research product that could be submitted in a scholarly journal for publication.

GY610 Seminar in Forest Science and Management
Hours 3

This is a reading and discussion intensive graduate seminar course. Each week you will be expected to come to class prepared to critically discuss the readings and other assignments. We will cover a diversity of topics in forest science and management and some additional reading may be necessary for you to be fully prepared to engage in class discussion. Our seminar time will be devoted to research intensive discussions of topics selected by individual students and the instructor. Students are encouraged to select a topic related to their research, but this is not a requirement. Throughout the semester we will also discuss the philosophy of science, the rubrics of scientific evaluation, the publication process, and other topics to aide in your training as a research scientist.

Geography, MS

Admission Requirements

Applicants must satisfy the minimum admission requirements established by the Graduate School. An applicant to the MS program is normally required to have a bachelor's degree in geography, environmental science, or a related discipline. Applicants with degrees in disciplines other than geography or with background deficiencies may be required to complete certain undergraduate requirements.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

MS in Geography, Thesis Option

This option requires a total of 30 credit hours including 6 hours of program requirements and 6 hours of thesis research. A minimum of 12 credit hours must be taken from courses in one of the areas of concentration including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 9 credit hours may consist of courses from any of the other three areas of concentration and/or may be selected from related courses offered in other disciplines with departmental approval (up to 6 of the 9 credit hours). A thesis committee should be established by the end of the first semester of residence and a thesis proposal must be defended by the end of the second semester of residence. Additional information is provided in the Department of Geography MS Graduate Handbook.
**MS in Applied Geography, Non-thesis Option**

This option requires a total of 39 credit hours including 6 hours of program requirements and 3 hours for non-thesis research projects. Students selecting this option must take a minimum of 8 hours of geographic techniques and may count up to 15 credit hours of such coursework towards their MS program. A minimum of 15 credit hours must be taken from courses in one of the areas of concentration including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 10 credit hours may consist of courses from any of the other three areas of concentration; related courses in other disciplines with departmental approval (up to 6 of the 10 credit hours); and/or experiential learning courses (up to 3 of the 10 credit hours). The non-thesis option is only available with consent of the academic advisor and graduate program director.

**Master's Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s
Theses must comply with the regulations set out in A Student Guide on Electronic Theses and Dissertations (ETD) for details. See the Graduate School's homepage for a link to information on paper. The candidate must give members of the examining committee a final oral examination. A final oral examination is required of all students who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style. At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format. A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details. Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first
session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Geography, Ph.D.**

**Admission Requirements**

Applicants must satisfy the minimum admission requirements established by the Graduate School. Applicants with degrees in disciplines other than geography or with background deficiencies may be required to complete certain undergraduate requirements. An applicant to the PhD program is normally required to have a master’s degree; however, an applicant with exceptional credentials may be admitted directly into the PhD program. See the Admission Criteria section of this catalog for more information.

**Doctor of Philosophy**

The PhD program requires a minimum of 48 hours of coursework beyond the baccalaureate degree (that may include up to 24 credit hours of approved graduate-level coursework transferred from a master’s program and a maximum of 12 hours of non-thesis or non-dissertation research), 24 hours of dissertation research, and a dissertation. A dissertation committee should be established by the end of the first semester of residence and a dissertation project should be established by the end of the third semester of residence. Each PhD candidate must pass a candidacy examination, submit and successfully defend a dissertation proposal, and pass an oral dissertation defense. Additional information is given in the Department of Geography PhD Graduate Handbook.

**Department of Geological Sciences (GEO)**

* Majors
  * Geological Sciences (MS) (p. 139)
  * Geological Sciences (PhD) (p. 141)

**GEO307 Seismology**

Hours 3

This course provides an overview of earthquake seismology for both undergrad and graduate geoscience students. Topics include elastic wave propagation, seismic ray theory, travel time interpretation, surface wave dispersion and seismic tomography.

Prerequisite(s): MATH 126 or MATH 146

**GEO510 Soil & Groundwater Restoration**

Hours 3

Methods for restoring contaminated soil and groundwater by examining the factors and processes influencing the efficacy of remediation systems. An emphasis will be placed on the scientific principles upon which soil and groundwater remediation is based.

**GEO511 Contaminant Transport in Porous Media**

Hours 3

This course will cover topics related to the transport and fate of contaminants in subsurface systems. Specifically, this course will discuss the many factors and processes influencing contaminant transport such as the effects of dispersion, inter-phase mass transfer, transformation reactions, and porous-media heterogeneity. In addition, representative conceptual/mathematical models describing contaminant transport phenomena will be discussed.

Prerequisite(s): MATH 125, PH 102, CH 102, GEO 306 or equivalents; and/or with instructor’s permission.

**GEO513 Sedimentary Petro-Clastics**

Hours 4

Study of the depositional and diagenetic history of clastic rocks. Offered on demand.

Prerequisite(s): GEO 215

**GEO515 Metamorphic Petrology**

Hours 3

Study of metamorphic processes, types, textures, and petrogenesis and the use of metamorphic rocks for understanding tectonism. Offered on demand.

**GEO516 Volcanology**

Hours 3

Rheologic properties of magmatic systems and application of these principles to the understanding of volcanic processes. Offered on demand.

**GEO522 Sedimentary Basin Analyis**

Hours 3

Examination of the evolution and development of sedimentary basins. Emphasis is on sedimentary, tectonic, and geochemical processes and their influence in petroleum generation, accumulation, and preservation. Offered on demand.

Prerequisite(s): GEO 365 and GEO 367 and GEO 210

**GEO525 Adv Topics In Geology**

Hours 1-6

Advanced topics in the following areas: economic geology, geochemistry, geohydrology, geophysics, geomorphology, mineralogy, paleontology, petrology, sedimentation, stratigraphy, structural geology, and tectonics. Offered on demand.
GEO534 Tectonics Seminar
Hours 1
Discussion of current research in Tectonics and related subjects. May be repeated for credit. Offered fall and spring semesters.

GEO535 Graduate Seminar
Hours 1
Oral presentations on current geological topics. Offered fall and spring semesters.

GEO536 Graduate Seminar
Hours 1
Oral presentations on current geological topics. Offered fall and spring semesters.

GEO542 Geodynamics
Hours 3
Introduction to the structure of the Earth's interior and theory of plate tectonics. Quantitative analysis of the physical processes governing the formation of major tectonic and magmatic features on the Earth. Emphasis is on understanding geodynamic processes in orogenic belts, volcanic arcs, intraplate magmatism, sedimentary basins and continental extensional provinces. Offered spring semester.
Prerequisite(s): GEO 365 or GEO 314; and PH 102 and PH 104 and MATH 126 or MATH 146

GEO545 Multichannel Seismic Process
Hours 4
Introduction to multi-channel seismic data acquisition, processing and interpretation. Includes the theory of wave propagation, time series analysis, and filtering. Problem-based lab using real-world data & examples.

GEO546 Scientific Computing
Hours 3
This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages.
Prerequisite(s): At least two 200 or 300 level course in geology or by permission of the instructor.

GEO564 Structural Validation and Modeling
Hours 3
Theory and techniques for validating and modeling maps and cross-sections. Includes balance and restoration of cross-sections and derivation and use of predictive geometric and kinematic models. Practical problem solving is emphasized. Offered alternate years.
Prerequisite(s): GEO 365 or equivalent

GEO565 Comparative Structural Geology
Hours 3
Analysis of the original literature on structural families and deformation-mechanism associations, emphasizing the low-temperature environment.

GEO570 General Geochemistry
Hours 4
Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered fall semester.
Prerequisite(s): GEO 314

GEO571 Thermodynamics For Geologists
Hours 3
Semi-derivational approach to understanding the thermodynamic relations most useful to geologists. Emphasis is on using the derived relations to solve common geologic problems. Offered alternate fall semesters.
Prerequisite(s): MATH 126 or MATH 146

GEO575 Petrochemistry
Hours 3
Principles and techniques in geochemical modeling of magmatic, hydrothermal and metamorphic processes.
Prerequisite(s): Instructor Permission

GEO576 Analytical Geochemistry
Hours 3
Theory, techniques, and applications of geochemical methods for the analysis of rocks, ores, and aqueous fluids. Offered on demand.

GEO583 Global Tectonics
Hours 3
Study of tectonics, plate motions, and tectonic environments. Includes discussion of controlling factors, driving forces, and resulting structures with emphasis on island arcs, trenches, backarc basins, transform boundaries, and continental margins. Offered alternate spring semesters or on demand.
Prerequisite(s): GEO 365 and GEO 367

GEO590 Seminar Regional Geology
Hours 1-3
Literature and field study of the geology of selected areas. Offered on demand.
Prerequisite(s): GEO 314 and GEO 365 and GEO 367

GEO597 Geological Internships
Hours 3
Field and laboratory projects with government and industry.

GEO598 Non-Thesis Research
Hours 1-6
Non-Thesis Research.

GEO599 Thesis Research
Hours 1-12
Thesis Research.

GEO602 Communicating Geology
Hours 3
Evaluate and develop effective scientific communication skills including writing, oral presentations and poster presentations.
Prerequisite(s): None

GEO608 Contaminant Hydrology & Modeling
Hours 3
Introduction to concepts and models in contaminant hydrogeology. Offered Fall.
Prerequisite(s): GEO 607
GEO626 Adv Topics In Geology
Hours 1-6
Advanced topics in the following areas: economic geology, geochemistry, geohydrology, geophysics, geomorphology, mineralogy, paleontology, petrology, sedimentation, stratigraphy, structural geology, and tectonics. Offered on demand.

GEO634 Tectonics Seminar
Hours 1
Discussion of current research in Tectonics and related subjects. May be repeated for credit. Offered fall and spring semesters.

GEO635 Graduate Seminar
Hours 1
Oral presentations on current geological topics. Offered fall and spring semesters.

GEO636 Graduate Seminar
Hours 1
Oral presentations on current geological topics. Offered fall and spring semesters.

GEO650 Isotope Geology
Hours 3
Principles of stable and radiogenic isotope geochemistry, and applications to economic geology, geochronology, petrology, and tectonics. Offered on demand.
Prerequisite(s): GEO 514 and GEO 515

GEO698 Non-Dissertation Res
Hours 1-12
No description available

GEO699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
Fred Andrus
Professor
Fred Andrus

Geological Sciences, MS

Admission Requirements
Admission to the graduate program in geology is competitive. Applicants must satisfy the minimum admission requirements established by the Graduate School. An applicant to the MS program is normally required to have a bachelor’s degree in geology or a related discipline (e.g., chemistry, mathematics, physics, or geological engineering) and to have completed at least one year each of college-level calculus, chemistry, and physics. Applicants with degrees in disciplines other than geology or with ancillary background deficiencies may be required to complete certain undergraduate requirements. An applicant to the PhD program is normally required to have a master’s degree; however, an applicant with exceptional credentials may be admitted directly into the PhD program.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The MS program requires a minimum of 24 credit hours of coursework, participation in the graduate seminar (two semesters), and a thesis. A maximum of 3 credit hours of nonthesis research may be applied toward the 24-hour total. A thesis committee should be established by the end of the first semester of residence and a thesis project must be proposed by the end of the second semester of residence. Each MS candidate must pass a combined oral thesis defense and final examination. Additional information is given in the Department of Geological Sciences Graduate Handbook.

Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing
education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate...
facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master's Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Geological Sciences, Ph.D.**

**Admission Requirements**

Admission to the graduate program in geology is competitive. Applicants must satisfy the minimum admission requirements established by the Graduate School. An applicant to the MS program is normally required to have a bachelor’s degree in geology or a related discipline (e.g., chemistry, mathematics, physics, or geological engineering) and to have completed at least one year each of college-level calculus, chemistry, and physics. Applicants with degrees in disciplines other than geology or with ancillary background deficiencies may be required to complete certain undergraduate requirements. An applicant to the PhD program is normally required to have a master's degree; however, an applicant with exceptional credentials may be admitted directly into the PhD program.

See the Admission Criteria section of this catalog for more information.

**Degree Requirements**

The PhD program requires a minimum of 48 hours of coursework beyond the baccalaureate degree (including a maximum of 24 credit hours of approved graduate-level coursework transferred from a master’s program and a maximum of 12 hours of nonthesis or nondissertation research), participation in the graduate seminar (four semesters), and a dissertation. A dissertation committee should be established by the end of the first semester of residence and a dissertation project should be established by the end of the third semester of residence. Each PhD candidate must also pass an oral dissertation proposal, an oral preliminary examination (after completion of all coursework), and an oral dissertation defense. Additional information is given in the Department of Geological Sciences Graduate Handbook.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.
Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for
students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website. There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy. Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

• To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

• If the department head supports the petition, it is forwarded to the college dean.

• If the college dean supports the petition, it is sent to the graduate dean.

• If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

• If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which
the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation--typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of
699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the <em>completed</em> electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1. International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours–Other Policies and Regulatory Bodies" on page 3 of this policy.
2. The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

**Electronic submission of dissertations:** August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

### Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection
of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

**Final Examinations**
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

**Application for Graduation**
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

**Clearing the Academic Record for Commencement**
At least one week before commencement, the candidate’s record must have been cleared for graduation.

**Attendance at Commencement**
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

**Withholding or Withdrawing an Advanced Degree**
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

**Department of History (HY)**
- Majors
  - History (MA) (p. 148)
  - History (PhD) (p. 151)

**HY500 Special Studies in History**
Hours 3-6

*No description available*

**HY504 Modern China Sc 1600**
Hours 3

Survey of Chinese history in the Ch’ing Dynasty and the 20th century. Major emphasis is on 19th- and 20th-century events.

**HY508 Colonial Us To 1763**
Hours 3
Topical survey of major themes in U.S. colonial history with particular emphasis on Anglo-American developments.

**HY509 Amer Rev/New Nation**
Hours 3
The development of revolutionary sentiment in the North American colonies, the resulting revolution, and the subsequent efforts to establish the new nation.

**HY513 Mexican War - Civil War**
Hours 3
Examines how Americans made war in the middle of the 19th century and how waging war affected the evolution of politics and society.

**HY526 U S World Power 1898-Pre**
Hours 3
Survey of American foreign policy from the Spanish-American War of 1898 to the present.

**HY541 Hy Us - Vietnam War**
Hours 3
A survey of the historical background of the conflict in Indochina leading to U.S. involvement in that conflict.

**HY542 The Middle Ages**
Hours 3
Foundations of the modern world in barbarian Europe: retreat into the countryside and private government, recovery of public institutions, money economy, and cultural vitality.

**HY543 Renaissance**
Hours 3
Intellectual movements associated with the Renaissance, with readings in Machiavelli’s Prince, More’s Utopia, and other humanist writings; social and economic life, religion, politics, and statecraft.

**HY544 Reform Counter-Reform**
Hours 3
History of the separation of Catholic and Protestant churches from the ideal of the universal Christian church; late-Medieval religious practice.

**HY574 Rel Of Us & Latin Amer**
Hours 3
Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century.

**HY580 Survey Military History**
Hours 3
Introduction to the field of military history and to the writing of military history from ancient times to the present, with an emphasis on the 19th and 20th centuries.

**HY590 England Under Tudors**
Hours 3
Development of an early modern state: establishment of strong central monarchy, religious crises from the Reformation to the Puritan movement, and exuberance and excess of an expanding society.
HY591 England Under Stuarts
Hours 3
How Englishmen of the 17th century worked out the great questions of their day: Was liberty compatible with strong and effective government? Could English elites share their power without destroying it? What did God want for England?

HY594 Britain In The Victorian Age
Hours 3
Britain at her apogee: possessor of the empire on which the sun never set; world economic leader; nation of Peel and Palmerston, Gladstone and Disraeli, Dickens and Trollope, Tennyson and Browning, Turner and Constable, and Victoria and Albert.

HY599 Thesis Research
Hours 1-6
No description available

HY600 Teaching History
Hours 1
A basic introduction to teaching history in colleges and universities. Will treat such issues as course planning, lecturing, handling discussions, classroom procedures and policies, student evaluation and ethical problems in teaching.

HY601 Literature Of American History
Hours 4
No description available

HY602 Lit American History Sc 1865
Hours 4
Course examines major historical scholarship of American history since the Civil War.

HY603 Literature European Hist
Hours 4
No description available

HY605 Lit Latin Amercn History
Hours 4
No description available

HY606 Prosem Us History To 1877
Hours 4
No description available

HY607 Prosem Us HY Since 1877
Hours 4
No description available

HY608 Prosem Southern History
Hours 4
This reading-intensive seminar introduces students to important historiographical debates in the History of the American South. Chronological boundaries of the course vary by instructor.

HY631 Early Mod Brit Eur Hy
Hours 4
No description available

HY635 Recent Brit Eur History
Hours 4
No description available

HY639 Prosem Military/Naval Hy
Hours 4
No description available

HY657 Sem Us Hy Since 1877
Hours 4
No description available

HY665 Special Studies
Hours 4
No description available

HY682 Sem British European Hy
Hours 4
No description available

HY697 Directed Readings
Hours 1-4
No description available

HY698 Directed Research
Hours 1-4
No description available

HY699 Dissertation Research
Hours 1-12
No description available
Faculty
Chair
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History, MA

Admission Requirements

General requirements for all history degree programs
Admission decisions for all graduate history programs at The University of Alabama are made by the Graduate School based on a composite of subjective and quantitative information, including the applicant’s statement of purpose and letters of recommendation, the academic standing of the programs in which the applicant has studied, evidence of appropriate college or graduate-level work in history courses, test scores, previous grades, and the recommendation of the graduate committee of the history department. Each application is considered in the context of other applications to the program, with due consideration given to the availability of space in the program, the need to maintain a pool of students of superior potential, and the need to encourage minority applications. Not every student whose credentials meet stated quantitative standards is admitted.

Quantitative requirements for unconditional admission to MA program
The applicant must have a GPA, based on a 4.0 system, of 3.0 overall or 3.0 for the last 60 semester hours in a degree program, and a score of at least 1500 on the combined verbal, quantitative, and analytical portions of the Graduate Record Examination. Applicants who take the GRE after October 1, 2002, must score at least 1000 on the combined verbal and quantitative portions and at least 4 on the analytical writing portion.

Quantitative requirements for conditional admission to MA program
An applicant whose credentials do not meet the requirements for regular admission may be considered for conditional admission if he or she has a GPA of at least 2.5 overall and a score of 1400 on the GRE. For applicants who take the GRE after October 1, 2002, conditional admission will require a score of 930 on the combined verbal and quantitative portions and at least 4 on the analytical writing portion. Conditional admission is rare and requires a special recommendation by the graduate committee. Students admitted conditionally must maintain a 3.0 average for the first 12 semester hours attempted. Failure to do so will result in dismissal from the program.

See the Admission Criteria section of this catalog for more information.

General Degree Requirements

Course load
Resident students are expected to register for full loads each semester—at least 9 hours, except in the case of .50 FTE teaching assistants, who must take at least 6 hours. All courses must be numbered 500 or above, but HY 699 Dissertation Research does not count toward the course hour requirement for any graduate degree.

Historiography requirement
All incoming graduate students (MA or PhD), unless specifically exempted by the Graduate Committee, must take at least two of the basic historiography courses as part of their degree program. :

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HY 601/602</td>
<td>Literature Of American History</td>
<td>4</td>
</tr>
<tr>
<td>HY 603</td>
<td>Literature European Hist</td>
<td>4</td>
</tr>
<tr>
<td>HY 605</td>
<td>Lit Latin Amercn History</td>
<td>4</td>
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They are encouraged to take these courses as early as possible in their program.

Seminar requirement
All MA students who choose Plan II (described under "Requirements for the MA Program" below) must take at least one research seminar. All doctoral students must complete at least two research seminars.

Language requirement
Unless specified to the contrary, all graduate degree programs in history require that each student demonstrate reading proficiency in one or more foreign languages. These languages should be selected from the standard research languages (Spanish, French, German, Italian, and Russian), but other languages relevant to the student’s program may be substituted with the recommendation of the student’s advisor and the permission of the Graduate Committee. The student must fulfill this requirement by passing the examination administered by the relevant language department at The University of Alabama. Completion of any of the various "language for reading proficiency" courses offered at The University of Alabama with a final grade of "B" or above also meets the language requirement.

Requirements for the MA Program

Plan I:

Coursework
Coursework totaling 24 credit hours in history and a thesis (an additional 6 credit hours of HY 599 Thesis Research) are required, and the student must demonstrate reading proficiency in one foreign language before taking the final oral examination.

Thesis
The topic of the thesis will be selected by the student in consultation with his or her advisor. After the topic has been agreed upon, the student will prepare a prospectus describing the topic and the proposed plan of approach, including the principal sources to be used. Copies of the prospectus will be distributed to the student’s advisory committee, which shall consist of three members, all of whom must indicate their acceptance of the topic.

Oral exam
The Plan I oral exam is on the MA coursework and the thesis. The examination committee consists of three professors who served as readers on the thesis, plus one additional history professor. The M.A. thesis must be submitted to the student’s primary advisor no later than six weeks before the scheduled defense, and the revised thesis must be submitted to the remaining members of the student’s committee at least three weeks before the scheduled defense. The committee files with the director of graduate studies a written opinion regarding the student’s suitability for further graduate work in history.
Plan II:
Coursework
Coursework totaling 30 credit hours in history is required, and the student must demonstrate proficiency in reading one foreign language before taking the final oral examination.

Oral exam
Plan II students must take an oral examination on their history courses and on a revised seminar paper, copies of which must be furnished to the members of the examining committee at least 10 days before the date of the oral examination. The examining committee must consist of at least four history professors, including as many as possible with whom the student has taken courses. The committee files with the director of graduate studies a written opinion regarding the student's suitability for further graduate work in history.

Special note on MA oral exams
In all of the MA oral examinations, two negative votes constitute failure of the examination. History graduate students may repeat failed oral examinations one time only, after an interval specified by the examining committee. Two negative votes constitutes denial of admission to the doctoral program. The use of faculty from outside the department to serve on MA examination committees (except in cases where faculty from other disciplines are prescribed by the graduate regulations) must be approved well in advance by the Graduate Committee.

Scholastic Requirements
Any student who receives 6 hours of "C" grades or 3 hours of "D" or "F" grades in history courses shall be dismissed from the program, although the student dismissed may petition the Graduate Committee for reinstatement.

A student on probation or whose transcript carries a grade of "I" will ordinarily be ineligible for a teaching assistantship or other departmental financial support.

Transfer of Credit
Courses of full-graduate level credit earned in an accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a History degree program. Evaluation of credit for transfer will not be made until the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to meet academic requirements specified in the catalog of the institution where a student was enrolled in the graduate school. Acceptance of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

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Graduate Credit for Noncredit Experiences
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full-graduate level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to
achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects...
in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The exam must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

History, Ph.D.
Admission Requirements
General requirements for all history degree programs
Admission decisions for all graduate history programs at The University of Alabama are made by the Graduate School based on a composite of subjective and quantitative information, including the applicant's statement of purpose and letters of recommendation, the academic standing of the programs in which the applicant has studied, evidence of appropriate college or graduate-level work in history courses, test scores, previous grades, and the recommendation of the graduate committee of the history department. Each application is considered in the context of other applications to the program, with due consideration given to the availability of space in the program, the need to maintain a pool of students of superior potential, and the need to encourage minority applications. Not every student whose credentials meet stated quantitative standards is admitted.

Special requirements for admission to the PhD program
Students applying to the PhD program are expected to have GRE scores substantially above the minimum acceptable for MA applicants (p. 148), a GPA in previous graduate work of 3.5 or better, and strong recommendations. Normally a successful applicant must also be endorsed by a faculty member prepared to serve as chairperson of the student's dissertation committee. See the Admission Criteria section of this catalog for more information.

General Degree Requirements
Course load
Resident students are expected to register for full loads each semester—at least 9 hours, except in the case of .50 FTE teaching assistants, who must take at least 6 hours. All courses must be numbered 500 or above, but HY 699 Dissertation Research does not count toward the course hour requirement for any graduate degree.

Historiography requirement
All incoming graduate students (MA or PhD), unless specifically exempted by the Graduate Committee, must take at least two of the basic historiography courses as part of their degree program:

<table>
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<td>HY 601/602 Literature Of American History 4</td>
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<td>HY 603 Literature European Hist 4</td>
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<tr>
<td>HY 605 Lit Latin America History 4</td>
</tr>
</tbody>
</table>

They are encouraged to take these courses as early as possible in their program.

Seminar requirement
All MA students who choose Plan II (described under "Requirements for the MA Program" below) must take at least one research seminar. All doctoral students must complete at least two research seminars.

Language requirement
Unless specified to the contrary, all graduate degree programs in history require that each student demonstrate reading proficiency in one or more foreign languages. These languages should be selected from the standard research languages (Spanish, French, German, Italian, and Russian), but other languages relevant to the student’s program may be substituted with the recommendation of the student’s advisor and
the permission of the Graduate Committee. The student must fulfill this requirement by passing the examination administered by the relevant language department at The University of Alabama. Completion of any of the various “language for reading proficiency” courses offered at The University of Alabama with a final grade of “B” or above also meets the language requirement.

Requirements for the PhD Program

History field requirements

The Department of History offers the following PhD fields:

- United States history to 1877
- United States history since 1877
- History of the South
- British and European history, 1485 to 1815
- British and European history, 1815 to present
- Latin American history to 1810
- Latin American history since 1810
- Military and naval History

PhD students may, as their fourth, non-testing field, also create their own thematic field, the exact boundaries of which will be settled in consultation with the Graduate Committee, provided that there are a minimum of two professors in the department who specialize in that area.

The PhD requires a total of 54 hours of graduate coursework. MA hours, including those accepted for transfer from other institutions, are included in this total. PhD students will offer four fields of history, with at least two, but not more than three, related to the same geographic area (U.S., Europe, or Latin America). The student must earn at least 12 hours of graduate credit in each of the four fields.

Beyond the 48 hours of history distributed in fields, the student must earn 6 additional hours of graduate credit:

a. in a field outside the history department;

b. in history, but in fields not presented for the PhD; or

c. in history, but as additional hours in one or more of the fields presented for the PhD.

Language requirement

Each student is expected to demonstrate a reading knowledge of two foreign languages, with the exception of those whose major fields are in American history. Those working primarily in American history must demonstrate a knowledge of only one foreign language, although any advisor may require his or her student to continue to fulfill the two-language requirement if it seems necessary to the area of the student’s research. For those who must satisfy the two-language requirement, a special skill pertinent to the candidate’s doctoral dissertation may be substituted for one language on the recommendation of the student’s advisor and with the permission of the Graduate Committee. The language and special skill requirements must be met before the scheduling of the comprehensive examinations.

Comprehensive examinations

The comprehensive examinations for admission to candidacy for the PhD consist of a four-hour written examination in each of three fields of history offered by the candidate, each administered by a committee of two or more professors representing the respective field. An oral examination will be administered subsequently by a committee consisting of not less than five professors who administered the written examinations. The comprehensive examinations are to be completed in a two-week period, with the written exams given the first week and the oral exam given the following week. The exam schedule must allow at least five days between the last written exam and the date of the oral exam. The written and oral exams in each field are considered a unit, which the student will pass or fail as a whole. Two negative votes constitute failure. A minimum of six months must elapse before the student may repeat a failed examination, the time of which will be set by the examining committee. A student is permitted to repeat a failed examination one time only.

Dissertation

Dissertations are to be based upon research in history and make an original contribution to knowledge. Each doctoral student will select and obtain approval for a dissertation topic before scheduling his or her comprehensive examinations. Students will select dissertation topics in consultation with their advisors. After the topic has been agreed upon, the student will prepare a prospectus describing the topic and the proposed plan of approach, including the principal sources to be pursued.

Copies of the prospectus will be distributed to the members of the student’s comprehensive exam committee in advance of the oral examination. The prospectus is accepted or rejected at the time of the oral comprehensive examination.

The Graduate School requires each student admitted to candidacy for the PhD to pursue completion of the dissertation without interruption by enrolling each semester in HY 699 Dissertation Research for at least 3 credit hours. The student must register for a total of at least 24 hours of dissertation research.

Final oral examination

The candidate must pass an oral examination on the dissertation and the field of the dissertation in accordance with the rules of the Graduate School. The dissertation committee consists of three professors who served as readers on the dissertation, plus at least one additional history professor and a representative of an outside department. Two negative votes constitute failure of the examination, which the student may repeat one time only, after an interval specified by the examining committee.

Using outside faculty on PhD examinations

Except in cases where faculty from other disciplines are prescribed by the graduate regulations, the use of faculty from outside the department to serve on PhD comprehensive or oral examinations must be approved well in advance by the Graduate Committee.

Scholastic Requirements

Any student who receives 6 hours of "C" grades or 3 hours of "D" or "F" grades in history courses shall be dismissed from the program, although the student dismissed may petition the Graduate Committee for reinstatement.

A student on probation or whose transcript carries a grade of "I" will ordinarily be ineligible for a teaching assistantship or other departmental financial support.

Transfer of Credit

Courses of full-graduate level credit earned in an accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a History degree program. Evaluation of credit for transfer will not be made until the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit
requires the approval of the student's advisor, the Graduate Committee of the Department of History, and the Dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all of the graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

A student initiates with the Graduate School a request for evaluation of graduate credit obtained at another institution. The form is available at the "Web Forms" icon of the Graduate School’s homepage. It is also the student's responsibility to ensure that an official transcript of the credit concerned is received by the Graduate School. All credit toward the MA degree must have been earned during the six years immediately preceding the date on which the degree is awarded. All credit toward the PhD must have been earned in the six years immediately preceding admission to the doctoral program.

The history department usually allows the transfer of 6 semester hours of credit toward the MA degree, although in exceptional cases up to 12 hours may be accepted. No more than one-half of PhD coursework hours (not including HY 699 Dissertation Research) may be transferred from another institution.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by the faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree
from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
a. describes the compelling circumstances,
b. briefly describes the current status of the dissertation, then
c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

• If the department head supports the petition, it is forwarded to the college dean.
• If the college dean supports the petition, it is sent to the graduate dean.
• If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
• If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

• any foreign language/research skill requirements are met (PhD students only);
• two full years of graduate study are completed; and
• the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.
Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog's section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School's homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student's final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for the student's final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours—Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
the principal investigator is responsible for contacting the college Human

case of dissertation research that involves the use of human subjects, matter how great or small the involvement of the human subjects. In the
and approval to use human subjects in research precede the research, no

The Protection of Human Subjects is to ensure that research involving human subjects
benefits for society, but it also has significant ethical questions. The
mission of the University’s Institutional Review Board (IRB) for Protection
of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Mathematics (MATH)

- Majors
  - Mathematics (MA) (p. 161)
  - Mathematics (PhD) (p. 165)
MATH504 Topics Mod Math Teachers
Hours 1-3
Diverse mathematical topics designed to enhance skills and broaden knowledge in mathematics for secondary mathematics teachers.

MATH505 Geometry For Teachers
Hours 3
A survey of the main features of Euclidean geometry, including the axiomatic structure of geometry and the historical development of the subject. Some elements of projective and non-Euclidean geometry are also discussed.

MATH508 Topics In Algebra
Hours 3
Content changes from semester to semester to meet the needs of students. Designed for graduate students not majoring in mathematics.

MATH509 Advanced Data Analysis
Hours 3
Concepts and techniques of posing questions and collecting, analyzing, and interpreting data. Topics include: univariate and bivariate statistics, probability, simulation, confidence intervals and hypothesis testing.
Prerequisite(s): MATH 125 and ST 260

MATH510 Numerical Linear Algebra
Hours 3
Further study of matrix theory emphasizing computational aspects. Topics include direct solution of linear algebraic systems, analysis of errors in numerical methods for solutions of linear systems, linear least-squares problems, orthogonal and unitary transformations, eigenvalues and eigenvectors, and singular value decomposition.
Prerequisite(s): MATH 237 and (CS 100, AEM 249, ECE 285, or RRS 101)

MATH511 Numerical Analysis I
Hours 3
Mathematical principles of numerical analysis and their application to the study of certain methods. Topics includes numerical methods for solving nonlinear equations; iterative methods for solving linear systems of equations; approximation and interpolation methods; numerical differentiation and integration techniques; and numerical methods for solving initial-value problems for ordinary differential equations.
Prerequisite(s): MATH 238, MATH 237 and (CS 100, AEM 249, ECE 285, or RRS 101)

MATH512 Numerical Analysis II
Hours 3
This is the second course in the numerical analysis sequence for graduate students in mathematics, science or engineering with an emphasis on numerical methods for solving boundary value problems, ordinary differential equations and partial differential equations, multistep methods for initial value problems, and approximation theory (least-squares problems, fast Fourier Transforms).
Prerequisite(s): MATH 343 and MATH 511

MATH520 Linear Optimization Theory
Hours 3
This course is an introduction to theory of linear programming. Topics include: basic theory (fundamental theorem of LP, equivalence of basic feasible solutions and extreme points, duality and sensitivity results), simplex algorithm and its variations, and special applications to transportation and network problems. Non-simplex methods are also briefly introduced.
Prerequisite(s): MATH 237 or MATH 371.

MATH521 Optimization Theory II
Hours 3
This course is an introduction to nonlinear programming. Topics will include necessary and sufficient conditions for optimality, as well as basic theory and numerical algorithms for several traditional optimization methods, e.g., basic descent methods, conjugate direction methods, quasi-Newton methods, penalty and barrier methods, Lagrange multiplier methods. A brief introduction to selected modern topics may be added if time permits.
Prerequisite(s): MATH 237 or MATH 371

MATH522 Mathematics For Finance I
Hours 3
An introduction to financial engineering and mathematical model in finance. This course covers basic no-arbitrage principle, binomial model, time value of money, money market, risky assets such as stocks, portfolio management, forward and future contracts and interest rates.

MATH532 Graph Theory & Applictions
Hours 3
Survey of several of the main ideas of general graph theory with applications to network theory. Topics include oriented and nonoriented linear graphs, spanning trees, branchings and connectivity, accessibility, planar graphs, networks and flows, matchings, and applications.

MATH537 Applied Math Topics I
Hours 3
This course is a survey of topics in applied mathematics.
Prerequisite(s): Permission of the department.

MATH538 Spec Top Appld Math II
Hours 3
No description available

MATH541 Boundary Value Problems
Hours 3
Emphasis on boundary value problems for classical partial differential equations of physical sciences and engineering. Other topics include Fourier series, Fourier transforms, asymptotic analysis of integrals and boundary-value problems for ordinary differential equations.
Prerequisite(s): C- or higher in MATH 343

MATH542 Integral Transf & Asympt
Hours 3
Introduction to complex variable methods, integral transforms, asymptotic expansions, WKB method, matched asymptotics, and boundary layers.
Prerequisite(s): C- or higher in MATH 541 OR permission of the instructor.
MATH51 Math Stats W/Appliction I  
Hours 3  
Introduction to mathematical statistics. Topics include bivariate and multivariate probability distributions, functions of random variables, sampling distributions and the central limit theorem, concepts and properties of point estimators, various methods of point estimation, interval estimation, tests of hypotheses and Neyman-Pearson lemma with some applications. Usually offered in the Fall semester.

MATH52 Math Stats W/Appliction II  
Hours 3  
Considers further applications of the Neyman-Pearson lemma, likelihood ratio tests, chi-square test for goodness of fit, estimation and test of hypothesis for linear statistical models, the analysis of variance, analysis of enumerative data, and some topics in nonparametric statistics. Credit for this course will not be counted toward an advanced degree in mathematics.

MATH554 Math Statistics I  
Hours 3  
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.

MATH555 Math Statistics II  
Hours 3  
Order statistics, asymptotic distributions, point estimation, interval estimation, and hypothesis testing.

MATH557 Stochastics Processes I  
Hours 3  
Introduction to the basic concepts and applications of stochastic processes. Markov chains, continuous-time Markov processes, Poisson and renewal processes, and Brownian motion. Applications of stochastic processes including queueing theory and probabilistic analysis of computational algorithms.  
Prerequisite(s): MATH 355

MATH559 Stochastic Processes II  
Hours 3  
Continuation of MATH 557. Advanced topics of stochastic processes including Martingales, Brownian motion and diffusion processes, advanced queueing theory, stochastic simulation, and probabilistic search algorithms such as simulated annealing.  
Prerequisite(s): MATH 457 or MATH 557

MATH560 Intro Differential Geom  
Hours 3  
Introduction to basic classical notions in differential geometry: curvature, torsion, geodesic curves, geodesic parallelism, differential manifold, tangent space, vector field, Lie derivative, Lie algebra, Lie group, exponential map, and representation of a Lie group.  
Prerequisite(s): MATH 586 or equivalent

MATH565 Intro General Topology  
Hours 3  
Basic notions in topology that can be used in other disciplines in mathematics. Topics include topological spaces, open sets, closed sets, basis for a topology, continuity functions, separation axioms, compactness, connectedness, product spaces, quotient spaces, and metric spaces.  
Prerequisite(s): MATH 586 or equivalent

MATH566 Intro Algebraic Topology  
Hours 3  
Homotopy, fundamental groups, covering spaces, covering maps, and basic homology theory, including the Eilenberg Steenrod axioms.

MATH570 Prin Modern Algebra I  
Hours 3  
An introduction to ring theory. Topics include rings, polynomial rings, matrix rings, modules, fields and semi-simple rings. Usually offered in the fall semester.  
Prerequisite(s): MATH 237

MATH571 Prin Modern Algebra II  
Hours 3  
An introduction to ring theory. Topics include rings, polynomial rings, matrix rings, modules, fields and semi-simple rings. Usually offered in the fall semester.  
Prerequisite(s): MATH 570

MATH573 Abstract Algebra I  
Hours 3  
Fundamental aspects of group theory are covered. Topics include Sylow theorems, semi-direct products, free groups, composition series, nilpotent and solvable groups, and infinite groups.

MATH574 Cryptography I  
Hours 3  
Introduction to a rapidly growing area of cryptography, an application of algebra, especially number theory.

MATH580 Real Analysis I  
Hours 3  
Topics covered include measure theory, Lebesgue integration, convergence theorems, Fubini's theorem, and LP spaces.

MATH583 Complex Analysis I  
Hours 3  
The basic principles of complex variable theory are discussed. Topics include Cauchy-Riemann equations, Cauchy's integral formula, Goursat's theorem, the theory of residues, the maximum principle, and Schwarz's lemma.
MATH585 Intro Complex Variables
Hours 3
Some basic notions in complex analysis. Topics include analytic functions, complex integration, infinite series, contour integration, and conformal mappings. Credit for this course will not be counted if it is taken after MATH 583.
Prerequisite(s): MATH 227

MATH586 Introduction to Real Analysis I
Hours 3
Rigorous development of the calculus of real variables. Topics include the topology of the real line, sequences and series, limits, limit suprema and infima, continuity, and differentiation.
Prerequisite(s): MATH 301

MATH587 Introduction to Real Analysis II
Hours 3
A continuation of Math 586. Topics include Riemann integration, sequences and series of functions, uniform convergence, power series, Taylor series. Optional topics may include the Reimann-Stieltjes integration, Weierstrass Approximation Theorem and the Arzela-Ascoli Theorem, metric spaces, multi-variable calculus.
Prerequisite(s): MATH 586

MATH588 Theory Diff Equations I
Hours 3
Topics covered include existence and uniqueness of solutions, Picard theorem, homogenous linear equations, Floquet theory, properties of autonomous systems, Poincare-Bendixson theory, stability, and bifurcations.
Prerequisite(s): MATH 238 and MATH 586

MATH591 Teaching College Math
Hours 3
Provides a basic foundation for teaching college-level mathematics; to be taken by graduate students being considered to teach undergraduate-level mathematics courses.

MATH593 Collegiate Math Education Rsrc
Hours 3
Introduction to basic knowledge of Geometry of Manifolds, especially to three and four dimensional manifolds: symplectic and contact geometry; handle body and Kirby calculus.
Prerequisite(s): MATH 565 and MATH 566, or departmental approval

MATH610 Iterative Meth Linear Sys
Hours 3
Describes some of the best iterative techniques for solving large sparse linear systems.

MATH611 Numerical Methods for Partial Differential Equations
Hours 3
Finite difference methods for hyperbolic, parabolic, and elliptical partial differential equations; consistency, convergence, and order of accuracy of finite difference schemes; stability analysis and the Courant-Friedrichs-Lewy (CFL) condition; numerical dispersion and dissipation; finite difference schemes in higher dimensions; implicit methods and alternating direction implicit (ADI) schemes; a brief introduction to additional topics, such as spectral methods, pseudo-spectral methods, finite volume methods, and finite element methods, may be offered at the discretion of instructor.
Prerequisite(s): MATH 512 or equivalent, and ability to program in a high-level programming language (MATLAB, C++, or FORTRAN).

MATH642 Partial Differential Equations
Hours 3
This is an introductory course in partial differential equations. It covers the theory, methods of solution as well as applications related to the three main equations of mathematical physics, namely the Laplace’s equation, the heat equation and the wave equation. This course serves as the first part of the sequence for the qualifying exam in partial differential equations.
Prerequisite(s): MATH 238 and MATH 486 or permission of instructor

MATH644 Singular Perturbations
Hours 3
This is an introductory course in perturbation methods. It covers both the theory and the methods of solution for a variety of equations ranging from algebraic, ordinary differential equations, to partial differential equations containing either small or large parameters. This course serves as the second part of the sequence for the qualifying exam in partial differential equations.
Prerequisite(s): MATH 238, some familiarity with ODE’s and PDE’s or permission of the instructor

MATH661 Algebraic Topology I
Hours 3
In-depth study of homotopy and homology. The theory of cohomology is also introduced as are characteristic classes.

MATH669 Topics in Topology
Hours 3
Introduction to basic knowledge of Geometry of Manifolds, especially to three and four dimensional manifolds: symplectic and contact geometry; handle body and Kirby calculus.
Prerequisite(s): MATH 565 and MATH 566, or departmental approval

MATH674 Abstract Algebra II
Hours 3
Fundamental aspects of ring theory are covered. Topics include Artinian rings, Wedderburn’s theorem, idempotents, polynomial rings, matrix rings, Noetherian rings, free and projective modules, and invariant basis number.
MATH677 Topics Algebra I
Hours 3
Content decided by instructor. Recent topics covered include linear groups, representation theory, commutative algebra and algebraic geometry, algebraic K-theory, and theory of polycyclic groups.

MATH681 Real Analysis II
Hours 3
A continuation of Math 580. Topics covered include basic theory of LP spaces, convolutions, Hahn decomposition, the Radon-Nikodym theorem, Riesz representation theorem, and Banach space theory, including the Hahn-Banach theorem, the open mapping theorem, and the uniform boundedness principle.
Prerequisite(s): MATH 580

MATH684 Complex Analysis II
Hours 3
Typical topics covered include analytic functions, the Riemann mapping theorem, harmonic and subharmonic functions, the Dirichlet problem, Bloch's theorem, Schottley's theorem, and Picard's theorems.

MATH686 Functional Analysis I
Hours 3
Topics covered in recent courses include Hilbert spaces, Riesz theorem, orthonormal bases, Banach spaces, Hahn-Banach theorem, open-mapping theorem, bounded operators, and locally convex spaces.

MATH687 Functional Analysis II
Hours 3
A continuation of Math 686. Topics may include spectral theory, Banach algebras, operator theory, unbounded operators.
Prerequisite(s): MATH 686

MATH688 Seminar: Topics in Analysis
Hours 3
Advanced course in real analysis. Topics may include harmonic analysis (the Fourier transform, Hardy-Littlewood maximal operator, interpolation, singular integral operators, BMO and Hardy spaces, weighted norm inequalities) or analysis and PDEs (Sobolev spaces, weak solutions to PDEs, Lax-Milgram theory, the Fredholm alternative, existence and regularity for elliptic and parabolic equations).
Prerequisite(s): MATH 681

MATH698 Non-Dissertation Research
Hours 3-9
This course will examine a topic not included in the student's dissertation.

MATH699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
Cruz-Uribe, David
Graduate Director
Halpern, David C.M.J.

Professors
Allen, Paul J.
Corson, Jon M.
Cruz-Uribe, David
Evans, Martin
Dixon, Martyn R.
Gleason, Jim
Hadji, Layachi
Halpern, David C.M.J.
Liem, Vo
Moore, Robert L.
Olin, Robert F.
Sidje, Roger
Sun, Min
Wang, James L.
Wang, Pu
Zhao, Shan

Associate Professors
Belbas, Stavros
Roberts, Lawrence
Moen, Kabe
Trace, Brace S.
Zhu, Wei

Assistant Professors
Ames, Brendan
Beznosova, Oleksandra
Chen, Yuhui
Ferguson, Timothy
Kwon, Hyun-Kyoung
Tosun, Bulent
Xu, Yangyang

Mathematics, MA

Admission Requirements
To be admitted for a graduate degree, students are expected to satisfy the general requirements of the Graduate School, as stated in the Admission Criteria section of this catalog. In support of the application, each applicant must submit scores on the general test of the Graduate Record Examination; the advanced portion is desirable but not required.
See the Admission Criteria section of this catalog for more information.

The Master of Arts Program in Mathematics
Candidates for the Master's degree in Mathematics can pursue one of three focused areas of study: Pure or Applied Mathematics; Mathematics
Finance; or Mathematics Education. A total of 30 hours of graduate work is required to obtain a Master's degree. Two distinct plans are offered:

Plan I requires successful completion of 24 semester hours of course work, and a thesis (6 hours of MATH 599 Thesis Research) supervised by a graduate faculty member in Mathematics. A student planning to graduate in the Spring semester should start thinking about the thesis topic as early as possible, and no later than in early Fall of the preceding year. The thesis must be defended in front of a committee, and then submitted electronically online through ProQuest at http://www.etdadmin.com/cgi-bin/school?siteld=176 once it has been approved by the committee. See http://services.graduate.ua.edu/etd/manual/index.html for a student guide on preparing electronic theses. Please note that a copy of the thesis or project must be available to each committee member at least two weeks prior to the presentation.

Plan II requires 27 semester hours of courses and 3 hours of work (MATH 598 Non-Thesis Research) devoted to a project supervised by a member of the graduate faculty in Mathematics. The project does not have to be based on original work, and can be an extensive literature review of a particular field of Mathematics. The project can be started in the semester that a student plans to graduate. A copy of the project approved by a faculty member must be provided to Natalie Lau, in the main office. A pdf file should also be made available. Although the Graduate Program Director can assist students in the selection of thesis or project advisors, students are in the end responsible for finding a thesis or project advisor.

The following courses do not count toward the Master's degree: MATH 502 History Of Mathematics, MATH 504 Topics Mod Math Teachers, MATH 505 Geometry For Teachers, MATH 508 Topics In Algebra, MATH 551 Math Stats W/Applictn I, MATH 552 Math Stats W/Applictn II, and MATH 570 Prin Modern Algebra I.

Students pursuing a PhD degree in Mathematics can be awarded a Master's degree after they pass their Qualifying Exams, complete 30 hours in graduate coursework and fulfill the core course requirements. A thesis, project, or oral exam is not required in this case.

A Master's degree with a focused area of study in Pure or Applied Mathematics requires at least 21 credit hours in Mathematics. MATH 591 Teaching College Math does not count toward this 21-hour requirement.

A Master's degree with a focused area of study in Mathematics Finance or Mathematics Education requires at least 18 hours in Mathematics. MATH 591 Teaching College Math does not count toward this 18-hour requirement but can count as part of the 24 (thesis) or 27 (project) hour requirement.

Master's degree students can submit an Admission to Candidacy form after completing at least 12 credit hours of approved courses. Students may fulfill the remaining credit hours by taking other Mathematics courses. With the approval of the Graduate Program Director, students may take courses in related areas such as Computer Science, Education, Finance, or Physics.

### Course Requirements

**One course with grade of B or better from each of the following two categories, and one two-course sequence:**

<table>
<thead>
<tr>
<th>Category 1: Pure (Choose 1)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571 Prin Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 573 Abstract Algebra I</td>
<td></td>
</tr>
<tr>
<td>MATH 674 Abstract Algebra II</td>
<td></td>
</tr>
<tr>
<td>MATH 587 Intro to Real Analysis II</td>
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<tr>
<td>MATH 580 Real Analysis I</td>
<td></td>
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<tr>
<td>MATH 681 Real Analysis II</td>
<td></td>
</tr>
<tr>
<td>MATH 565 Intro General Topology</td>
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<tr>
<td>MATH 566 Intro Algebraic Topology</td>
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</tbody>
</table>

**Two-Course Sequences (Choose 1):**

<table>
<thead>
<tr>
<th>Category 2: Applied (Choose 1)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 510 Numerical Linear Algebra</td>
<td></td>
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<tr>
<td>MATH 511 Numerical Analysis I</td>
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<tr>
<td>MATH 512 Numerical Analysis II</td>
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<tr>
<td>MATH 520 Linear Optimization Theory</td>
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<td>MATH 521 Optimization Theory II</td>
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<tr>
<td>MATH 522 Mathematics For Finance I</td>
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<td>MATH 541 Boundary Value Problems</td>
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<td>MATH 542 Integral Transf &amp; Asympt</td>
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<tr>
<td>MATH 554 Math Statistics I</td>
<td></td>
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<tr>
<td>MATH 555 Math Statistics II</td>
<td></td>
</tr>
<tr>
<td>MATH 585 Intro Complex Variables</td>
<td></td>
</tr>
</tbody>
</table>

**Research Requirements**

| MATH 599 Thesis Research (Plan I) | 6 |
| MATH 598 Non-Thesis Research (Plan II) | 3 |

**Pure or Applied Mathematics Focused Area of Study**

In addition to 21 credit hours in Mathematics, Plan I students may choose one elective course from outside Mathematics, subject to the approval of the Graduate Program Director, while plan II students may...
choose two elective courses from outside Mathematics, subject to the approval of the Graduate Program Director.

**Mathematics Finance Focused Area of Study**
In addition to the 18 credit hours in Mathematics, Plan I students may choose two of the following courses offered by the Department of Economics and Finance, while plan II students may choose three of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 570</td>
<td>Mathematical Economics</td>
<td></td>
</tr>
<tr>
<td>EC 513</td>
<td>Economic Forecasting Analysis</td>
<td></td>
</tr>
<tr>
<td>EC 571</td>
<td>Econometrics</td>
<td></td>
</tr>
<tr>
<td>EC 660</td>
<td>Game Theory</td>
<td></td>
</tr>
<tr>
<td>EC 672</td>
<td>Financial Econometric Modeling</td>
<td></td>
</tr>
<tr>
<td>FI 519</td>
<td>Financial Engineering</td>
<td></td>
</tr>
<tr>
<td>FI 520</td>
<td>Financial Risk Management</td>
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</tbody>
</table>

At the student’s request, other courses may be considered for approval by the Graduate Program Director.

**Mathematics Education Focused Area of Study**
In addition to 18 credit hours in Mathematics, Plan I students will take MATH 591 Teaching College Math and one of the following courses offered by the College of Education. Plan II students will take MATH 591 Teaching College Math and two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 500</td>
<td>Intro Educatn Research</td>
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<tr>
<td>BER 545</td>
<td>Analy Variance In Educ</td>
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<tr>
<td>BER 558</td>
<td>Intro To Psychometrics</td>
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<tr>
<td>BER 603</td>
<td>Survey Research In Educ</td>
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<tr>
<td>BER 631</td>
<td>Inqry As Interp: Qual I</td>
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**Master's Degrees**
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**
Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval...
of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meritng approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from
that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Mathematics, Ph.D.

Admission Requirements
To be admitted for a graduate degree, students are expected to satisfy the general requirements of the Graduate School, as stated in the Admission Criteria section of this catalog. In support of the application, each applicant must submit scores on the general test of the Graduate Record Examination, the advanced portion is desirable but not required. See the Admission Criteria section of this catalog for more information.

The Doctor of Philosophy Degree in Mathematics
The Doctor of Philosophy degree in Mathematics is intended as a research degree and is awarded based on scholarly proficiency (as demonstrated by course work and the Qualifying Examination) and the ability to conduct independent, original research (demonstrated by the PhD dissertation). A successful student must:

A) Complete 48 hours of graduate-level courses with a minimum of 39 hours in Mathematics. (The following courses do not count toward this degree: MATH 502 History Of Mathematics, MATH 504 Topics Mod Math Teachers, MATH 505 Geometry For Teachers, MATH 508 Topics In Algebra, MATH 551 Math Stats W/Applictn I, MATH 552 Math Stats W/Applictn II, MATH 570 Prin Modern Algebra I, MATH 586 Intro Real Analysis I, MATH 587 Intro to Real Analysis II, and MATH 591 Teaching College Math (except Math Education students).

B) Not take more than three courses from the following: MATH 522 Mathematics For Finance I, MATH 532 Graph Theory & Applictns, MATH 537 Applied Math Topics I, MATH 585 Intro Complex Variables, MATH 588 Theory Diff Equations I, MATH 574 Cryptography I.

C) Pass the PhD Qualifying Examination in two areas of Mathematics (see below).

D) Fulfill PhD candidacy requirements.

E) Complete at least 24 semester hours of dissertation research.

F) Write and submit a dissertation based on original research in an area of Mathematics.

G) Give an oral defense of the dissertation results.

For university rules regarding transfer credit, residency requirements, and other policies and deadlines, refer to the Academic Policies section of the Graduate Catalog (p. 10), or see the Graduate Program Director.

Course Work Requirement
Students must complete 48 credit hours in order to qualify for the PhD. Most of the courses required for a Master’s Degree, but not all, are part of the approved collection. In consultation with the student’s dissertation advisor, the Graduate Program Director must approve the student’s program of study. Study plans for students wishing to focus in Algebra, Analysis, Scientific Computing/PDE, Topology, Math Education, or Optimization can be found in the student handbook.

The following core requirement must be completed: One course with grade of B or better from each of the following two categories representing Pure and Applied areas respectively, and three two-course sequences.

<table>
<thead>
<tr>
<th>Category 1: Pure (Choose 1)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571 Prin Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 573 Abstract Algebra I</td>
<td></td>
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<td>MATH 674 Abstract Algebra II</td>
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<td>MATH 580 Real Analysis I</td>
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<td>MATH 681 Real Analysis II</td>
<td></td>
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<tr>
<td>MATH 565 Intro General Topology</td>
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<td>MATH 566 Intro Algebraic Topology</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Category 2: Applied (Choose 1)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 510 Numerical Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 511 Numerical Analysis I</td>
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<tr>
<td>MATH 554 Math Statistics I</td>
<td></td>
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<tr>
<td>MATH 555 Math Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

Two Course Sequences (Choose 3) 18

<table>
<thead>
<tr>
<th>Algebra</th>
<th>Boundary Value Problems and Integral Transforms and Asymptic</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571 Prin Modern Algebra II &amp; MATH 573and Abstract Algebra I</td>
<td>MATH 541 Boundary Value Problems &amp; MATH 542and Integral Transf &amp; Asympt</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Mathematical Statistics</th>
<th>Mathematical Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 554 Math Statistics I &amp; MATH 555and Math Statistics II</td>
<td></td>
</tr>
</tbody>
</table>
MATH 511 Numerical Analysis I  
& MATH 512 Numerical Analysis II

Optimization

MATH 520 Linear Optimization Theory  
& MATH 521 Optimization Theory II

Real Analysis

MATH 580 Real Analysis I  
& MATH 681 Real Analysis II

Topology

MATH 565 Intro General Topology  
& MATH 566 Intro Algebraic Topology

Additional courses are available to students that provide the foundation to do research at the PhD level. Students with an uneven preparation at the undergraduate level may be advised to take foundation courses before proceeding with the program above. For example, students in the Ph.D. program may be initially advised to take the Master’s level analysis course, MATH 587 Intro to Real Analysis II, before taking MATH 580 Real Analysis I.

Only courses with numbers above 500 are accepted for graduate credit; however, some courses have dual numbers so that they can be taken for either undergraduate or graduate credit. For example, students cannot take both MATH 465 and MATH 565 for credit. This situation may apply to students who have been undergraduates at UA. Also, be aware that some 500-level courses may count toward the Master’s degree requirement, but not toward the PhD requirement.

Because a doctoral degree usually requires five years of full-time study, financial support is provided for five years, with the possibility of a sixth year of support. A typical course load is three courses per semester. If a student is employed as a Graduate Teaching Assistant (equivalent to a 6-hour teaching load), the minimum course load is 6 hours. However, the total course load plus teaching must be between 12 to 18 hours inclusive.

Students are expected to finish the required core courses listed above in the first two years of the program (or the first three years, if foundation courses are taken). The core course requirement makes up from 18 to 21 of the necessary 48 hours, so students can specialize and broaden their studies.

After their second or third year, students should be focusing in areas related to their dissertation. Students are advised to take at least 12 hours of coursework in their chosen research area. A focused area of study such as Computer Science, Engineering, Finance, or Physics could be advisable for students in Applied Mathematics. These areas may also be beneficial to students who plan to work outside an academic setting. Up to three courses at the 500-level from outside the Mathematics Department may be taken subject to the Graduate Program Director’s approval. Be aware that the fees for courses in the Graduate School of Business are considerably higher than those charged by the College of Arts and Sciences. For example, in the spring of 2017, the fees a graduate course in Economics were $284.50 compared to $73.50.

Acceptable Progress toward a PhD in Mathematics

1st Year – Maintain a 3.00 GPA or higher, and take 3 courses per semester.

2nd Year – Complete three of the 2-course sequences and core courses with a satisfactory GPA and pass two qualifying exams.

3rd Year – Maintain a satisfactory GPA, apply for candidacy, form a Supervisory Committee by the middle of the 3rd year, contact Marcia Black at mblack@ua.edu to reserve a room for the research proposal presentation; obtain approval of the research proposal from the Supervisory Committee and begin dissertation research. Although optional, it is recommended that one of the Committee members be from outside the Department of Mathematics.

4th Year – Complete the 48 hours with a satisfactory GPA, submit the Plan of Study to the graduate school (via Natalie Lau at klaus@ua.edu), and form a Dissertation Committee by the end of the fourth year. Note that one of the Committee members must be from outside the Department of Mathematics.

5th Year – Check the student deadlines from the graduate school’s website, at https://graduate.ua.edu/current-students/student-deadlines/. Students who plan to graduate in the Spring semester, for example, have to submit an online application for degree at the beginning of that semester. At least one month before the deadline for submission of the dissertation to the graduate school, students must distribute a hardcopy of their dissertation to committee members, and the defense needs to be scheduled to give students at least one week to make corrections. Contact Marcia Black at mblack@ua.edu to reserve a room for the defense. The last day to submit a defended dissertation at the Proquest website, including changes suggested by the committee, is usually the towards the end of October in the fall semester, and towards the end of March in the spring semester. Provided satisfactory progress towards the PhD is being made, a student’s advisor may request an extension for a 6th year of support. This request must be made before the end of the semester before the last semester of funding.

The PhD Qualifying Examination

The qualifying examinations are offered the week before the fall semester starts in August, and the week before the start of the Spring semester in January.

PhD students are expected to take and pass the PhD qualifying examination by the end of their second year in the program. The qualifying exam attempts to test both the depth and breadth of the student’s knowledge. With the approval of the Graduate Program Director, well-qualified graduate students, especially those with a Master’s degree, may request to take the Qualifying Exam early.

For the tests, students choose any two from five subjects (listed in the next section), and must pass both four-hour long tests; otherwise, a failure status will be reported to the Graduate School. Students who only pass one exam, only need to retake the failed exam. A student may not fail any qualifying exam more than once. If a student takes a given exam and fails, and then chooses a different exam (e.g., replacing the analysis exam with the PDEs exam), the first exam failure will still count and the student must pass the new exam in order to remain in the program. If a dispute arises, the final interpretation of the exams will be made by the Graduate Program Committee.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as...
The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.
Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the graduate dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such
a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after
- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in
person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours–Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate
School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Modern Languages and Classics (GN, ROFR, ROML, ROSP)

- Majors
  - German (MA) (p. 176)
  - Romance Languages (MA) (p. 197)
  - Romance Languages - French (MA) (p. 179)
  - Romance Languages - Spanish (MA) (p. 188)
  - Romance Languages (Ph.D.) (p. 200)
  - Romance Languages - French (PhD) (p. 182)
  - Romance Languages - Spanish (PhD) (p. 191)

The Romance Languages Option of the MA allows for a focused area of study combining French and Spanish. The Romance Languages Option of the PhD allows for focused areas of study combining French and Spanish, or combining French and Linguistics, or combining Spanish and Linguistics.

French Courses

FR501 Reading Proficiency I
Hours 3
Introduction to French grammar and vocabulary, with emphasis on developing basic reading and translation skills.

FR502 Reading Proficiency II
Hours 3
Continued study of grammar and vocabulary, with emphasis on further developing reading and translation skills.

FR511 Research Methodology
Hours 3
Basic research tools and techniques.

FR512 Practicum in Applied Linguistics
Hours 3
The analysis and various practical applications of selected teaching techniques.
FR513 Research Methods in French Applied Linguistics
Hours 3
The goal of this course is to introduce the student to the research process in foreign language studies and second language acquisition, especially in relation to the teaching of French. Emphasis will be on helping the student understand approaches to second language acquisition research, in terms of both quantitative and qualitative approaches and techniques. The student will learn how to submit a proposed research project to the Institutional Review Board for approval. The student will learn to conform to the general organization of a research report, will undertake cognitive and sociocultural approaches to language study, and will critically evaluate published reports representing both quantitative and qualitative research on foreign language learning and language use in journals such as The Modern Language Journal, Applied Linguistics, Language Learning, Foreign Language Annals. The student will design his/her own research procedure based on the development of his/her own research questions in relation to the teaching of French. The student will learn to use data collection instruments, to explore theoretical orientations, and to formulate a detailed data analysis plan.

FR515 Topics in Second Language Acquisition
Hours 3
Topics vary. Analysis of major issues, theories, research findings and their implications for teaching. Examples: second language reading, classroom language acquisition. May be repeated for credit.

FR521 Pronunciation & Phonetics
Hours 3
Introduction to phonetic theory and corrective phonetics aimed at mastery of French pronunciation. Instruction on the articulation of the sounds of French, the phonetic transcription of French, and the correspondence between the sounds of French and its standard orthography. Frequent practice exercises.

FR531 Francophone Africa
Hours 3
Prominent themes of the African experience, seen through the eyes of Francophone authors and cinematographers of the Maghreb, sub-Saharan Africa, and the immigration; dialectal and sociolinguistic considerations.

FR532 Francophone Louisiana
Hours 3
The object of this course is to become familiar with the dialects, literatures (oral and written), social histories, and cultures of Francophone Louisiana (the entire former territory, not just the present state) from the inception of the Colonial period (1682) up until the present time. We will be concerned not only with the experiences of European colonizers and their descendants, but also with Native Americans, with people of African origin, and with people of multiethnic identity (Creoles of Color, etc.).

FR533 Topics in French Culture and Civilization
Hours 3
Study of French artistic heritage and development of social and political institutions. May be repeated for credit.

FR545 17th-Century French Literature I
Hours 3
17th century French literature.

FR546 17th-Century French Literature II
Hours 3
Verse writings of the 17th century including, but not limited, to the pre-classical poets (such as Saint-Amant and de Viau) and the dramatic works in verse (such as the plays of Corneille, Mollière and Racine).

FR548 18th-Century Philosophe Movement
Hours 3
Intellectual prose of the Enlightenment. Lectures and discussion.

FR551 19th Century French Novel
Hours 3
Close readings of the novel alongside studies in Romanticism, realism, naturalism, symbolism and decadence. Novelists, works and movements privileged will vary, but generally include combinations of the following: Chateaubriand, Mme de Staël, Stendhal, Balzac, Hugo, Sand, Flaubert, Zola and Huysmans. May be repeated for credit.

FR552 Special Topics in 19th-Century French Literature
Hours 3
Readings in poetry, theatre and prose either genre-specific or in combination, generally focusing on the first or latter half of the century in order to consider movements in literary thought. May be repeated for credit.

FR553 20th-Century French Novel
Hours 3
Major novelists of the period and their works. Reading and discussion of complete texts, lectures and reports.

FR554 Special Topics in 20th and 21st Century French Literature
Hours 3
Major trends in 20th and 21st Century French poetry, theater, essays, and history of ideas. Seminar including lectures and reports. Prerequisite(s): An undergraduate degree, possibly in French, or testing into appropriate level of language competence.

FR555 Quebecois Literature and Culture
Hours 3
A study of the history, culture and literature of Québec and French Canada, with emphasis on the modern period.

FR561 French Linguistics
Hours 3
Linguistics theory applied to the analysis and description of French phonological, morphological, syntactic, and lexical systems. Tendencies of change in contemporary French. Dialect areas.

FR563 French-English Translation
Hours 3
Study of the problems of translation and of translation strategies addressing them, in connection with relevant theoretical approaches.

FR570 Graduate Seminar
Hours 3
In depth study of French or Francophone literature, linguistics, civilization, or a combination. Emphasis on research and analytic skills. May be repeated for credit.
FR580 Special Topics
Hours 3
Special topics in relation to French or Francophone literature, linguistics, civilization, or a combination. Emphasis on research and analytic skills. May be repeated for credit.

FR590 Directed Readings / Directed Study
Hours 1-9
Directed Readings / Directed Study.

FR598 Non-Thesis Research
Hours 1-6
No description available

FR599 Thesis Research
Hours 1-9
No description available

FR643 Poetry of the French Renaissance
Hours 3
Major poets of the Renaissance, with emphasis on Marot, Scève, Louise Labé, du Bellay and Ronsard.

FR670 Graduate Seminar
Hours 3
Graduate seminar with variable topics. May be repeated for credit.

FR680 Special Topics
Hours 1-3
May take the form of either a graduate seminar or individual research, as circumstances warrant. May be repeated for credit when topics vary.

FR699 Dissertation Research
Hours 1-15
No description available

German Courses
GN 551, GN 552, GN 571, and GN 576 may be repeated for credit when the content varies substantially. A period course (GN 515, GN 520, GN 525, GN 535, or GN 540) may vary in emphasis during different semesters; when this is the case, students may take the course a second time, but credit for the course may be applied only once toward the minimum hours required for the degree.

GN503 German Reading Proficiency I
Hours 3
Introduction to German grammar and vocabulary, with emphasis on developing basic reading and translation skills.

GN504 German Reading Proficiency II
Hours 3
Continued study of grammar and vocabulary, with emphasis on further developing reading and translation skills.

GN510 History of the German Language
Hours 3
The relationship to Indo-European and to the other Germanic dialects; linguistic development from the earliest times to the present.

GN514 Teaching Methodology
Hours 3
Analysis of basic concepts and practical applications of foreign language teaching and learning.

GN515 Middle High German
Hours 3
Introduction to the language and literature of the Middle High German period.

GN520 Renaissance and Baroque Literature
Hours 3
Works from the Renaissance (including literature from the Reformation and Humanism) and the Baroque (17th century).

GN525 Literature of the Age of Goethe
Hours 3
Includes the German Enlightenment, Sturm und Drang, Weimar Classicism, and the Romantic movement.

GN535 Early 20th-Century Literature
Hours 3
Includes the Jahrhundertwende, Expressionism, Neue Sachlichkeit, Exilliteratur, and literature of the Third Reich.

GN540 Literature after 1945
Hours 3
The course covers German literature, film and culture after World War II. It has a focus on contemporary German Literature following the fall of the Berlin Wall and German unification in 1990.
Prerequisite(s): None

GN551 Special Problems / Directed Readings
Hours 1-3
Special Problems / Directed Readings.

GN552 Special Problems / Directed Readings
Hours 1-3
Special topics chosen by students in conference with the instructor.

GN571 Selected Authors
Hours 3
Students will normally give reports and write at least one research paper.

GN576 Seminar on a Literary Theme
Hours 3
Students will normally give reports and write at least one research paper.
GN599 Thesis Research
Hours 3-6
No description available

Romance Languages Courses

RL513 Research Methods in Applied Linguistics
Hours 3
The goal of this course is to introduce the student to the research process in foreign language studies and second language acquisition. Emphasis will be on helping the student understand approaches to second language acquisition research, in terms of both quantitative and qualitative approaches and techniques. The student will learn how to submit a proposed research project to the Institutional Review Board for approval. The student will learn to conform to the general organization of a research report, will undertake cognitive and sociocultural approaches to language study, and will critically evaluate published reports representing both quantitative and qualitative research on foreign language learning and language use in journals such as The Modern Language Journal, Applied Linguistics, Language Learning, Foreign Language Annals. The student will design his/her own research procedure based on the development of his/her own research questions. The student will learn to use data collection instruments, to explore theoretical orientations, and to formulate a detailed data analysis plan. The course if repeatable for credit when curriculum varies.

RL518 Historical Linguistics
Hours 3
Advanced introduction to various levels of historical language change. Variety of language families used for examples.

RL523 Quantitative Methods in Linguistics Research
Hours 3
In this course students are introduced to statistical methods that are commonly used in quantitative linguistics research, with examples drawn from a variety of languages and dialects. In doing so, they will gain an understanding of the types of computations involved, as well as a familiarity with some of the software currently used in statistical analysis. Students will also gain experience in how to interpret and explain statistical findings in relation to data sets. The goals of this course are to prepare students to be conversant in basic statistical methods in order to understand published research findings in linguistics, to discuss research design with statistical consultants, and to conduct their own field research projects, targeting any language or dialect, according to common data collection techniques. The course if repeatable for credit when curriculum varies.

RL557 Critical Theory
Hours 3
Study and critical application of literary theory.

RL570 Graduate Seminar
Hours 3
Topics may be in literature, linguistics, civilization, or a combination. Topics may pertain solely to one or more of the Romance Languages or to an array of languages including one or more of the Romance Languages. May be repeated for credit.

RL580 Special Topics
Hours 3
Topics may be in literature, linguistics, civilization, or a combination. Topics may pertain solely to one or more of the Romance Languages or to an array of languages including one or more of the Romance Languages. May be repeated for credit.

RL598 Non-Thesis Research
Hours 1-12
Non-thesis research.

RL599 Thesis Research
Hours 1-12
Thesis research.

RL680 Special Topics
Hours 3
Topics may be interdisciplinary or language-specific. Topics may include literature, linguistics, culture or a combination. A special topics course in Italian or Italian studies is offered on occasion. May be repeated for credit.

RL699 Dissertation Research
Hours 1-15
Dissertation research.

Spanish Courses

SP502 Practicum in Applied Linguistics
Hours 3
In-depth analysis of fundamental concepts in foreign language learning and teaching. Topics include grammar and vocabulary acquisition, classroom discourse, reading and listening comprehension, writing and principles of language testing.

SP503 Reading Proficiency in Spanish I
Hours 3
Introduction to Spanish grammar and vocabulary, with emphasis on developing basic reading and translation skills.

SP504 Reading Proficiency in Spanish II
Hours 3
Continued study of grammar and vocabulary, with emphasis on further developing reading and translation skills.

SP515 Spanish American Colonial Texts
Hours 3
In-depth study of texts from the colonial period, with emphasis on colonialism and the role of writing in colonization and decolonization. Readings may vary. May be repeated for credit when the content varies substantially.

SP516 19th-Century Spanish Literature
Hours 3
In-depth study of major literary works of the period, with emphasis on Romanticism, social Romanticism, and Romantic realism. Readings may vary. May be repeated for credit.

SP521 19th-Century Spanish Prose
Hours 3
Reading and discussion of complete texts representative of the literary movements of the period; lectures and reports.
SP523 Quantitative Methods in Hispanic Linguistics Research
Hours 3
In this course students are introduced to statistical methods that are commonly used in quantitative linguistics research, including Hispanic linguistics. In doing so, they will gain an understanding of the types of computations involved, as well as a familiarity with some of the software currently used in statistical analysis. Students will also gain experience in how to interpret and explain statistical findings in relation to data sets. The goals of this course are to prepare students to be conversant in basic statistical methods in order to understand published research findings in linguistics, to discuss research design with statistical consultants, and to conduct their own field research projects focusing on Hispanic linguistics according to common data collection techniques. The course if repeatable for credit when curriculum varies.

SP526 20th-Century Spanish Novel Post Civil War
Hours 3
Reading and discussion of texts representative of the literary movements of the period. Lectures, discussions, and reports. May be repeated for credit.

SP527 Spanish Women Authors
Hours 3
A selection of short stories, novels, plays, films, and poems by 20th/21st-century Spanish women writers, artists and filmmakers. Repeatable for credit when subject matter varies.

SP528 Historical Memory in Spain
Hours 3
In-depth study of the relationship between history, memory, fiction and identity in Spain. This seminar will explore the reconstruction of the Spanish Civil War and dictatorship as depicted in literature and film.

SP530 Seminar in Contemporary Iberian Culture
Hours 3
Topics will include: National Identity, Immigration, Social Changes, Economic Crisis and Family Dynamics. May be repeated for credit when topics vary.

SP538 Spanish American Short Story
Hours 3
This course offers a critical approach to an extensive corpus of representative texts belonging to the Latin American short story genre. It seeks to provide a theoretical model that understands central aspects of the genre within the context of the formation of national States, for which literature, and literary genres and movements (Romanticism, Realism, and Naturalism) become agents for social change. Repeatable for credit when topics vary.

Prerequisite(s): This course is needed to fill out offerings in the area of Latin American literature.

SP556 Introduction to Spanish Linguistics
Hours 3
Linguistic theory applied to the analysis of the Spanish language. Topics include phonology, morphology, syntax, semantics, and language change and variation.

SP570 Special Topics in Spanish Linguistics
Hours 3
Students are to examine various topics related to Spanish linguistics. Specific topics may be primarily theoretical, applied or descriptive in nature, or a combination, and may be narrowly focused or may pertain to a wide variety of dialects. Weekly in-class discussions based on readings and other assigned activities prepare students for the final project, which is typically both oral and written and which involves the application of the various theoretical, critical and methodological approaches acquired in the seminar.

SP580 Graduate Seminar in Spanish Linguistics
Hours 3
Students are to examine various topics related to Spanish linguistics, theoretical or applied. Weekly in-class discussions based on readings and other assigned activities prepare students for the final project, which is typically both oral and written and which involves the application of the various theoretical, critical and methodological approaches acquired in the seminar.

SP584 Phonetics and Dialectology
Hours 3
Detailed examination of Spanish phonetics including dialectical variations.

SP585 History of the Spanish Language
Hours 3
This course provides students with an examination of the evolution of Spanish from Latin to modern Spanish. Both internal and external factors will be addressed, including sound change, word formation, syntax and vocabulary, as well as influence from other languages. In doing so, students will be able to observe how variation in earlier forms of Spanish has led to the creation of different dialects found in modern Spanish. Students will also have the opportunity to analyze medieval and classical Spanish texts in order to trace the development of Spanish along different levels of linguistic analysis. The role of orthography at the various stages of evolution will also be addressed. Taught in Spanish.

SP590 Open Topics
Hours 3
Special topics courses, with variable subject matter, relating to any area of Spanish language, literature, culture or linguistics/ Repeatable for credit because topics vary.

SP591 Cervantes
Hours 3
Works of Cervantes.

SP593 16th-Century Peninsular Literature
Hours 3
Reading and discussion of selected works of the period.

SP594 17th-Century Peninsular Literature
Hours 3
Reading and discussion of selected works of the period.
SP598 Non-Thesis Research
Hours 1-6
No description available

SP599 Thesis Research
Hours 1-9
No description available

SP600 Research / Directed Readings
Hours 1-6
May take the form of either a graduate seminar or individual research, as circumstances warrant.

SP689 Seminar on Spanish American Literature
Hours 3
Seminar on Spanish American Literature.

SP690 Graduate Seminar
Hours 3
No description available

SP699 Dissertation Research
Hours 1-15
No description available

Faculty
Chair
Douglas Lightfoot

Graduate Program Director
Michael D. Picone

Professors
Corbalán, Ana
Fox, Thomas A.
Picone, Michael D.
Summers, Kirk

Associate professors
Cipria, Alicia
Drewelow, Isabelle
Drozd, Andrew M.
Edmunds, Bruce T.
Janiga-Perkins, Constance
Lazda-Cazers, Rasma
Lightfoot, Douglas
Mayer, Carmen
Moody, Sarah
O'Rourke, Erin
Robin, Jean Luc
Rodeño, Ignacio F.

Tsakiropoulou-Summers, Tatiana
Worden, Bill

Assistant professors
Elnaili, Safa
Feminella, Matthew
Goethals, Jessica
Granja, Xabier
Koronkiewicz, Bryan
Monette, Marie-Eve
Montalbano, Alessandra
Range, Regina
Romanelli, Claudia
Shannon, Kelly

German, MA

Admission Requirements

General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. Applicants to any German concentration are not required to submit an entrance exam score. However, applicants to all programs who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even when it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

For students with deficiencies in undergraduate preparation, admission may be contingent upon completion of designated undergraduate requirements. In particular, all three tracks of the Master of Arts program in German, as described below, presuppose completion of an undergraduate survey of German literature or a survey of German culture/civilization that includes a substantial literary component. Students lacking this requirement who are nevertheless admitted to the German Master of Arts program must make up this course concurrent with their other coursework.

Qualified students can seek dual admission to the School of Law and to any Master of Arts program offered in the Department of Modern Languages and Classics. If admitted to both, the student will be exempted from at least 6 hours of coursework for the Juris Doctor degree.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

The Department of Modern Languages and Classics offers degree programs leading to the master of arts in German, the master of arts in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options. General information is in the Degree Requirements section of this catalog.

The following descriptions of requirements pertain to the three focused areas of study of the German MA program.
**German literature**

Plan I (24 hours of coursework and a thesis) or Plan II (30 hours of coursework, no thesis). In addition to German literature courses, students must take GN 510 History of the German Language and 3 hours of Middle High German. With the approval of the German graduate advisor, 6 hours of graduate work in a related field may be applied to the degree.

**Germanic philology**

Plan I (24 hours of coursework and a thesis) or Plan II (30 hours of coursework, no thesis). In addition to philology courses, students must take 6 hours of German literature. With the approval of the German graduate advisor, 9 hours of graduate work in a related field may be applied to the degree. The focused area of study and courses in Germanic philology are offered subject to availability of qualified faculty.

**German studies**

Plan I (24 hours of coursework and a thesis) or Plan II (30 hours of coursework, no thesis). Students must take 15 hours of German literature/culture and philology courses, 3 hours in German history, and one 3-hour interdisciplinary seminar. With the approval of the German graduate advisor, 9 hours of graduate work in a related field may be applied to the degree.

Regardless of focused area of study, all graduate teaching assistants must enroll in the teaching practicum, currently offered under GN 551 Spec Prob Direct Readings/GN 552 Spec Prob Direct Readings. Upon completing coursework for any of the three focused areas of study in German, a student must pass a comprehensive examination based on the coursework and on a pre-established reading list. For information regarding the examination, please contact the German graduate advisor.

A student who chooses to write a thesis must enroll for six hours of GN 599 Thesis Research with the appropriate thesis director and will defend the thesis orally.

**Master's Degrees**

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.
400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment of Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.
If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Romance Languages - French, MA

Admission Requirements
General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. All applicants to graduate degree programs in the Department of Modern Languages and Classics must submit a writing sample in support of the application. Applicants to any French or Spanish track must also submit an entrance exam score, either the Graduate Record Exam or the Miller Analogies Test, unless the applicant has already earned a graduate degree or has accumulated five or more years of professional experience in an appropriate discipline. Applicants to any German concentration are not required to submit an entrance exam score. However, applicants to all programs who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even when it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

For students with deficiencies in undergraduate preparation, admission may be contingent upon completion of designated undergraduate requirements.

Qualified students who are holders of an appropriate undergraduate degree may be admitted directly to the doctoral program in Romance languages. However, in such circumstances completion of all requirements for the appropriate Master of Arts program, including comprehensive testing and subsequent awarding of the Master of Arts degree, will be a prerequisite for completion of the doctoral degree.

Qualified students can seek dual admission to the School of Law and to any Master of Arts program offered in the Department of Modern Languages and Classics. If admitted to both, the student will be exempted from at least 6 hours of coursework for the Juris Doctor degree.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The Department of Modern Languages and Classics offers degree programs leading to the master of arts in German, the master of arts in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options. General information is in the Degree Requirements section of this catalog.

The following descriptions of requirements pertain to the various focused areas of study of the French Option of the master of arts in Romance languages. For information pertaining to the Romance Languages Option (combining French and Spanish), return to the menu and click on the appropriate link.

Candidates enrolling in the French Option must designate a curriculum: either the standard focused area of study (primarily literary in focus) or the applied linguistics focused area of study. Both areas have thesis and nonthesis versions. Regardless of the area of study, all new graduate teaching assistants must enroll for the Practicum in Applied Linguistics (either FR 512 Practicum Appl Linguist or SP 502 Pract Appl Linguistics).

All focused areas of study include a comprehensive exam. However, the configuration of the exam is specific to each track, as indicated below. All nonthesis areas include a core of five courses in the five areas listed below:

- Teaching Practicum/Topics in Linguistics
- Proseminar: Research Methodology/Critical Theory
- Topics in Culture and Civilization
- Graduate Seminar
- Special Topics/Directed Readings

French Option, standard focused area of study with thesis (Plan I)

Curriculum requirements: 27 hours of coursework and a thesis, including at least one course in five of the following six fields:

- Medieval and Renaissance
- Early modern (17th and 18th centuries)
- 19th century
- 20th and 21st centuries
- Francophone and French studies
- French linguistics

The Romance languages core requirements do not apply to thesis tracks. However, the curriculum must include a course in critical theory. Students must pass a comprehensive examination based on their coursework in the five fields of study. However, for the written component of the exam, students may be exempted from examination in a maximum of two fields (and earn an automatic "pass" in those fields) in three ways: first, by writing a thesis in the field; second, by writing a research paper in the field and presenting it at a professional conference; or third, by satisfactorily completing two courses in the field, earning a grade of "A" or "B." Success on the written component precedes the oral component of the exam, which involves generating an
oral presentation on a topic indicated in advance. Six hours of FR 599 Thesis Research with the thesis director are required beyond the 27 hours of coursework.

French Option, applied linguistics focused area of study with thesis (Plan I)

Curriculum requirements: 30 hours of coursework and a thesis. In addition to the thesis, the applied linguistics track involves three components: language, linguistics, and applied linguistics. The language component consists of 15 hours of course credit in French language, literature, and/or culture.

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<th>Linguistics Component</th>
<th>Hours</th>
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<td>FR 561 French Linguistics</td>
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Applied Linguistics Component

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<td>RL 523 Quantitative Methods in Ling</td>
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<td>other approved courses</td>
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Total Hours 15

The Romance languages core requirements do not apply to thesis tracks. However, the curriculum must include a course in research methodology. Degree requirements include success on a comprehensive examination, which is based on the coursework. From the selection of questions provided, the candidate must generate six written answers (two pertaining to applied linguistics, one pertaining to French linguistics, and three pertaining to electives). Six hours of FR 599 with the thesis director are required beyond the 30 hours of coursework.

French Option, standard focused area of study without thesis (Plan II)

Curriculum requirements: 33 hours of coursework, including at least one course in five of the following six fields:

- Medieval and Renaissance
- Early modern (17th and 18th centuries)
- 19th century
- 20th and 21st centuries
- Francophone and French studies
- French linguistics

Appropriate courses taken in these fields will simultaneously fulfill the Romance languages core requirements listed above. The curriculum must include a course in critical theory. Students must pass a comprehensive examination based on their coursework in the five fields of study. However, for the written component of the exam, students may be exempted from examination in a maximum of two fields (and earn an automatic "pass" in those fields) in two ways: either by writing a research paper in the field and presenting it at a professional conference or by satisfactorily completing two courses in the field, earning a grade of "A" or "B." Success on the written component precedes the oral component of the exam, which involves generating an oral presentation on a topic indicated in advance.

French Option, applied linguistics focused area of study without thesis (Plan II)

Curriculum requirements: 36 hours of coursework. The applied linguistics track involves three components: language, linguistics, and applied linguistics. The language component consists of 21 hours of course credit in French language, literature, and/or culture. The linguistics component is comprised of a 3-hour descriptive linguistics course (FR 561 French Linguistics). The applied linguistics component consists of 12 hours of coursework in second language acquisition pedagogy and research:

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Applied Linguistics Component

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Total Hours 15

Based on the advice of the graduate advisor, appropriate courses taken in these components will simultaneously fulfill the Romance languages core requirements listed above. The curriculum must include a course in research methodology. Degree requirements include success on a comprehensive examination, which is based on the coursework. From the selection of questions provided, the candidate must generate six written answers (two pertaining to applied linguistics, one pertaining to French linguistics, and three pertaining to electives)

Master's Degrees

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of
research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.
The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Romance Languages - French, Ph.D.

Admission Requirements
General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. Applicants to any French or Spanish track must also submit an entrance exam score, either the Graduate Record Exam or the Miller Analogies Test, unless the applicant has already earned a graduate degree or has accumulated five or more years of professional experience in an appropriate discipline. However, applicants to all programs who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even when it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

Qualified students who are holders of an appropriate undergraduate degree may be admitted directly to the doctoral program in Romance languages. However, in such circumstances completion of all requirements for the appropriate Master of Arts program, including comprehensive testing and subsequent awarding of the Master of Arts degree, will be a prerequisite for completion of the doctoral degree.

Qualified students can seek dual admission to the School of Law and to any Master of Arts program offered in the Department of Modern Languages and Classics. If admitted to both, the student will be exempted from at least 6 hours of coursework for the Juris Doctor degree.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

The Department of Modern Languages and Classics offers degree programs leading to the master of arts in German, the master of arts
in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options. General information is in the Degree Requirements section of this catalog.

**The following description of requirements pertains to all doctoral programs involving French.**

In addition to the program-specific requirements presented below, all doctoral candidates, regardless of the option selected, must adhere to the following. The minimal formal coursework required for the doctoral degree is 60 semester hours, which may include up to 30 hours of transferred credits earned at another institution. Appropriate MA hours earned at The University of Alabama can also count toward the total required accumulation of hours. Once all coursework is completed, an additional 24 hours of Dissertation Research (SP 699 Dissertation Research, SP 699 Dissertation Research or RL 699 Dissertation Research) with the dissertation director(s) are required. All doctoral candidates must possess reading knowledge of one language in addition to English, their native language, and their language of specialization.

All doctoral candidates must be careful to fulfill the residency requirement and to abide by the specified time limits (7 years from admission semester; 8 years from admission semester if entering directly from BA) specified in the Degree Requirements of this catalog. Once enrolled, all doctoral candidates must submit a Plan of Study to the Office of the Graduate School and abide by all other policies of the Graduate School. The student's Plan of Study for the PhD degree must be approved by the department and the Graduate School by the time the student completes 30 graduate semester hours of UA and/or transfer course work.

All options of the Doctor of Philosophy in Romance Languages share the same qualifying exam format. This format begins with the creation of a "pre-prospectus" by the candidate, in consultation with the likely eventual dissertation director, followed by take-home questions from a committee of examiners with whom the candidate has had coursework or who have appropriate expertise (the questions may pertain to the coursework or the pre-prospectus, according to the discretion of each examiner), leading directly to the creation of the prospectus as the final product, assuming a successful outcome. The prospectus is then submitted to the prospective dissertation committee for approval.

Regardless of the option, all new graduate teaching assistants must enroll for the appropriate teaching practicum, either FR 512 Practicum Appl Linguist or SP 502 Pract Appl Linguistics.

Candidates interested in a linguistics-oriented curriculum should direct their attention to the Romance Languages Option.

**French Option**

The curriculum is centered on French, though up to 12 hours of coursework in a related discipline is admissible. All new graduate teaching assistants must take FR 512 Practicum Appl Linguist. All candidates must take at least one course from four of the following fields (above and beyond the hours earned for the MA):

- Medieval and Renaissance
- Early modern (17th and 18th centuries)
- 19th century
- 20th and 21st centuries
- Francophone and French studies
- French linguistics

A course in literary theory is also required. Additional coursework will normally be geared toward the anticipated area of specialization for the dissertation. At the conclusion of the coursework, a qualifying examination and the approval of a prospectus outlining the proposed research topic must take place before work on the dissertation can begin.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic
degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. **All doctoral programs:** Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. **PhD Programs Only:** A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or
related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for the other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving
departmental approval of the dissertation subject (although some
departments require the defense of a dissertation proposal and/or writing
one or more preliminary sections of the dissertation as well); and having
the committee recommend the student for Admission to Candidacy for
the Doctoral Degree. The completed candidacy form is submitted to the
Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy,
received approval for the dissertation research proposal, or initiated
enrollment in 699 (dissertation research for a doctoral degree), the
student must pursue completion of the dissertation without interruption
by enrolling each fall and spring semester of the academic year for
at least 3 hours of dissertation research. Summer enrollment for 699
Dissertation Research is expected if the student is working on the
dissertation and using any University facilities or resources, including
faculty time, but the only time summer registration is required for
dissertation research (3 hours minimum) is when a doctoral student is
graduating in August or defending the dissertation during the summer
semester. This is true whether or not the student has formally submitted
an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of
such dissertation work upon completion of the degree. The amount of
dissertation research for which a student enrolls in any given semester
should be commensurate with the progress a student is expected to
make on the dissertation, as well as reflective of the extent to which
University facilities and faculty time are invested in the proposed
activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness,
manageability, and significance of the projected research. The student
formally presents the written proposal to the dissertation committee
and defends it in a meeting with the committee. The proposal normally
includes an introduction giving an overview and stating the significance
of the proposed research, review of the literature, and methodology.
Departments determine the details of the dissertation proposal’s format
with respect to such things as the length of the introduction and detail of
the review of the literature.

Once the student and dissertation chair have developed a proposal, and
the graduate dean has approved the dissertation committee, the student
schedules the dissertation proposal meeting that includes all committee
members. The student cannot propose a dissertation and have its final
defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and
skill in organization, writing, and presentation must be prepared on a
topic in the major field. It must constitute an original contribution to
knowledge. Early in the process, the subject of the dissertation must
be approved by the dissertation committee of the major department or
division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as
its chairperson, supervises the preparation of the dissertation. The
committee shall have no fewer than five members, all of whom are
appointed by the dean of the Graduate School. The graduate dean’s
approval of the proposed dissertation committee is expected to be
obtained before significant progress is made on the dissertation—typically
just before or just after the dissertation proposal meeting. For this
purpose, the student submits the form for Appointment/Change of a
Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA
Graduate Faculty. The committee chair must be a full member of the
Graduate Faculty, as described in the Catalog’s section on Qualifications
of the Graduate Faculty (p. 34). One member must be from outside
the student’s major department. If the outside member is not a full or
associate member of the UA Graduate Faculty (e.g., a highly qualified
person from another university, a business or industry), the graduate
dean needs to appoint that member by approving Temporary Graduate
Faculty status for the specific purpose of serving on the student’s
dissertation committee.

The final oral dissertation defense is the culminating experience in the
doctoral program. As such, all members of the dissertation committee
are expected to attend and participate in real time. Virtual attendance via
interactive video or teleconference is permitted for off-campus external
committee members, but Tuscaloosa campus faculty should attend in
person unless extraordinary circumstances dictate the need for virtual
attendance.

The dissertation must comply with the regulations in A Student Guide
to Preparing Electronic Theses and Dissertations. Graduate School
deadlines, including each semester’s dissertation deadline, are available
at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including
information on what needs to be submitted to the Graduate School. The
graduate dean must approve the dissertation before the student can be
cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral
Students states that once a student qualifies for doctoral candidacy, the
student must enroll each semester for at least 3 hours of dissertation
research. If certain conditions are met for the student’s final
semester, the student may qualify to enroll for fewer than 3 hours of
699 dissertation research. A zero-hour or one-hour 699 registration
is permitted only in the final semester. This exception applies only
to students who registered for at least 3 hours of dissertation (699)
research in the preceding semester and only under the conditions
described in the table below:

<table>
<thead>
<tr>
<th>Final-Semester Dissertation (699) Minimum Registration Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</td>
</tr>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the “University Academic Calendar”)</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
</tr>
</tbody>
</table>
After 4:45 p.m. on the last-possible 3
day to register or add a course
for the student's final semester
(date published in the University
Academic Calendar)

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours–Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which
requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Romance Languages - Spanish, MA
Admission Requirements
General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. All applicants to graduate degree programs in the Department of Modern Languages and Classics must submit a writing sample in support of the application. Applicants to any French or Spanish track must also submit an entrance exam score, either the Graduate Record Exam or the Miller Analogies Test, unless the applicant has already successfully completed a graduate degree or has accumulated a minimum of five years of professional experience in an appropriate discipline. Applicants to any German concentration are not required to submit an entrance exam score. However, regardless of the program, all applicants who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even if it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

For students with deficiencies in undergraduate preparation, admission may be contingent upon completion of designated undergraduate requirements.

Qualified students who are holders of an appropriate undergraduate degree may be admitted directly to the doctoral program in Romance languages. However, in such circumstances completion of all requirements for the appropriate Master of Arts program, including comprehensive testing and subsequent awarding of the Master of Arts degree, will be a prerequisite for completion of the doctoral degree.

Qualified students can seek dual admission to the School of Law and to any Master of Arts program offered in the Department of Modern Languages and Classics. If admitted to both, the student will be exempted from at least 6 hours of coursework for the Juris Doctor degree.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The Department of Modern Languages and Classics offers degree programs leading to the master of arts in German, the master of arts in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options. General information is in the Degree Requirements section of this catalog.

The following descriptions of requirements pertain to the various focused areas of study of the Spanish Option of the master of arts in Romance languages. For information pertaining to the Romance Languages Option (combining Spanish and French), return to the menu and click on the appropriate link.

Candidates enrolling in the Spanish Option must designate a curriculum: either the standard focused area of study (primarily literary in focus) or the applied linguistics focused area of study. Both tracks have thesis and nonthesis versions. Regardless of the option or area of study, all new graduate teaching assistants must enroll for the Practicum in Applied Linguistics (either SP 502 Pract Appl Linguistics or FR 512 Practicum Appl Linguist).

All focused areas of study include a comprehensive exam. However, the configuration of the exam is specific to each area, as indicated below. All nontesis tracks of the master of arts in Romance languages include a core of five courses in the five areas listed below:

- Teaching Practicum/Topics in Linguistics
- Proseminar: Research Methodology/Critical Theory
- Topics in Culture and Civilization
- Graduate Seminar
- Special Topics/Directed Readings

Spanish Option, Hispanic literature focused area of study with thesis (Plan I)
Curriculum requirements: 24 hours of coursework and a thesis, including at least one course in each of the following eight fields (courses in transatlantic studies can count as either modern peninsular or Latin American):

- Golden Age
- 19th-century peninsular
- 20th- and 21st-century peninsular
- Colonial Latin America
- 19th-century Latin America
- 20th- and 21st-century Latin America
- US Latino studies
- Hispanic linguistics

The Romance languages core requirements do not apply to thesis tracks. However, the curriculum must include either a course in critical theory or a literature course designated as theory enriched. In consultation with the Spanish graduate advisor, each student must also select a special area of interest in Hispanic literature in order to write the thesis. Degree requirements include success on the written comprehensive examination. No oral component is required. The six-part written examination will be based both on coursework and a reading list in each area. Students are required to take exams in the following areas: either three Peninsular areas (of the student’s choosing) and two Latin American areas (of the student’s choosing) or vice versa, and one area of linguistics. From the selection of questions provided, the candidate must generate six written answers. Six hours of SP 599 Thesis Research with the thesis director are required beyond the 24 hours of coursework. It is the student’s responsibility to keep syllabi from each course on file for reference.
Spanish Option, applied linguistics focused area of study with thesis (Plan I)

Curriculum requirements: 30 hours of coursework and a thesis. In addition to the thesis, the applied linguistics area involves three components: language, linguistics, and applied linguistics. The language component consists of 15 hours of course credit in Spanish language, literature, and culture (a minimum of 6 hours must be in peninsular literature and 6 hours in Latin-American literature).

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<thead>
<tr>
<th>Hours</th>
<th>Linguistics Component</th>
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<tbody>
<tr>
<td>3</td>
<td>SP 556 Intro Spanish Linguistics</td>
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<tr>
<td>3</td>
<td>SP 502 Pract Appl Linguistics</td>
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<td>Select three of the following:</td>
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<tr>
<td>9</td>
<td>SP 523 Quantitative Methods Span Ling</td>
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<td>SP 581 Topics 2nd Lang Acquistn</td>
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<td></td>
<td>RL 513 Methods in App Ling</td>
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<td></td>
<td>other approved courses</td>
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</table>

The Romance languages core requirements do not apply to thesis tracks. However, the curriculum must include a course in research methodology. Degree requirements include success on a comprehensive examination, which is based on the coursework. From the selection of questions provided, the candidate must generate six written answers (two pertaining to applied linguistics, one pertaining to Spanish linguistics, one pertaining to peninsular literature, one pertaining to Latin American literature, and one pertaining to an elective). Six hours of SP 599 with the thesis director are required beyond the 30 hours of coursework.

Spanish Option, Hispanic literature focused area of study without thesis (Plan II)

Curriculum requirements: 30 hours of coursework, including one course in each of the following areas, and two courses in Hispanic linguistics (courses in transatlantic studies can count as either modern peninsular or Latin American):

- Golden Age
- 19th-century peninsular
- 20th- and 21st-century peninsular
- Colonial Latin America
- 19th-century Latin America
- 20th- and 21st-century Latin America
- US Latino studies

It is mandatory to earn 27 credits within the Spanish program. Optionally, three credits may be earned outside the Spanish program. Based on the advice of the graduate advisor, appropriate courses taken in these components will simultaneously fulfill the Romance languages core requirements listed above. The curriculum must include either a course in critical theory or else a literature course designated as theory enriched. Degree requirements include success on the written comprehensive examination. No oral component is required. The six-part written examination will be based both on coursework and a reading list in each area. Students are required to take exams in the following areas: either three Peninsular areas (of the student's choosing) and two Latin American areas (of the student's choosing) or vice versa, and one area of linguistics. From the selection of questions provided, the candidate must generate six written answers. It is the student's responsibility to keep syllabi from each course on file for reference.

Spanish Option, applied linguistics focused area of study without thesis (Plan II)

Curriculum requirements: 36 hours of coursework. The applied linguistics area of study involves three components: language, linguistics, and applied linguistics. The language component consists of 21 hours of course credit in Spanish language, literature, and culture (a minimum of 6 hours must be in peninsular literature and 6 hours in Latin-American literature).

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<tbody>
<tr>
<td>3</td>
<td>SP 556 Intro Spanish Linguistics</td>
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<tr>
<td>3</td>
<td>SP 502 Pract Appl Linguistics</td>
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<td>Select three of the following:</td>
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<td>SP 523 Quantitative Methods Span Ling</td>
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<td></td>
<td>RL 513 Methods in App Ling</td>
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<td></td>
<td>other approved courses</td>
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</tbody>
</table>

Based on the advice of the graduate advisor, appropriate courses taken in these components will simultaneously fulfill the Romance languages core requirements listed above. The curriculum must include a course in research methodology. Degree requirements include success on a comprehensive examination, which is based on the coursework. From the selection of questions provided, the candidate must generate six written answers (two pertaining to applied linguistics, one pertaining to Spanish linguistics, one pertaining to peninsular literature, one pertaining to Latin American literature, and one pertaining to an elective).

Master's Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem

<table>
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<tr>
<th>Total Hours</th>
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<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

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courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of the University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate
The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Romance Languages - Spanish, Ph.D.
Admission Requirements
General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. Applicants to any French or Spanish track must also submit an entrance exam score, either the Graduate Record Exam or the Miller Analogies Test, unless the applicant has already earned a graduate degree or has accumulated five or more years of professional experience in an appropriate discipline. However, applicants to all programs who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even when it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

Qualified students who are holders of an appropriate undergraduate degree may be admitted directly to the doctoral program in Romance languages. However, in such circumstances completion of all requirements for the appropriate Master of Arts program, including comprehensive testing and subsequent awarding of the Master of Arts degree, will be a prerequisite for completion of the doctoral degree.

Qualified students can seek dual admission to the School of Law and to any Master of Arts program offered in the Department of Modern Languages and Classics. If admitted to both, the student will be exempted from at least 6 hours of coursework for the Juris Doctor degree.

See the Admission Criteria section of this catalog for more information.
Degree Requirements

The Department of Modern Languages and Classics offers degree programs leading to the master of arts in German, the master of arts in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options (see below). General information is in the Degree Requirements section of this catalog.

The following description of requirements pertains to all doctoral programs involving Spanish.

In addition to the program-specific requirements presented below, all doctoral candidates, regardless of the option selected, must adhere to the following.

The minimal formal coursework required is 60 semester hours, which may include up to 30 hours of transferred credits earned at another institution. Appropriate MA hours earned at The University of Alabama can also count toward the total required accumulation of hours. Students who have completed a master’s thesis need accumulate only 54 hours of coursework. Once all coursework is completed, an additional 24 hours of Dissertation Research (FR 699 Dissertation Research, SP 699 Dissertation Research or RL 699 Dissertation Research) with the dissertation director(s) are required. All doctoral candidates must possess reading knowledge of one language in addition to English, their native language, and their language of specialization.

All doctoral candidates must be careful to fulfill the residency requirement and to abide by the specified time limits (7 years from admission semester, 8 years from admission semester if entering directly from BA) specified in the Degree Requirements of this catalog. Once enrolled, all doctoral candidates must submit a Plan of Study to the Office of the Graduate School and abide by all other policies of the Graduate School. The student’s Plan of Study for the PhD degree must be approved by the department and the Graduate School by the time the student completes 30 graduate semester hours of UA and/or transfer course work.

All options of the Doctor of Philosophy in Romance Languages share the same qualifying exam format. This format begins with the creation of a “pre-prospectus” by the candidate, in consultation with the likely eventual dissertation director, followed by take-home questions from a committee of examiners with whom the candidate has had coursework or who have appropriate expertise (the questions may pertain to the coursework or the pre-prospectus, according to the discretion of each examiner), leading directly to the creation of the prospectus as the final product, assuming a successful outcome. The prospectus is then submitted to the prospective dissertation committee for approval.

Regardless of the option, all new graduate teaching assistants must enroll for the appropriate teaching practicum, either FR 512 Practicum Appl Linguist or SP 502 Pract Appl Linguistics.

Candidates interested in a linguistics-oriented curriculum should direct their attention to the Romance Languages Option.

Spanish Option

The curriculum is centered on Spanish, though up to 12 hours of coursework in a related discipline is admissible. All new graduate teaching assistants must take SP 502 Pract Appl Linguistics. All candidates must take at least one course from four of the following fields (above and beyond the hours earned for the MA):

- 16th-17th century peninsular (Golden Age)
- 19th-century peninsular
- 20th- and 21st-century peninsular
- Colonial Latin American
- 19th-century Latin American
- 20th- and 21st-century Latin American
- US Latino studies
- Transatlantic studies

A course in literary theory is also required. Additional coursework will normally be geared toward the anticipated area of specialization for the dissertation. At the conclusion of the coursework, a qualifying examination and the approval of a prospectus outlining the proposed research topic must take place before work on the dissertation can begin.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.
Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be
applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice.
Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal's format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the <em>University Academic Calendar)</em></td>
<td>0</td>
</tr>
</tbody>
</table>

The dissertation subject must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School. The completed dissertation form is submitted to the Graduate School well in advance of the final semester.
Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results
of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Romance Languages, MA

Admission Requirements
General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. All applicants to graduate degree programs in the Department of Modern Languages and Classics must submit a writing sample in support of the application. Applicants to any French or Spanish track must also submit an entrance exam score, either the Graduate Record Exam or the Miller Analogies Test, unless the applicant has already successfully completed a graduate degree or has accumulated a minimum of five years of professional experience in an appropriate discipline. Applicants to any German concentration are not required to submit an entrance exam score. However, regardless of the program, all applicants who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even if it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

For students with deficiencies in undergraduate preparation, admission may be contingent upon completion of designated undergraduate requirements.

Qualified students who are holders of an appropriate undergraduate degree may be admitted directly to the doctoral program in Romance languages. However, in such circumstances completion of all requirements for the appropriate Master of Arts program, including comprehensive testing and subsequent awarding of the Master of Arts degree, will be a prerequisite for completion of the doctoral degree.

Qualified students can seek dual admission to the School of Law and to any Master of Arts program offered in the Department of Modern Languages and Classics. If admitted to both, the student will be exempted from at least 6 hours of coursework for the Juris Doctor degree.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The Department of Modern Languages and Classics offers degree programs leading to the master of arts in German, the master of arts in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options. General information is in the Degree Requirements section of this catalog.

The following descriptions of requirements pertain only to the Romance Languages Option (combining French and Spanish) of the Master of Arts in Romance Languages. For the French Option or the Spanish Option of the Master of Arts in Romance Languages, return to the menu and click on the appropriate link.

The Romance Languages Option (combining French and Spanish) has a thesis track and a nonthesis track. Regardless of the option or track, all new graduate teaching assistants must enroll for the Practicum in Applied Linguistics (either FR 512 Practicum Appl Linguist or SP 502 Pract Appl Linguistics).

All tracks include a comprehensive exam. However, the configuration of the exam is specific to each track, as indicated below.

All nonthesis options and tracks of the master of arts in Romance languages incorporate a core of five courses in the five areas listed below:

- Teaching Practicum/Topics in Linguistics
- Proseminar: Research Methodology/Critical Theory
- Topics in Culture and Civilization
- Graduate Seminar
- Special Topics/Directed Readings

Romance Languages Option (combining French and Spanish), without thesis (Plan II)

Curriculum requirements: 30 - 36 hours of coursework. The curriculum requires study of French and Spanish, one as the major and one as the minor. The major includes a minimum of 18 hours. The minor includes a minimum of 12 hours. More than the minimum is recommended for both the major and the minor. The selection of courses is unconstrained (there are no required fields), except for the following: if the overall focus is literary, the candidate must take a course in critical theory; if the overall focus is linguistic, the candidate must take a course in research methodology; if the candidate is a Graduate Teaching Assistant in either French or Spanish, then the candidate must accumulate no fewer than 18 credit hours in the respective language during the first two semesters of enrollment and must enroll in the appropriate Practicum in Applied Linguistics (either FR 512 or SP 502). Graduate courses in Italian studies are available on occasion (see the RL prefix in course listings). Based on the advice of the graduate advisor, the appropriate courses taken will fulfill the Romance languages core requirements listed above. Degree requirements include success on a comprehensive examination, which is based on the coursework. From the selection of questions provided, the candidate must generate six written answers (four pertaining to the major and two pertaining to the minor; however, if the candidate has 18 or more hours in both French and Spanish, then the candidate will generate three written answers for each).
Romance Languages Option (combining French and Spanish), with thesis (Plan I)
Curriculum requirements: 24 - 30 hours of coursework and a thesis. The curriculum requires study of French and Spanish, one as the major and one as the minor. The major includes a minimum of 18 hours. The minor includes a minimum of 12 hours. More than the minimum is recommended for both the major and the minor. The selection of courses is unconstrained (there are no required fields), except for the following: if the overall focus is literary, the candidate must take a course in critical theory; if the overall focus is linguistic, the candidate must take a course in research methodology; if the candidate is a Graduate Teaching Assistant in either French or Spanish, then the candidate must accumulate no fewer than 18 credit hours in the respective language during the first two semesters of enrollment and must enroll in the appropriate Practicum in Applied Linguistics (either FR 512 or SP 502). Graduate courses in Italian studies are available on occasion (see the RL prefix in course listings). Degree requirements include success on written and oral comprehensive examinations. All examinations are based on the coursework. From the selection of questions provided, the candidate must generate six written answers (four pertaining to the major and two pertaining to the minor; however, if the candidate has 18 or more hours in both French and Spanish, then the candidate will generate three written answers for each). Six hours of Thesis Research (FR 599 Thesis Research, SP 599 Thesis Research or RL 599 Thesis Research) with the thesis director(s) are required beyond the coursework.

Master's Degrees
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding
the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing
the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Romance Languages, Ph.D.**

**Admission Requirements**

General requirements for admission to the Graduate School are set forth in the Admission Criteria section of this catalog. Applicants to any French or Spanish track must also submit an entrance exam score, either the Graduate Record Exam or the Miller Analogies Test, unless the applicant has already earned a graduate degree or has accumulated five or more years of professional experience in an appropriate discipline. However, applicants to all programs who want to position themselves for possible consideration for additional financial support in the form of an enhanced assistantship or fellowship should submit an entrance exam score, even when it is not required for admission. Applications for both full-time and part-time status are welcome. All applicants seeking full-time student status are considered for financial support in the form of a graduate teaching assistantship.

Qualified students who are holders of an appropriate undergraduate degree may be admitted directly to the doctoral program in Romance languages. However, in such circumstances completion of all requirements for the appropriate Master of Arts program, including comprehensive testing and subsequent awarding of the Master of Arts degree, will be a prerequisite for completion of the doctoral degree.

Qualified students who are holders of a graduate degree may be admitted directly to the doctoral program in Romance languages, and the doctor of philosophy in Romance languages. All three degree programs incorporate a variety of options. General information is in the Degree Requirements section of this catalog.

The following description of requirements pertains to the Romance Languages Option of the doctoral program, which has been designed to afford curriculum flexibility. For the standard doctoral programs in either French or Spanish, return to the menu and click on the appropriate option.

In addition to the program-specific requirements presented below, all doctoral candidates, regardless of the option selected, must adhere to the following.

The minimal formal coursework required for the doctoral degree is 60 semester hours, which may include up to 30 hours of transferred credits earned at another institution. Appropriate MA hours earned at The University of Alabama can also count toward the total required accumulation of hours. Students who have completed a master’s thesis need accumulate only 54 hours of coursework. Once all coursework is completed, an additional 24 hours of Dissertation Research (FR 699 Dissertation Research, SP 699 Dissertation Research or RL 699 Dissertation Research) with the dissertation director(s) are required. All doctoral candidates must possess reading knowledge of one language in addition to English, their native language, and their language of specialization.

All doctoral candidates must be careful to fulfill the residency requirement and to abide by the specified time limits (7 years from admission semester; 8 years from admission semester if entering directly from BA) specified in the Degree Requirements of this catalog. Once enrolled, all doctoral candidates must submit a Plan of Study to the Office of the Graduate School and abide by all other policies of the Graduate School. The student’s Plan of Study for the PhD degree must be approved by the department and the Graduate School by the time the student completes 30 graduate semester hours of UA and/or transfer course work.

All options of the Doctor of Philosophy in Romance Languages share the same qualifying exam format. This format begins with the creation of a “pre-prospectus” by the candidate, in consultation with the likely eventual dissertation director, followed by take-home questions from a committee of examiners with whom the candidate has had coursework or who have appropriate expertise (the questions may pertain to the coursework or the pre-prospectus, according to the discretion of each examiner), leading directly to the creation of the prospectus as the final product, assuming a successful outcome. The prospectus is then submitted to the prospective dissertation committee for approval.

Regardless of the option, all new graduate teaching assistants must enroll for the appropriate teaching practicum, either FR 512 Practicum Appl Linguist or SP 502 Pract Appl Linguistics.

Candidates interested in a linguistics-oriented curriculum, or in a double major combining French and Spanish, or in a curriculum including an enhanced major in an allied discipline should direct their attention to the Romance Languages Option described below. For standard literature-oriented doctoral options in either French or Spanish, return to the menu and click on the appropriate link.

**Romance Languages Option**

The Romance languages option allows for interdisciplinary work tailored according to the needs of the candidate, in consultation with the appropriate advisors. The goal is to meet the interests and career requirements of the candidate by utilizing the full resources of the department and of cognate graduate programs offered by the University. Regardless of the curriculum, the Romance languages option must conform to the following structure.
All Romance languages option students must major in either French or Spanish.

All Romance languages option students must have, in addition to the major in French or Spanish, either
1. an 18-hour minor in another discipline, or
2. a second major in French or Spanish (in other words, a double major), or
3. a second, 30-hour concentration in linguistics

1. All Romance languages option candidates choosing the 18-hour minor must also include in their coursework (above and beyond the hours earned for the MA) at least one additional course in four of the five following main fields in their major:

For Spanish (courses in transatlantic studies can count as either modern peninsular or Latin American)
- Golden Age
- 19th-century peninsular
- 20th- and 21st-century peninsular
- Colonial Latin America, or 19th-century Latin America
- 20th- and 21st-century Latin America, or US Latino studies

For French
- Medieval and Renaissance
- Early modern (17th and 18th centuries)
- 19th century
- 20th and 21st centuries
- Francophone and French studies

A course in literary theory is also required. Additional coursework will normally be geared toward the anticipated area of specialization for the dissertation.

The 18-hour minor can be in any field for which a feasible curriculum can be assembled (French, Spanish, German, Latin-American studies, Italian studies, Renaissance studies, English, TESOL, linguistics, etc.). A feasible curriculum is defined as any curriculum for which the appropriate coursework at The University of Alabama is readily available and accessible and for which the candidate has the commensurate background. Up to 12 of the 18 hours in the minor may be transferred from previous MA coursework conducted on another campus. The full 18 hours can be transferred from a previous MA earned at The University of Alabama. Some courses can be used to simultaneously satisfy requirements for both the major and the 18-hour minor. For example, a student majoring in French and minoring in Renaissance studies can use a French course on the Renaissance to satisfy requirements for both the major and the minor.

2. All Romance languages option candidates choosing the double major have maximal flexibility in course selection. There is no slate of required courses for either of the two majors. The candidate must simply amass 30 hours (including transferred MA hours) in each of the two languages. However, the requirement of taking either the French or the Spanish teaching practicum for all new Graduate Teaching Assistants remains in force (FR 512 Practicum Appl Linguist or SP 502 Pract Appl Linguistics), and a course in either literary theory or linguistic research methods, as appropriate to the student's curricular orientation and the direction of the anticipated dissertation, also remains in force. A maximum of 18 hours in either language (French or Spanish) can be transferred from a prior MA to satisfy requirements towards either major in the double-major track.

3. All Romance languages option candidates seeking a linguistics-oriented curriculum, a 30-hour interprogrammatic concentration in linguistics, in addition to the major in French or Spanish, is an alternative option. For those students opting for the 30-hour concentration in linguistics (including transferred MA credits), the coursework for the major in French or Spanish, which must also comprise a minimum of 30 hours (including transferred MA credits), is not constrained and may include any combination of courses. The coursework for the concentration in linguistics will be determined in consultation with the appropriate graduate advisor. However, a course in linguistic research methods is required. In most cases, the greater part of the linguistics curriculum will be in the area of applied linguistics because graduate coursework in that area is available on a consistent basis in the Department of Modern Languages and Classics as well as in the Department of English and in the College of Education. Some graduate courses in descriptive and theoretical linguistics are also available in the Department of Modern Languages and in the departments of English and Anthropology. On occasion, appropriate linguistics coursework is also available in the Department of Communicative Disorders, the Department of Communication Studies, and elsewhere.

Some courses can be counted as either part of the major or part of the linguistics concentration, depending upon the student's programmatic needs. For example, a student majoring in Spanish and having a 30-hour linguistics concentration can count a course on Spanish linguistics as either part of the major or part of the linguistics concentration in order to free up additional hours in the category that best serves the student's programmatic needs. In all cases, a minimum of 60 hours of graduate credit must be accumulated (54 hours for students with an MA thesis).

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan
of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**
A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and
summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits
All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request
Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student's department, college, or school. All doctoral students must have a completed Plan of Study and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.
Preliminary or Comprehensive Examination

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after
- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.
Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the “completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the “University Academic Calendar”)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorsates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours–Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human...
Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

**Final Examinations**
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

**Application for Graduation**
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

**Clearing the Academic Record for Commencement**
At least one week before commencement, the candidate’s record must have been cleared for graduation.

**Attendance at Commencement**
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

**Withholding or Withdrawing an Advanced Degree**
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

**School of Music (MUS)**
The College of Education offers the MA, the EdS, the EdD, and the PhD in Secondary Education (Music Education emphasis). Information concerning these degrees will be found in this catalog in the College of Education (p. 380) section.

- Majors
  - Music (DMA) (p. 210)
  - Music (MM) (p. 213)

MUS501 Intro Grad Stdy In Mus
Hours 3
An introduction to the basic bibliographic tools and research techniques in music. Offered fall semester.

MUS502 Film Scoring
Hours 3
A study of the art of scoring music for films. The course will examine aesthetics of film scoring and apply it in this course. Offered fall semester.

MUS503 Advanced Counterpoint
Hours 3
The analysis and writing of fugue, ground bass, variation, and canon. Offered spring semesters of even-numbered years.

MUS504 Intro Structurl Analysis
Hours 3
Analysis of literature from the 18th through 20th centuries. Analysis focuses on harmonic and contrapuntal techniques, rudimentary linear reduction concepts, harmonic reduction, and form. Offered spring semester.

MUS505 Studio Tech Arrang Orchn
Hours 3
This course is an approach to arranging and orchestration in both jazz and commercial settings. The emphasis will be placed on writing for the studio orchestra, MIDI instrumentation, and vocal groups with a focus on the 4- to 6-piece group (jazz and commercial). Offered fall semester.

MUS510 Advanced Arranging
Hours 3
Study of current techniques in arranging, including use of symmetrical scales and chords, pedal points, polytonality and planing techniques. Offered spring semester.

MUS514 Tech Electronic Music II
Hours 3
Advanced analog recording, editing, and mixing techniques, sampling, and digital synthesizers. Offered spring semesters of even-numbered years.

MUS516 Problems In Mu Theory
Hours 3
Selected analytical topics in music theory presented in seminar. Offered spring semester and according to demand.

MUS517 Special Topics in Music Composition
Hours 3
Music students have no doubt heard many works of Handel, Vivaldi, and Bach. Their music is played all across the world in concert halls, movie theaters, living rooms, and fastfood chains. These works have given many people the most profound musical experiences of their lives, and they remain cultural landmarks. Baroque fugues especially amaze and fascinate us. As Alfred Mann puts it, “The term fugue...suggests...the most intricate expression of the complex language of Western music.” As musicians, we are fortunate to be able to play and study this music and once we have studied it, we not only admire it but we begin to understand why it is so powerful. Counterpoint is a welldefined discipline with a long tradition that is central to the study of all music. By studying it, we not only reenact the activities of Baroque musicians (especially church organists, who had to be able to improvise choral preludes and fugues) but also of later composers. The works of Mozart, Haydn, Beethoven, Mendelssohn, Schumann, Brahms, Schoenberg, Webern, and Hindemith would not be what they are without a solid grounding in Baroque counterpoint. (from Peter Schubert’s and Christoph Niedhöfer’s textbook, "Baroque Counterpoint," adapted)3.

MUS518 Schenkerian Analysis
Hours 3
Linear and graphic analytical and reductive techniques according to the theoretical constructs, practices, and examples of Heinrich Schenker. Offered fall semesters of odd-numbered years.
MUSS19 Adv Composition I  
Hours 3  
Creation of large-scale musical compositions. Offered fall and spring semesters and on demand.

MUSS20 Adv Composition II  
Hours 3  
Creation of large-scale musical compositions. Offered fall and spring semesters and on demand.

MUSS27 Studies In Special Lit  
Hours 3  
Materials vary each semester. May be repeated for credit up to four semesters.

MUSS31 Coll Teach Music High Ed  
Hours 3  
Developing competencies and understandings that will contribute to one's becoming a more effective college music instructor. Offered in summer.

MUSS32 Graduate Diction Review  
Hours 3  
This course is an intensive review of undergraduate diction designed for graduate students who did not perform adequately on the Diction Diagnostic examination at matriculation. A grade of no lower than C must be earned in this course if the student is to satisfy the requirement for mediation.

Prerequisite(s): In order to register for this course, the student must have been accepted into the MM or DMA program in Vocal Performance.

MUSS34 Renaissance Proseminar  
Hours 3  
An intensive study of the music, the composers, the diverse styles, genres, and techniques, the theoretical and aesthetic principles, and the performance practices associated with music of the Renaissance via reading, listening, and musical analysis.

MUSS35 Baroque Proseminar  
Hours 3  
An intensive study of the music, the composers, the diverse styles, genres, and techniques, the theoretical and aesthetic principles, and the performance practices associated with Baroque music via reading, listening, and musical analysis.

MUSS36 Prosem Opera History Lit  
Hours 3  
Survey of operatic styles from the 17th to the 20th centuries via discussion and analysis of selected works.

MUSS37 Analy 20th Cent Music I  
Hours 3  
Detailed analysis of selected non-serial works of the 20th century. Offered fall semesters of odd-numbered years.

MUSS38 Introduction to Atonal Theory  
Hours 3  
This course is aimed at advanced graduate students and is intended as an introduction to atonal music and to the theoretical literature which attempts to address that music.

MUSS40 Pedagogy Of Theory  
Hours 3  
A study of teaching music theory to college undergraduates and the practical application of pedagogical principles in the classroom. Offered spring semesters of odd-numbered years.

MUSS42 Graduate French Diction  
Hours 2  
Advanced study of French diction for singers, including IPA and practical application. Offered on demand.

MUSS43 Graduate German Diction  
Hours 2  
Advanced study of German diction for singers, including IPA and practical application. Offered on demand.

MUSS45 Graduate Vocal Pedagogy  
Hours 3  
A detailed study of the historical and contemporary methods of pedagogy, and analysis of pedagogical problems.

MUSS46 Spanish Diction  
Hours 3  
This course entails the in-depth study and practice of Spanish lyric diction – its rules, exceptions, and special circumstances. Both Castilian and Latin American diction will be introduced.

Prerequisite(s): Students registering in this course should have had an undergraduate course in lyric singing diction and be familiar with the International Phonetic Alphabet.

MUSS47 Russian Diction  
Hours 3  
This course entails the in-depth study and practice of Russian lyric diction – its rules, exceptions, and special circumstances.

Prerequisite(s): Students registering in this course should have had an undergraduate course in lyric singing diction and be familiar with the International Phonetic Alphabet.

MUSS49 Prosem Music Medievl Pd  
Hours 3  
An intensive study of the music, theoretical and aesthetic principles, and the culture of the Medieval period via reading, listening, musical analysis, and discussion.

MUSS50 Prosem Music Classic Era  
Hours 3  
An intensive study of the music, theoretical and aesthetic principles, and the culture of the Classical period via reading, listening, musical analysis, and discussion.

MUSS52 Directed Studies Piano  
Hours 1-3  
Independent research projects in piano pedagogy. Offered each semester.
MUS553 Prosem Music Romantic Pd
Hours 3
An intensive study of the music, the composers, the diverse styles and techniques, the theoretical and aesthetic principles, and the performance practices associated with music of the 19th century via reading, listening, and musical analysis.

MUS554 Proseminar In Jazz
Hours 3
A study of jazz history and performance practices as applied to the performing musician and educator via transcription, analysis and research. Offered spring semester.

MUS555 Prosem Music 20th Century
Hours 3
An intensive study of the music, the composers, the diverse styles and techniques, the theoretical and aesthetic principles, and the performance practices associated with music composed after 1900 via reading, listening, and musical analysis.

MUS556 Spec Topics Musicology
Hours 3
Advanced study of a selected topic in musicology. Offered on demand.

MUS561 Hy Wind Band Trad Lit
Hours 3
Comprehensive study of band history from the Renaissance to the present, together with a survey of early and traditional wind works of Mozart, Mendelssohn, Berlioz, Holst, Grainger, Poulenc and others. Offered fall semesters and during the first summer terms of even-numbered years.

MUS562 Contemp Wind Ensemble Lit
Hours 3
Detailed examination of wind ensemble literature since 1950, with emphasis on performance analysis and conducting techniques in the works of Schuller, Hindemith, Persichetti, Schwantner, Penderecki, Bassett, Krenek and others. Offered spring semesters and during the first summer terms of odd-numbered years.

MUS563 Projects In Wind Music
Hours 3
Survey of rehearsal techniques and studies in wind performance practices and transcription. Offered fall and spring semesters and during the first summer term.

MUS564 Wind Ensemble Pract I
Hours 2
Students are required to participate as conducting assistants and, if assigned, as performers in an instrumental ensemble. Offered fall semester.

MUS565 Wind Ensemble Pract II
Hours 2
Continuation of Wind Ensemble Practicum I. Offered spring semester.

MUS566 Sem Wind Lit-Chambr Form
Hours 2
An analytical survey of the content and performance practices of selected wind ensemble literature for chamber groups.

MUS567 Choral Literature 1450-1750
Hours 2
In-depth survey of choral literature up to 1750. Offered spring semesters of odd-numbered years.

MUS568 Choral Lit 1750-Present
Hours 2
In-depth survey of choral literature since 1750. Offered spring semesters of even-numbered years.

MUS574 Graduate Vocal Literature I
Hours 3
In-depth survey of the performance criteria and historical significance of solo vocal literature of the United States, British Isles, Germany, Austria, France, Italy, Spain, and Central/South American. Offered in Alternate years.
Prerequisite(s): MUS 474 and MUS 475

MUS577 Adv Organ Literature I
Hours 3
A survey of the literature of the organ from the 15th to the 18th centuries. Offered fall semesters of even-numbered years.

MUS578 Adv Organ Literature II
Hours 3
A survey of the literature of the organ from the 18th century to the present. Offered spring semesters of odd-numbered years.

MUS581 Liturgy Arts Worship Practices
Hours 2
A study of the relationship between liturgy, music, and other related arts, both in history and current practice.

MUS582 Hymnody
Hours 2
A study of the history and structure of hymn texts and music with special emphasis on the 20th and 21st centuries.

MUS583 Church Music Practicum
Hours 1
A course intended to introduce basic materials and to review and develop service-playing skills and interpersonal skills needed by church musicians. Special emphasis given to the accompaniment of choral works, the conducting of those works from the organ console, and improvisation.

MUS591 Readings in Music History
Hours 3
Readings in Music History.

MUS592 Adv Choral Conducting
Hours 3
Representative literature from all periods is studied and conducted. Conducting techniques, rehearsal and vocal techniques, diction, performance practice, and score analysis are emphasized. Offered each semester. May be repeated for credit with varied repertoire.
MUSS94 Adv Instrumental Conduct  
Hours 3  
Baton technique, score reading, analysis, interpretation, rehearsal techniques and instrumental problems in a few selected scores. Offered spring semester.

MUSS95 Graduate Theory Review  
Hours 3  
Intensive review of freshman and sophomore music theory designed for graduate students who do not perform adequately on the Music Theory diagnostic examination at matriculation.

MUSS96 Comprehensive Examination  
Hours 0  
All master of music students are required to register for this course at the beginning of the semester during which they take the comprehensive examination. A grade will be determined entirely by an assessment of the student’s performance on the comprehensive examination and will either be pass or fail. The course may be repeated once and must be passed if the student is to graduate.

MUSS97 Oral Examination  
Hours 0  
All master of music students are required to register for this course at the beginning of the semester during which they take the oral examination. A grade will be determined entirely by an assessment of the student’s performance on the oral examination and will either be pass or fail. The course may be repeated once and must be passed if the student is to graduate.

MUSS98 Non-Thesis Research  
Hours 1-12  
No description available

MUSS99 Thesis Research  
Hours 1-6  
No description available

MUS608 Structur Analysis III  
Hours 3  
Application of Schenkerian methodologies to large-scale tonal works. Offered spring semesters of even-numbered years.

MUS609 Serialism  
Hours 3  
This course is designed for advanced graduate students and is intended as an introduction to serial music and to the theoretical literature which attempts to address that music.  
Prerequisite(s): MUS 538 or permission of the instructor

MUS619 Adv Composition III  
Hours 4  
No description available

MUS620 Adv Composition IV  
Hours 4  
No description available

MUS622 Sem Medieval Renaiss Mus  
Hours 3  
An intensive study of a specific topic associated with Medieval and/or Renaissance music. Topic varies.

MUS625 Seminar Romantic Music  
Hours 3  

MUS626 Sem Twentieth Cent Music  
Hours 3  
An intensive study of a specific topic associated with music written in the 20th century. Topic varies.

MUS640 Opera Pedagogy and Stage Direction I  
Hours 3  
This two-course sequence is designed for graduate students interested in teaching opera stage craft and in opera stage direction. Opera Pedagogy and Stage Direction I will primarily focus on administration and teaching within an Opera Workshop training and performing program.  
Prerequisite(s): One semester each of MUA 560 (Opera Workshop) and MUA 561 (Opera Production) is required.

MUS642 Vocal Pedagogy  
Hours 3  
An analytical survey of voice teaching with emphasis on practical application. Offered on demand.

MUS643 Brass Wdwind Strg Pedagy  
Hours 3  
Intended to teach doctoral students how to be successful in applied studio teaching at the collegiate and preparatory level. The focus of the course will be specific relative to the student’s major instrument. Offered each semester.

MUS650 Wind Conduct Pedagogy  
Hours 3  
A practical and theoretical study of conducting instruction.

MUS651 Choral Conduct Pedagogy  
Hours 3  
A practical and theoretical study of conducting instruction.

MUS652 Special Topics Vocal Lit I  
Hours 3  
In-depth survey of the performance criteria and historical significance of selected repertoire from the solo vocal literature.  
Prerequisite(s): MUS 474 and MUS 475

MUS653 Special Topics - Vocal Lit I  
Hours 3  
Students will acquire a basic working knowledge of standard solo art song by composers from Great Britain and France.
MUS668 Seminar in Wind Literature Chamber Forms
Hours 2
Chamber Wind Ensembles are small groups of wind players/percussion/keyboard musicians (usually less than twenty) in which only one musician is playing each part. Sometime these ensembles utilize a conductor while other times they do not. MUS 668 is an in-depth look at several of the most significant pieces from the vast quantity of repertoire written for chamber wind ensembles. The works to be studied were selected based on: the works intrinsic value, an effort to include representative works by historical period, an effort to include representative works by instrumentation, an effort to include representative works by country and the instructor’s firsthand knowledge of the works through performance.

MUS669 Seminar in Wind Literature Large Forms
Hours 2
The Seminar in Wind Literature, Large Forms, focuses on a particular genre, composer or style period within the wind band repertoire. The seminar for Spring 2014 will explore the music of David Maslanka. Mr. Maslanka is considered to be one of the most significant composers of wind music over the later portion of the 20th century to the present. The works to be studied were selected based on: an effort to include a representative sample of Maslanka’s complete catalogue, an effort to include representative types of his works (e.g. concerti, symphonies, etc.), an effort to include the works considered to be most significant, and the works intrinsic value.

MUS674 Topics Choral Literature
Hours 2
A thorough analysis and historical study of the repertoire for the lecture recital. May be repeated for credit.

MUS677 Topics In Organ Lit
Hours 3
In-depth study of the organ literature of a specific period, its content and performance practice related to the organs of the period, and the performance of the literature. Offered each semester. May be repeated for credit if literature varies.

MUS692 Adv Choral Conducting
Hours 3
Advanced conducting techniques, score analysis and preparation, performance practice and interpretation, rehearsal, and vocal techniques and diction.

MUS694 Adv Wind Conducting
Hours 3
Advanced baton technique, score reading, interpretation, rehearsal techniques and instrumental problems in selected scores.

MUS696 Comprehensive Examination
Hours 0
All doctor of musical arts students are required to register for this course at the beginning of the semester during which they take the comprehensive examination. A grade will be determined entirely by an assessment of the student’s performance on the comprehensive examination and will either be pass or fail. The course may be repeated once and must be passed if the student is to graduate.
Electives: 7 hours

Recital requirements
In performance, a minimum of three recitals are required. In conducting there is a requirement for a minimum of three concerts, one of which must be a lecture-recital. In composition, the requirement includes a full recital, or equivalent in length, of music written at the DMA level, exclusive of work done on the document.

Advisory Committee
A committee shall be appointed to supervise the student’s program and progress toward the degree. The constitution of the committee is described in the Graduate Handbook of the School of Music.

Written comprehensive examinations
All students must pass written comprehensive examinations in the major area. No student may attempt the written comprehensive examination sooner than the first Fall or Spring semester after successful completion of all required MUS courses. A description of the written comprehensive examinations is included in the Graduate Handbook of the School of Music.

Document
In performance, choral conducting, and wind conducting, a final project that includes a research and writing component is required. The subject, content, and length of the project must be approved by the student’s advisory committee. The School of Music offers options for the format of the final project; these are described in detail in the School of Music’s Graduate Handbook (available on the School of Music’s website) under “DMA Curriculum Outlines.” In composition, there must be a large original work in an unspecified medium, in addition to and distinct from any work done for degree credit in the DMA program. Every project is subject to approval by the student’s advisory committee. Work is supervised by the major teacher and the student’s advisory committee.

Public lecture
In performance and composition, a required 50-minute lecture demonstrating the candidate’s ability to communicate about the area of specialization.

Language requirement
There is no specific language requirement for the DMA. Depending on the student’s academic program, the advisory committee may require proficiency in a foreign language.

Residency requirement
A minimum of two consecutive, full-time academic semesters must be spent in residence at the University; one may consist of a full summer, if approved by the advisory committee. A minimum of 18 semester hours must be earned in residence. Only degree credit may be counted toward the 18 hours.

Individual area degree outlines
Complete descriptions of the program in each area of specialization for the DMA are contained in the Graduate Handbook of the School of Music; this may be secured by contacting the director of graduate studies in music or may be viewed on the School of Music Web page.

Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential...
A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division. The final oral thesis defense is the culminating experience in the master's program.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

Thesis must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.
those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Music, MM
Requirements for Admission
All courses of graduate music study must meet the general requirements of the Graduate School as given in the Admission Criteria section of this catalog.

See the Admission Criteria section of this catalog for more information. In addition, the School of Music imposes the following special requirements:

The Bachelor of Music degree in the chosen field of study from The University of Alabama or the equivalent from another accredited institution.

In special cases, a student holding the bachelor’s degree but without a formal major in the chosen field may be admitted by examination.

All students must take examinations in music history and music theory prior to initial registration. Any required courses or other work specified as a result of deficiencies revealed in these examinations must be completed by the end of the first fall semester after matriculation. A schedule of remediation will be determined by appropriate faculty and the director of graduate studies in music and may include enrollment in MUS 595 Graduate Theory Review and/or MUS 591 Readings in Music History. Students may not earn graduate credit in theory and history until all deficiencies in the respective areas have been removed.

Any deficiencies revealed by analysis of undergraduate transcripts prior to enrollment must be removed within one year of initial enrollment. Information about the entrance examinations may be obtained from the director of graduate studies in music.

Individual Area Requirements

Performance
An audition on the major instrument. A complete repertoire list must be submitted, noting those works prepared for the audition.

Voice
The demonstration of a satisfactory vocal technique in the classical style, and satisfactory singing diction and comprehension in French, German, Italian and English.

Composition
Submission of a group of original works, including at least one in large form.

Theory
Submission of examples of work that illustrate analytical and writing skills. Students must have a reading knowledge of a foreign language (usually German, French, or Italian). Those who do not have this skill at matriculation will be required to remove the deficiency, through the completion of appropriate language courses or by examination, before they are admitted to candidacy.

Musicology
Submission of work that illustrates research and writing skills. Students must have a reading knowledge of a foreign language (usually German, French, or Italian). Those who do not have this skill at matriculation will be required to remove the deficiency, through the completion of appropriate language courses or by examination, before they are admitted to candidacy.

Conducting
An audition with a University ensemble. Two major works, in contrasting styles, must be conducted. Ear training and sight-singing proficiency must be demonstrated.

Degree Requirements
These differ with the area of specialization; a complete outline of requirements in each field is contained in the Graduate Handbook of the School of Music, which may be secured from the director of graduate studies in music or may be viewed on the School of Music Web page.
Concentrations in musicology, theory, and composition follow Plan I, which requires a written thesis. A composition student is required to present a recital of original compositions in addition to the thesis. Concentrations in performance, choral conducting, wind conducting, and church music, follow Plan II, which does not require a written thesis but which does require additional course hours and a recital. Concentrations in musicology and theory require a public lecture.

All MM degrees require at least 12 hours in graduate courses in music history and music theory, with at least 6 hours in each. MUS 501 Intro Grad Stdy In Mus must be taken in the first fall semester of enrollment.

MM students under Plan I (thesis) must pass written comprehensive examinations in theory, history, and the major area. A description of the written comprehensive examinations is included in the Graduate Handbook of the School of Music. MM students under Plan II (non-thesis) are required to take an oral examination.

All students must pass an oral examination. For students under Plan I, the oral examination will be a defense of the thesis. For students under Plan II, the oral examination will be based on the student's coursework in the MM program and will determine the student's ability to articulate a broader perspective derived from that study. For students following Plan II, the oral examination is the final step in the completion of the degree and is administered only after all other requirements have been completed.

A minimum of 33 semester hours of graduate work is required to complete any MM degree.

**Master's Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate
School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

**Journal Format.**

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of
graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Department of Physics and Astronomy (PH)

- Majors
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  - Physics (PhD) (p. 222)

[object Object]
Graduate credit will not be granted to physics students for 400-level physics or astronomy courses. Graduate students enrolled in 500-level courses that are also offered at the 400 level are expected to perform extra work of an appropriate nature.

Astronomy Courses

AY521 Theoretical Astrophysics
Hours 3
This course provides a broad introduction to the theoretical foundations of astrophysical phenomena, demonstrating how fundamental phenomenology arises from physical laws. Several broad domains of astrophysics are covered, including planetary and stellar orbits, radiation, radiative transfer, ionization, star and planet formation, stellar evolution, binary stars, special and general relativity (including black holes), galactic structure and dynamics (including dark matter), active galaxies, spacetime structure, formation of large scale matter structure, and cosmology (including the accelerating expansion of the Universe, dark energy, and Grand Unification of forces in the early Universe).

AY533 Observational Techniques
Hours 3
Theoretical and practical aspects of modern astronomical observational techniques. Photometry, spectroscopy, interferometry, and optical and radio data reduction and image processing.

AY550 Stars & Stellar Evolution
Hours 3
This course is intended to facilitate a fairly complete understanding of stars, including their structure, evolution (formation, stages of burning, end states), synthesis of elements, and the physical processes involved in each of these, as well as introduce the modern computational modeling techniques used to apply stellar physics to stars. For astronomy students, this course will provide the background necessary to understand the underlying principles of stellar processes and modelling as they are used both in ongoing research into stellar physics and phenomena and in support of other areas of astronomical research where stellar populations, products and processes are important. In a broader context, relevant for any physics student, this course will discuss how understanding the physical principles in fluid dynamics, high-density materials, heat transfer, plasma physics, nuclear structure, and nuclear processes are assembled into our modern understanding of how stellar objects behave, and how the study of stars pushes the frontier of understanding in these areas of physics.

AY580 Cosmology
Hours 3
This course surveys the evolution of the universe, including discussion of general relativity, the Standard Big Bang Cosmology, cosmological inflation, the cosmic microwave background, large scale structure, baryogenesis, dark matter and dark energy.

AY582 Selected Topics in Astronomy
Hours 1-3
This course may deal with any astronomy topic not covered by existing courses. The course title is added at the time the course is taught. Repeat credit is allowed for different course titles.

AY590 Research Techniques
Hours 3
This course provides graduate students with domain-specific skills and knowledge in their research specialty. This training is expected to be undertaken in the context of active engagement by the student in an ongoing or semester-long research project. Alternatively, if formal preparation beyond the available courses is necessary for a student's success within their specialty, such formal preparation (reading, assignments, etc) will be performed under the direction and supervision of the instructor. Any combination of active research and additional specialty formal preparation may be specified by the instructor, as is necessary to advance the student's knowledge and skill toward that necessary to plan and perform successful research in their specialty.

Prerequisite(s): Permission of instructor is required. Core courses must be undertaken in the context of active engagement by the student in an ongoing or semester-long research project. Alternatively, if formal preparation beyond the available courses is necessary for a student’s success within their specialty, such formal preparation (reading, assignments, etc) will be performed under the direction and supervision of the instructor. Any combination of active research and additional specialty formal preparation may be specified by the instructor, as is necessary to advance the student’s knowledge and skill toward that necessary to plan and perform successful research in their specialty.

Prerequisite(s): Permission of instructor is required. Core courses must be completed before taking this Research Techniques course.

AY597 Astrophysics Seminar
Hours 1
Required of all full-time physics graduate students specializing in astronomy each semester in residence. Students must attend weekly seminars and make one oral presentation.
AY620 Extragalactic Astronomy
Hours 3
This course surveys the observational and physical aspects of galaxies, clusters of galaxies, active galaxies, quasars, and astrophysical cosmology. The cosmic distance scale and galaxy evolution will be addressed. On successful completion of this course, a student will be prepared to understand the relevant research literature and be ready to embark on independent research in these topics.

AY630 Stellar and Galactic Dynamics
Hours 3
The subject of this course is the dynamics of collisionless objects (stars and dark matter) within self-gravitating systems, i.e. within galaxies and star clusters. The course is primarily theoretical, but there will be considerable discussion of the connections to observations. The approach will combine rigorous mathematical analysis with computational experiments.

AY640 Radiation Processes in Astrophysics
Hours 3
This course covers radiative transfer, blackbody radiation, and non-relativistic and relativistic electromagnetic radiation processes, including bremsstrahlung, synchrotron and Compton radiation, as well as atomic and molecular transitions.

AY682 Selected Topics in Astronomy
Hours 1-3
This course may deal with any astronomy topic not covered by existing courses. The course title is added at the time the course is taught. Repeat credit is allowed for different course titles.

Physics Courses

PH501 Classical Dynamics
Hours 3
Variational principles and Lagrange’s equations; two-body central-force problems; kinematics of rigid-body motion; rigid-body equations of motion; special relativity; Hamilton’s equations of motion; and canonical transformations.

PH505 Physics For Science Teachers
Hours 3
Selected topics in contemporary physics for high school and post-secondary science teachers.

PH511 Biophysics
Hours 3
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, bionanotechnology. Emphasis on systems that are best understood in physical and molecular detail.

PH512 Physics Pedagogy
Hours 1
This is a course in teaching methodologies for introductory physics, based on recent results from physics education research.
Prerequisite(s): None
Prerequisite(s) with concurrency: None

PH513 High School Physics Labs I
Hours 1
This course is designed to provide training in Level 1 Alabama Science in Motion physics laboratory activities for pre-service high school physics teachers. In addition to hands-on training, students will observe a selected number of ASIM lab activities being performed in a local high school classroom. Whenever possible, training will occur jointly with ongoing in-service workshops provided by the ASIM physics specialist.

PH514 High School Physics Labs II
Hours 1
This course is designed to provide training in Level 2 Alabama Science in Motion physics laboratory activities for pre-service high school physics teachers. In addition to hands-on training, students will observe a selected number of ASIM lab activities being performed in a local high school classroom. Whenever possible, training will occur jointly with ongoing in-service workshops provided by the ASIM physics specialist.

PH515 High School Physics Labs III
Hours 1
This course is designed to provide classroom experience for students who have received training in Levels 1 and 2 Alabama Science in Motion physics laboratory activities for pre-service high school physics teachers. Students will assist with approximately six different ASIM lab activities being performed in a local high school classroom. They will meet with the classroom teacher before and after each class to discuss the goals and objectives and to assess the effectiveness of the activity, and they will write a report on their observations.

PH523 Relativity
Hours 3
Special relativity, equivalence principle, tensor analysis, gravitational effects, curvature, Einstein’s field equations, action principle, classic tests of Einstein’s theory.

PH531 Electromagnetic Theory
Hours 3
Electric and magnetic fields, Green’s functions, and Maxwell’s equations.

PH532 Electromagnetic Theory
Hours 3
Electromagnetic waves, relativity, and selected topics.
Prerequisite(s): PH 531

PH534 Digital Elect Comp Interfc
Hours 3
Theory and practical application of digital integrated circuits, including gates, flip flops, counters, latches, and displays. Computer data acquisition and control using LabView, A/D and D/A fundamentals. Digital communications.

PH541 Quantum Mechanics
Hours 3
Solution of the Schroedinger equation, matrix methods, angular momentum, and approximation methods.

PH542 Quantum Mechanics
Hours 3
Time-dependent perturbation theory, scattering theory, radiation, identical particles, and spin.
Prerequisite(s): PH 541
PH581 Nuclear Particle Physics
Hours 3
Structure and properties of nuclear and subnuclear matter; conservation laws; scattering and decay processes; and fundamental interactions.

PH585 Magnetism: Fundamentals and Applications
Hours 3
PH585 is the first course of series of graduate level courses on magnetism (PH585, PH586 - Advanced Magnetism: Magnetic Materials, Phenomena and Devices), magnetic phenomena, magnetic materials with examples of magnetic devices for physical science and engineering students. The course is based on a combination of physical principles (materials physics, condensed matter, physics of magnetism) and examples their applications. Lecture examples, lecture and home work problems throughout the course will be based on applications (see list of applications in the topics list) with emphasize on impact of fundamental magnetism for advances in particular technology.

PH586 Advanced Magnetism: Phenomena, Materials, Devices
Hours 3
PH586 a graduate level course in magnetism, magnetic phenomena, magnetic materials with examples of magnetic devices for physical science and engineering students. The course is based on a combination of physical principles (condensed mater and physics of magnetism) and examples their applications to magnetization process and magneto-transport phenomena. The course material will include the following topics: • Review Principles of Magnetism: Fundamental Magnetic Properties • Magnetic domains and domain walls • Thermal Effects • Micromagnetics • Magnetization Processes • Landau-Lifshitz-Gilbert Equation • Hard and Soft Magnetic Materials • Permanent magnet applications • Overview of modern magnetic recording: magnetic recording media • Ferromagnetic Resonance • Interlayer and Interfacial Exchange and Exchange Bias • Review Principles of Electronic structure and Electronic transport • Magneto-transport Phenomena • Anisotropic Magnetoresistance • Giant Magnetoresistance • Tunneling Magnetoresistance • Overview of Magnetoelectronic devices: HDD reader, MRAM • Special topics may be included, such as critical phenomena (Ising/Heisenberg model), magnetic and non-magnetic neutron scattering, or principles of VSM magnetometry, spin polarized electron characterization techniques.

PH587 Magnetic Recording
Hours 3
Principles of magnetic recording, write and read processes, particulate and thin film recording media, write and read heads, including magneto resistive (AMR and GMR) heads. Emphasis will be placed on the key technologies critical to high-density recording.

PH588 Nanoscale Science and Applications
Hours 3
Nanoscale science and technology are based on the study and manipulation of phenomena at length scales approaching one billionth of a meter. Advances in this rapidly changing field are being made across multiple disciplines including Physics, Chemistry, Biology, Materials Science, Engineering, and Medicine with emerging practical applications in areas as varied as energy conversion and storage, manufacturing, telecommunications, information processing, medical diagnostics, and drug delivery to mention just a few. The goal of this course is to provide upper level undergraduate and graduate students with a foundational perspective on some of the key scientific principles relevant to the behavior of matter at the nanoscale as well as a review of processes, materials, and systems that derive their properties from nanoscale phenomena.

PH590 Research Techniques
Hours 3
This course provides graduate students with domain-specific skills and knowledge in their research specialty. This training is expected to be undertaken in the context of active engagement by the student in an ongoing or semester-long research project. Alternatively, if formal preparation beyond the available courses is necessary for a student’s success within their specialty, such formal preparation (reading, assignments, etc) will be performed under the direction and supervision of the instructor. Any combination of active research and additional specialty formal preparation may be specified by the instructor, as is necessary to advance the student’s knowledge and skill toward that necessary to plan and perform successful research in their specialty.

Prerequisite(s): Permission of instructor is required. Core courses must be completed before taking this Research Techniques course.

PH591 Advanced Laboratory
Hours 3
Experimental work in modern physics at an advanced level.

PH595 Independent Study
Hours 3
No description available.

PH597 Physics Seminar
Hours 1
Required of all full-time physics graduate students each semester in residence. (Students specializing in astronomy must take AY 597.) Students are required to attend at least 10 department colloquia and/or specialty research seminars. Students in their second year and beyond are required to give one oral research presentation.

PH598 Non-Thesis Research
Hours 1-9
No description available.
**PH599 Thesis Research**  
Hours 1-9  
*No description available*

**PH641 Relativistic Quantum Mechanics**  
Hours 3  
The Dirac equation, Lorentz covariance, free-particle solutions of the Dirac equation, Foldy-Wouthuysen transformation, propagator theory, and applications to quantum electrodynamics.  
Prerequisite(s): PH 542

**PH642 Quantum Field Theory**  
Hours 3  
Classical field theory, quantization of free fields, interacting fields, the scattering matrix, Feynman rules and diagrams, evaluation of integrals and divergences, and electroweak and strong interactions. Offered according to demand.  
Prerequisite(s): PH 641

**PH661 High Energy Physics**  
Hours 3  
Gauge invariance, non-Abelian gauge theories, hidden symmetries, electroweak interactions of leptons and quarks, strong interactions among quarks, string theories, and phenomenology of high-energy interactions. Offered according to demand.  
Prerequisite(s): PH 642

**PH662 High Energy Physics II**  
Hours 3  
This course will review physics beyond the Standard Model, Grand Unified Theories, Supersymmetric Theories, Superstrings, and Exact Solutions in Quantum Field Theory.  
Prerequisite(s): PH 661

**PH681 Adv Solid State Physics**  
Hours 3  
Computational methods in solid-state physics are explored in more detail than in PH 581. Band structure calculations, Green's functions, density-functional methods, superconductivity, and disordered materials. Offered according to demand.  
Prerequisite(s): PH 581

**PH682 Selected Topics Physics**  
Hours 1-6  
May deal with any physics topic not covered by existing courses. The course title is added at the time each course is taught. Repeat credit is allowed for different course titles.

**PH698 Non-Dissertation Research**  
Hours 1-9  
Because this is non-dissertation research, students may repeat this course each semester for up to 18 credit hours.

**PH699 Dissertation Research**  
Hours 1-12  
*No description available*

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**Faculty**  
**Chair**  
Patrick R. LeClair  
**Graduate Director**  
Conor Henderson  
**Professors**  
Benjamin Harms  
Raymond E. White III  
William Keel  
Gary Mankey  
Tim Mewes  
Andreas Piepke  
Sanjoy Sarker  
Rainer Schad  
Ion Stancu  
Allen Stern  
**Associate professors**  
Conor Henderson  
Jimmy Irwin  
Claudia Mewes  
Nobuchika Okada  
Paolo Rumerio  
Dean Townsley  
Dawn Williams  
**Assistant professors**  
Paulo Araujo  
Jeremy Bailin  
Adam Hauser  
Matthias Kaminski  
Preethi Nair  
Igor Ovstrovskiy  
Georg Schwiete  
Wang-Kong Tse

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**Physics, MS**

**Admission Requirements**

A student who wishes to take graduate work leading to the MS or PhD degree should have the equivalent of an undergraduate major in physics, and mathematics through differential equations. Any undergraduate courses required to complete a student’s preparation should be taken as soon as possible. A comprehensive background in general physics is considered as important as mastery of a specialized field. To be considered for regular admission, the GRE general test or the GRE subject test in Physics should have a score at the 50th percentile.

General requirements are stated in the Admission Criteria section of this catalog. Specific requirements in physics follow. Note that requirements...
for students specializing in astronomy differ from those for students in other physics areas. See the Admission Criteria section of this catalog for more information.

**Requirements for the MS Degree**

**M.S. in Physics (thesis option)**

A total of 24 semester hours of coursework is required (18 of which must be in physics and astronomy), in addition to 6 semester hours of research. Physics students must take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 501</td>
<td>3</td>
</tr>
<tr>
<td>PH 531</td>
<td>3</td>
</tr>
<tr>
<td>PH 541</td>
<td>3</td>
</tr>
<tr>
<td>PH 571</td>
<td>3</td>
</tr>
<tr>
<td>PH 599</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

All full-time students must take one hour of seminar PH 597 Physics Seminar each semester. Up to three semester hours of pass/fail coursework (PH 597 Physics Seminar, PH 598 Non-Thesis Research) and up to three semester hours of PH 590 Research Techniques can count toward the 24 hour course requirement. An oral examination covering coursework and the thesis is required for completion of the degree.

**M.S. in Physics (non-thesis option)**

A total of 30 hours of coursework is required, 24 of which must be in physics and astronomy. Students must take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PH 501</td>
<td>3</td>
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<td>PH 531</td>
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<td>PH 571</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

All full-time students must take one hour of seminar PH 597 Physics Seminar each semester. Up to three semester hours of pass/fail coursework (PH 597 Physics Seminar, PH 598 Non-Thesis Research) and up to three semester hours of PH 590 Research Techniques can count toward the 30 hour course requirement. An oral examination covering coursework is required for completion of the degree.

**M.S. in Physics with Astronomy focused area of study (thesis option)**

A total of 24 semester hours of coursework is required (18 of which must be in physics and astronomy), in addition to 6 semester hours of research (PH 599 Thesis Research). Students must take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PH 501</td>
<td>3</td>
</tr>
<tr>
<td>PH 531</td>
<td>3</td>
</tr>
<tr>
<td>PH 541</td>
<td>3</td>
</tr>
<tr>
<td>PH 599</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>18-21</strong></td>
</tr>
</tbody>
</table>

All full-time students must take one hour of seminar PH 597 Physics Seminar each semester. Up to three semester hours of pass/fail coursework (AY 597, PH 598 Non-Thesis Research) and up to three semester hours of PH 590 Research Techniques can count toward the 24 hour course requirement. An oral examination covering coursework and the thesis is required for completion of the degree.

**M.S. in Physics with Astronomy focused area of study (non-thesis option)**

A total of 30 hours of coursework is required, 24 of which must be in physics and astronomy. Students must take:

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PH 501</td>
<td>3</td>
</tr>
<tr>
<td>PH 531</td>
<td>3</td>
</tr>
<tr>
<td>PH 541</td>
<td>3</td>
</tr>
<tr>
<td>PH 599</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>24-27</strong></td>
</tr>
</tbody>
</table>

All full-time students must take one hour of seminar AY 597 Astrophysics Seminar each semester. Up to three semester hours of pass/fail coursework (AY 597, PH 598 Non-Thesis Research) and up to three semester hours of PH 590 Research Techniques can count toward the 30 hour course requirement. An oral examination covering coursework is required for completion of the degree.

**Precision Timing Concentration (Available only for thesis option)**

**Electrical Engineering Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECE 593</td>
<td>3</td>
</tr>
<tr>
<td>ECE 579</td>
<td>3</td>
</tr>
<tr>
<td>ECE 693</td>
<td>3</td>
</tr>
</tbody>
</table>
| **Statistics Course**
| MATH 551     | 3     |
| **Electives - Choose two from the following:** | 6 |
| PH 590       |       |
| PH 542       |       |
| PH 532       |       |
| PH 534       |       |
| PH 681       |       |
| PH 591       |       |
| **Total Hours** | **18** |

**Master’s Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.
Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as
the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Physics, Ph.D.
Admission Requirements
A student who wishes to take graduate work leading to the MS or PhD degree should have the equivalent of an undergraduate major in physics, and mathematics through differential equations. Any undergraduate courses required to complete a student’s preparation should be taken as soon as possible. A comprehensive background in general physics is considered as important as mastery of a specialized field. To be considered for regular admission, the GRE general test or the GRE subject test in Physics should have a score at the 50th percentile.

General requirements are stated in the Admission Criteria section of this catalog. Specific requirements in physics follow. Note that requirements for students specializing in astronomy differ from those for students in other physics areas.

See the Admission Criteria section of this catalog for more information.
Requirements for the PhD Degree

The student's PhD Plan of Study must be approved by the department and the Graduate School by the time the student completes 30 graduate semester hours of UA and/or transfer course work.

Courses

A total of 48 hours of coursework is required, 36 of which must be in physics and astronomy. All students are required to take

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<th>Course</th>
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<tr>
<td>PH 501</td>
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<td>PH 531</td>
<td>3</td>
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<tr>
<td>PH 532</td>
<td>3</td>
</tr>
<tr>
<td>PH 541</td>
<td>3</td>
</tr>
<tr>
<td>PH 542</td>
<td>3</td>
</tr>
<tr>
<td>PH 571</td>
<td>3</td>
</tr>
</tbody>
</table>

relevant substitutions determined by their sub-area

Total Hours: 18

An additional 12 hours of graduate courses is required within the student’s sub-area, and a further 18 should be determined in consultation with the student’s advisor, at least 6 of which must be in physics or astronomy. All full-time students must take one hour of seminar (PH 597 Physics Seminar or AY 597 Astrophysics Seminar) appropriate to their sub-area each semester. A maximum of 9 hours of pass/fail coursework (PH 597, AY 597, PH 598 Non-Thesis Research, and PH 698 Non-Dissertation Research) can be counted toward the 48-hour coursework requirement.

Examinations

There are two separate examinations each prospective PhD candidate must pass: the qualifying exam and the preliminary exam. The qualifying exam consists of a written exam on advanced undergraduate physics. Financial support may be withdrawn if a student does not pass the exam by the end of his or her second year at the University. Passing the qualifying exam is a requirement for acceptance into the PhD program.

The preliminary exam is an oral exam on the student’s research plan and on courses in the student’s area of specialization. Passing the preliminary exam is a requirement for admission to candidacy for the PhD and allows the student to commence dissertation research. More detailed information regarding physics PhD examination policies is available in the office of the Department of Physics and Astronomy, Time Limit. All requirements must be completed in the seven years (21 fall, spring and summer semesters) following admission to the program. More detailed information is in the Degree Requirements section of this catalog.

Precision Timing Concentration

Electrical Engineering courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 593</td>
<td>3</td>
</tr>
<tr>
<td>ECE 579</td>
<td>3</td>
</tr>
<tr>
<td>ECE 693</td>
<td>3</td>
</tr>
</tbody>
</table>

Statistics courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 551</td>
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</tr>
<tr>
<td>MATH 554</td>
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</tr>
</tbody>
</table>

Choose six hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 508</td>
<td>Communications</td>
</tr>
<tr>
<td>ECE 509</td>
<td>Communications Lab</td>
</tr>
<tr>
<td>ECE 530</td>
<td>Solid State Devices</td>
</tr>
<tr>
<td>ECE 561</td>
<td>Quantum Well Elec &amp; Devices</td>
</tr>
</tbody>
</table>

Total Hours: 27

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.
Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level:

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be
applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice.
Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage.

Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the &quot;University Academic Calendar&quot;)</td>
<td>0</td>
</tr>
</tbody>
</table>
Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results
of the examination must be reported to the Office of the Graduate School
at least six weeks before the commencement at which the degree is to be
conferred.

**Application for Graduation**
Each candidate for a doctoral degree must submit an Application for
Degree via myBama not later than the last day to register or add a
course of the semester or the first term of the summer session in which
requirements for the degree are to be completed. That day is published
for each semester at the website of the University Registrar.

**Clearing the Academic Record for Commencement**
At least one week before commencement, the candidate’s record must
have been cleared for graduation.

**Attendance at Commencement**
A candidate for a doctoral degree must be present at a scheduled
commencement to receive the diploma and hood, unless excused by the
graduate dean.

**Withholding or Withdrawing an Advanced Degree**
The University of Alabama reserves the right to withhold or withdraw an
advanced degree on the recommendation of the graduate faculty.

**Department of Political Science (PSC)**

- **Majors**
  - Political Science (MA) (p. 230)
  - Political Science (PhD) (p. 232)
  - Public Administration (MPA) (p. 237)

[object Object]

Prerequisite: Graduate standing.

Note: The MA is earned en route to the Ph.D.

**PSC500 Departmental Seminar I**
Hours 0.5

Once-monthly information sessions required of new political science
graduate students.

**PSC501 Departmental Seminar II**
Hours 0.5

A continuation of PSC 500.

**PSC511 Public Opinion**
Hours 3

The formation, distribution, structure, properties, and techniques of
measuring public opinions in the United States.

**PSC521 Research Design**
Hours 3

Includes but is not limited to the role of theory, development of
hypotheses, modes of observation and analysis, and testing of
hypotheses.

**PSC522 Quant Methods PSC I**
Hours 3

Introduction to statistical techniques, including univariate and bivariate
descriptive statistics and their application within the field of political
science.

**PSC542 Internatl Conflict**
Hours 3

An examination of the various kinds of violent conflict in which nation-
states become involved.

**PSC543 Comparative Pub Pol**
Hours 3

An examination of the actors and processes involved in making public
policy, with an emphasis on the question of what kinds of governments
are responsive to popular demands.

**PSC552 American Political Thought**
Hours 3

Investigates the origin and direction of the U.S. political ideology,
including liberalism, civic republicanism, and debates condemning
American exceptionalism.

**PSC561 Administrative Regultn**
Hours 3

The impact of legal powers and procedures of administrative agencies on
public policy. Analysis of regulatory powers in American governments.

**PSC562 Public Personnel Admin**
Hours 3

A study of the American public personnel system, with an emphasis on
the political setting of government employment, equal opportunity and
affirmative action, and collective bargaining.

**PSC565 Foundations of Public Administration**
Hours 3

Introduction to the scope, theory, and substantive issues of public
administration.

**PSC595 Dir Reading & Research**
Hours 1-6

*No description available*

**PSC598 Dir Reading & Research**
Hours 1-6

*No description available*

**PSC599 Thesis Research**
Hours 1-6

*No description available*

**PSC610 Core Seminar in American Politics**
Hours 3

This is a survey of classic or foundational research in most areas of
American Politics, incorporating studies of the mass public, elites, and
national-level institutions. The objectives are to help prepare students
for their Comprehensive Exams in American Politics, and to provide
introductions to various approaches and subject areas within American
Politics that can be explored further in more advanced, focused graduate
seminars. This course is required for all students taking American Politics
as a graduate field.
PSC611 Amer Polit Behavior
Hours 3
Research and methodology in the areas of social and psychological factors related to voting, party preference, and ideology.

PSC612 Judicial Politics
Hours 3
Examines the role of the courts in political systems with primary emphasis on the United States Supreme Court.

PSC616 Topics In American Politics
Hours 3
An examination of selected problems in American politics. Content varies.

PSC621 Quant Meth In Psc II
Hours 3
Data analysis and statistical applications in political research, including data processing, inferential statistics, correlation and regression, multivariate analysis, and other multidimensional techniques.

PSC631 Sem Comparative Politic
Hours 3
A survey of the theoretical literature in the field of comparative politics.

PSC632 Spec Topics Comparative Pol
Hours 3
An examination of selected problems in comparative politics.

PSC635 Politics Of European Union
Hours 3
A survey of the literature on European integration. Theories of integration, including neofunctionalism and intergovernmentalism, will be examined. Topics will include EU institutions, political parties and the EU, democracy within the EU, and EU policies.

PSC641 Issues Internatl Rel
Hours 3
An examination of major problem areas in the international system and their effects. Content varies.

PSC642 Concept Internatl Rel
Hours 3
A survey of contemporary theoretical approaches to the study of international relations, providing an overview of traditional and behavioral orientations.

PSC651 Political Theory Sem
Hours 3
An examination of key political theorists from the 16th to the 19th centuries. Assigned works may vary but typically include those by Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx, and Nietzsche.

PSC653 Special Topics
Hours 3
An examination of selected political theorists. Content varies.

PSC662 Organization Theory
Hours 3
An analysis of the theories of organization and management that examines models, reviews current administrative philosophy, and presents contemporary trends in organization and management.

PSC663 Sel Prob Public Admin
Hours 3
May be repeated up to a maximum of 6 hours of credit. In-depth analysis of a policy issue or administrative problem. Specific topics vary.

PSC664 Public Policy Analysis
Hours 3
Focuses on the analysis of public policy through techniques based on economics, systems theory, and political reasoning. Explores the role of policy analysis in democratic society and addresses applications of public policy analysis to contemporary policy issues.

PSC665 Local Government Administration
Hours 3
This course examines major local government issues and the administrative approaches to solving these problems. The focus will be on government managers and public-sector employees in localities. Topics will include the difficulties of providing human services through street level bureaucracies, local government policymaking, and how to achieve innovation. These topics will be examined in both an historical and contemporary context, with special emphasis on the impact of the political climate on the management of local government agencies. Using a case-study approach, students will learn what public managers actually do and will evaluate the effectiveness of their leadership and management strategies.

PSC666 Polit Econ & Pub Pol
Hours 3
An examination of the political economy approach to the study of public policy.

PSC667 Public Budgeting
Hours 3
Problems of financial management in governmental units: revenue sources, budgeting, financial management, and control.

PSC668 Program Evaluation
Hours 3
In-depth analysis of a policy issue or administrative problem. Specific topics vary. May be repeated up to a maximum of 6 hours of credit.

PSC679 Internship & Research
Hours 3-6
Field work and research opportunities to be supervised by departmental faculty.

PSC699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
Smith, Joseph

Professors
Borrelli, Stephen
Cassel, Carol
DeRouen, Karl
Fording, Richard
Political Science, MA

Admission Requirements
Applicants for admission to the MA program must submit scores from the Graduate Record Examination general test. Additional information is in the Admission Criteria section of this catalog.

Degree Requirements

Plans I and II
MA students may follow either Plan I, requiring 30 semester hours of coursework, 6 hours of PSC 599 Thesis Research, a written comprehensive examination, a thesis, and an oral examination in defense of the thesis; or Plan II, requiring 36 hours of coursework and a written comprehensive examination.

Course requirements
Under either plan, students must take courses in three of five fields, including a core seminar in each. The available fields are American politics, comparative politics, international relations, public policy and administration, and political theory. Students select one major field and two minor fields. Plan I students take 9 hours in the major field and 6 in each of two minor fields; Plan II students take 12 hours in the major field and 6 in each of two minor fields. The core seminars are:

<table>
<thead>
<tr>
<th>Core Seminars</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 610 American Core</td>
<td>3</td>
</tr>
<tr>
<td>PSC 631 Sem Comparative Politic</td>
<td>3</td>
</tr>
<tr>
<td>PSC 642 Concept Internatl Rel</td>
<td>3</td>
</tr>
<tr>
<td>PSC 651 Political Theory Sem</td>
<td>3</td>
</tr>
<tr>
<td>PSC 655 Foundations of Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 521 Research Design</td>
<td>3</td>
</tr>
<tr>
<td>PSC 522 Quant Methods PSC I</td>
<td>3</td>
</tr>
</tbody>
</table>

Comprehensive examination
The written comprehensive examination will cover the student’s major field and will require integration of material across courses.

After passing the written examination, a student following Plan I should prepare a thesis prospectus, which should describe the substance and methods of the thesis research, outline the thesis itself, and provide a preliminary bibliography. Once the prospectus has been approved, the chairperson will formally appoint a committee of three faculty members to supervise the thesis. The student must take a final oral examination to defend the thesis and show competence in the field in which it lies. Except in unusual circumstances, the final oral examination must be taken during the fall or spring semester and before final course examinations begin. After the examination, the student must submit the thesis electronically in accordance with procedures laid out in this Catalog.

Detailed information on requirements is in the Degree Requirements section of this catalog.

Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for
graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” grade on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

**Journal Format.**

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.
Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School. Any examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Political Science, Ph.D.
Admission Requirements
Admission to the PhD program requires either a bachelor's or a master's degree. Applicants must submit scores from the Graduate Record Examination general test.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
Major and minor fields. PhD students must choose and develop competence in one major field, a secondary field, and a third field (see fields listed above under MA Course Requirements). In exceptional cases, a student may choose their third field outside the department, with special permission from the graduate studies committee.

The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

Course requirements
The student’s plan of study for the PhD degree must be approved by the department and the Graduate School by the time the student completes 30 graduate semester hours of UA and/or transfer course work. PhD students must complete at least 51 hours of graduate coursework. At least 18 hours must be taken within the student’s major field, at least 12 hours must be taken within the secondary field, and at least 9 hours must be taken in the third field. Up to 24 hours may be transferred from other institutions, with the permission of the graduate studies committee with special limits on the number of courses per field that can be transferred. Students must take the core seminars in their fields (see the list under “MA Course Requirements” above). In addition, all students must complete 9 hours of methods courses, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PSC 521</td>
<td>Research Design</td>
</tr>
<tr>
<td>PSC 522</td>
<td>Quant Methods PSC I</td>
</tr>
<tr>
<td>PSC 621</td>
<td>Quant Meth In PSC II</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>9</td>
</tr>
</tbody>
</table>

Students interested in pursuing a topic in greater depth than the standard course offerings allow may take up to 12 hours of PSC 595 Dir Reading &
Research and PSC 598 Dir Reading & Research, with up to 6 hours in the major field and three hours in each of the secondary and third fields.

Language requirement
A foreign language is required of PhD students if appropriate to the student’s research interests. The appropriateness of the foreign language requirement shall be determined by the relevant faculty in the student’s primary field of interest prior to the student’s completion of 18 hours in residence in the PhD program. Students may, with approval of the Graduate Studies Committee, substitute foreign language for the PSC 621 requirement.

Comprehensive examination
Before writing a dissertation, but only after completing at least two full years of graduate study and completing all course requirements, PhD students must take and pass written comprehensive examinations in their major and secondary fields. Students whose written results are weak but fall short of failing will be required to pass an oral exam. Exams will be given during fall and spring semesters only.

Candidacy
Students who have fulfilled the course requirements and passed the comprehensive examination become PhD candidates after the Graduate School approves the student’s formal application to candidacy for the doctoral degree.

Dissertation
Students must complete no less than 24 hours of dissertation credit (699). As soon as possible after satisfying the requirements for candidacy, each student should submit three copies of a dissertation prospectus to the department chairperson, who will establish a dissertation committee of five faculty members, with at least three from the Department of Political Science and at least one from another department. The prospectus should contain the same information as an MA thesis prospectus (see above).

The department chairperson will decide whether to approve the prospectus, on the recommendation of the dissertation committee. Once the prospectus has been approved, the student may begin work on the dissertation itself, under the supervision of his or her dissertation committee. When finished, the student must take a final oral examination to defend the dissertation and demonstrate competence in the field in which it lies. The examination, conducted by the dissertation committee, must ordinarily be held during the fall or spring semester. Following a successful defense, the student must submit the thesis electronically in accordance with procedures laid out in this Catalog.

Doctoral Degrees
The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380)
section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**
The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UBSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from the University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. **All doctoral programs**: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. **PhD Programs Only**: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**
All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the
doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to
make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal's format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty. The committee chair must be a full member of the Doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School's homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

<table>
<thead>
<tr>
<th>Final-Semester Dissertation (699) Minimum Registration Hours</th>
<th>When was the “completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours–Other Policies and Regulatory Bodies” on page 3 of this policy.

The University Calendar is available at the Academics tab of the website of the University Registrar.

Article-Style Dissertations
This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:
• Accountancy
• Aerospace Engineering and Mechanics
• Applied Statistics
• Biological Sciences
• Chemical Engineering
• Chemistry
• Civil Engineering
• Computer Science
• Economics
• Education (all departments)
• Electrical and Computer Engineering
• Finance
• Geological Sciences
• Health Education and Promotion
• Management
• Management Science
• Marketing
• Mechanical Engineering
• Metallurgical and Materials Engineering
• Physics
• Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student's original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

• In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
• connecting language to bridge each study to the next; and
• a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline's style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Public Administration, MPA
Admission Requirements
The MPA is a professional degree program designed primarily for those who plan a career in federal, state, or local government. Applicants for admission to the MPA program must submit scores from the Graduate Record Examination general test. Scores from the Miller Analogies Test may be submitted as supplementary information, but not as a substitute for the GRE. Additional information is in the Academic Policies (p. 10) section of this catalog.

See the Admission Criteria section of this catalog for more information.
Degree Requirements

Students are required to complete 39 semester hours of coursework. The 39 hours are subdivided as follows: 21 hours of public policy and administration core courses, 6 hours of public policy and administration electives, and 9 hours of general electives if a 3 hour internship is completed and 12 hours of general electives if an internship is not completed. An internship is required for all pre-service students. In addition to the 39 hours of coursework, students must pass a written comprehensive exam.

Course requirements

MPA students must complete at least three of the following four courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 565 Foundations of Public Administration</td>
<td>9</td>
</tr>
<tr>
<td>PSC 662 Organization Theory</td>
<td></td>
</tr>
<tr>
<td>PSC 667 Public Budgeting</td>
<td></td>
</tr>
<tr>
<td>PSC 562 Public Personnel Admin</td>
<td></td>
</tr>
</tbody>
</table>

Public Policy and Administration

Select at least 18 hours

| PSC 522 Quant Methods PSC I | 3 |
| Total Hours | 30 |

Master's Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate
School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master's degree.

**Journal Format.**

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of
graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Department of Psychology (PY)**

Areas of current faculty research interest include aging, child and adolescent behavior and peer relationships, youth violence, forensic psychology, behavioral intervention, memory, chronic pain, depression, public health psychology, cultural diversity, health disparities, sleep, neuropsychology, visual-spatial cognition, emotion, autism, persuasion, unconscious cognition, risk assessment, personality, reading processes, social cognition, health attitudes, dehumanization, perception, cognitive aging, cognitive neuroscience, intellectual abilities, media psychology, and creativity.

The department operates a fully staffed psychology clinic offering psychological assessment and intervention services to University students, children, and adults. These facilities are also used in the training of clinical graduate students as professional psychologists. Each candidate for the PhD degree in clinical psychology takes practicum courses in the psychological clinic and must also complete a one-year internship in an accredited facility. The internship is taken after completion of coursework and passing of the doctoral preliminary exam and is a degree requirement.

- Major
  - Psychology (MA) (p. 243)
  - Psychology (PhD) (p. 243)

**NOTE: The MA is earned en route to the PhD.**

General prerequisites: Graduate standing and permission of both the director of graduate studies and the instructor. Graduate students enrolled in 500-level courses that are also offered at the 400 level are expected to perform extra work of an appropriate nature.

**PY581 Readings In Py Grad**

Hours 1-3

Selected supervised readings.

**PY591 Seminar In Py Grad**

Hours 3

In-depth examination of a selected contemporary psychological area. Different sections offered each semester. Section descriptions are available at registration.

**PY598 Graduate Research**

Hours 1-3

Research conducted in apprenticeship to a graduate faculty member.

**PY599 Thesis Research**

Hours 1-12

*No description available*

**PY602 Advanced Statistics I**

Hours 3

An applied course explaining how to use categorical predictor variables to explain continuous response variables. Covers t-tests, ANOVA, and nonparametric alternatives in between-, within-, and mixed-model designs.

**PY603 Advanced Statistics II**

Hours 3

An applied course explaining how to use continuous predictor variables to explain continuous response variables. Covers correlation, regression, and general linear models including both categorical and continuous predictor variables.

**PY604 Multivariate Methods Analysis**

Hours 3

Multivariate analysis, with emphasis on MANOVA, discriminant analysis, canonical correlation, and the multivariate approach to repeated measures analyses.

**PY607 Research Methods Psych**

Hours 3

Study and analysis of psychological methodology.

**PY608 Introduction To Ethics**

Hours 3

Introduction to ethical issues as they affect the practice of psychology.

**PY609 Psycholog Assessment I**

Hours 4

Principles of psychological evaluation; introduction to the clinical use of assessment techniques, with particular emphasis on intellectual assessment.

**PY610 Psycholog Assessment II**

Hours 3

The theory and application of projective techniques and personality inventories for adults.

**PY611 Neuropsychological Assessment**

Hours 3

An introduction to the theory, content, and practice of clinical neuropsychology.
PY612 Psych Assessment III
Hours 3
Principles of psychological evaluation, with particular emphasis on the assessment of children.

PY614 Categorical Data Analysis
Hours 3
Advanced graduate statistic course meant to educate about the statistical analysis tools for analyzing binary and categorical data.
Prerequisite(s): PY 602 and PY 603 and PY 607

PY615 Structural Equation Modeling
Hours 3
This course will provide you with an introduction to the theory and application of structural equation models. Structural equation models are a class of statistical techniques that incorporate regression analysis, path analysis, confirmatory factor analysis, and full scale models incorporating both measurement and structural components. These techniques are useful for both experimental and non-experimental data; for cross-sectional datasets; for multiple-group comparisons; and for longitudinal datasets, including the modeling of growth curves.
Prerequisite(s): PY 602 and PY 603 or any equivalent course Some knowledge on ANOVA, Multiple Regression, and Multivariate Data Analysis

PY616 Multilevel Modeling
Hours 3
Given the nature of the nesting data structure in social science including psychology (e.g., patients are nested within the clinicians), it is crucial to know how to handle the data dependency when analyzing this kind of nesting structured data. This course is designed to teach students the concept of MLM and the statistical technique to analyze the data appropriately.
Prerequisite(s): Students are expected to have taken: PY602 and PY603 or any equivalent courses. Students are expected to have some knowledge in ANOVA and Multiple Regression. Students who have not taken the required courses have to meet with me before they register for this course.

PY617 Supervision, Consultation and Interprofessional Skills
Hours 3
This course is designed to expose students to the current body of research on clinical supervision and professional consultation in clinical Psychology in order to prepare them for the role of supervisor.
Prerequisite(s): 2nd year clinical psychology graduate student.

PY618 Statistical Consulting
Hours 3
Students in this course will be introduced to statistical consulting techniques useful for work with researchers and policy makers in university and/or industry. This course is especially designed to improve student’s real-world problem solving skills through experiential learning opportunities. Students are expected to have some knowledge in ANOVA, Multiple Regression, Multilevel Modeling, and Structural Equation Modeling.
Prerequisite(s): PY602 and PY603

PY619 Prin Of Psychotherapy
Hours 3
The study of psychotherapeutic processes, outcomes, and systems, with particular attention given to the operations common to all approaches.

PY621 Psychotherapy Laboratory
Hours 1
A skills-building seminar emphasizing interview and communications techniques. Introduction to practicum.

PY625 Contemp Issues Research
Hours 1
Current issues relating to research in cognitive and individual differences are presented and discussed.

PY629 Biological Bases of Behavior
Hours 3
The study of brain mechanisms of perception and thought through a variety of methodological approaches (e.g., lesions, brain imaging, and normal subject experiments).

PY630 Affective Neuropsychology
Hours 3
This course will provide an overview of the principles, theory, and applications of human affective neuropsychology. The course will provide an introduction to theory and research in major areas of affective neuroscience, including cross-level integration of anatomical, affect, and physiology data. The course will provide an introduction to laboratory techniques and methodological principles in human affective neuropsychological methods. Readings will come from the texts as well as relevant selections from the current literature. The course will involve a combination of lecture, discussion, demonstrations, and laboratory exercises.
Prerequisite(s): PY 629

PY631 Practic In Psych I
Hours 1-3
Supervised experience in psychotherapeutic procedures in an approved clinical facility; seminars and case conferences.

PY633 Pract In Psych III
Hours 3
Supervised experience in psychotherapy in groups.

PY637 Practic In Psych VII
Hours 1-3
Supervised field placement in a forensic or criminal justice setting.

PY639 Practic In Psych IX
Hours 1-3
Intensive experience with a variety of child and family disorders and therapy techniques. Exposure to interdisciplinary treatment settings and personnel.

PY641 Adv Clinical Placement
Hours 1-3
Supervised experience in an approved setting. Primary clinical supervision by faculty or licensed psychologist at a placement facility.
PY642 Practicum Psychology XI
Hours 1-3
Supervised experience in clinical geropsychology.

PY645 Advanced Assessment Practicum
Hours 3
Provide doctoral level students with increased opportunities to conduct integrated assessments. This course is designed to improve such skills as administering and scoring psychological tests, producing reports, and providing meaningful feedback to clients.

PY648 Cognitive Development
Hours 3
The goal of this course is to facilitate intelligent discussion of the most influential and current research in the field of cognitive development. Students will read peer-reviewed empirical articles, intelligently discuss the implications of the science in informing the public’s knowledge of cognitive development, and conduct their own study in one specific area of cognitive development. Students will advance their writing and critical thinking skills by writing a research proposal to further explore an area of cognitive development.

PY650 Cognition And Learning
Hours 3
Contemporary approaches to cognition and learning. A broad survey, with in-depth looks at selected topics including attention and memory.

PY652 Affect and Lifespan Development Psychology
Hours 3
This course will provide an overview of theories and empirical research on a range of different topics in life-span developmental psychology. In the first part of the course, we will discuss various theories of developmental psychology. Theories of Developmental Psychology (6th Edition) along with additional readings made available via Blackboard will be the text for this first section of the course. In the second part of the course, we will explore empirical findings related to cognitive, affective, and social bases of behavior across the lifespan.

PY654 Seminar in Developmental Psychology
Hours 3
Course will provide an overview of current theory and research on social and emotional development.
Prerequisite(s): Graduate student in Psychology doctoral program. Permission of department.

PY655 Seminar in Cognitive Psychology
Hours 3
Course provides in-depth coverage of current research in the area of cognitive Psychology.
Prerequisite(s): Graduate student in Psychology doctoral program. Permission of department.

PY656 Seminar in Social Psychology
Hours 3
Course will provide an overview of issues in the scientific study of emotions, with a focus on neuroscience, social, and cognitive approaches.
Prerequisite(s): Graduate student in Psychology doctoral program. Permission of department.

PY658 Psychopathology
Hours 3
A survey of manifestations of abnormal behavior, and the diagnosis of abnormal behavior and mental disorders.

PY664 Seminar in Psychometrics
Hours 1
Overview of Psychometric principles used to evaluate psychological test instruments.

PY666 Child Psychopathlg Treat
Hours 3
Examines diagnosis and treatment of childhood disorders from empirical, theoretical, and practical standpoints.

PY669 Sem Clinic Child Psych
Hours 1
Issues in research and practice of clinical child psychology.

PY670 Perception And Action
Hours 3
An introduction to issues and concepts in the study of perception. Fundamental theoretical and empirical controversies are analyzed.

PY671 History/Systems In Psych
Hours 3
Systematic points of view placed in historical perspective.

PY672 Adv Social Psychology
Hours 3
Major aspects of social psychology including attitude change, attribution theory, aggression, altruism, prejudice, interpersonal relations, and group dynamics.

PY676 Criminal Forensic Assessment
Hours 3
Familiarizes students with relevant issues in criminal forensic assessment and introduces them to current forensic assessment instruments.

PY678 Forensic Psychology
Hours 3
The application of clinical psychology to forensic and legal issues. Competency to stand trial, criminal responsibility, testamentary capacity, jury decision making and dynamics, jury selection, and expert witness testimony.

PY679 Sem In Psychology-Law
Hours 1
Issues in research and practice of psychology as related to the law.

PY680 Psychopharmacology
Hours 3
Physiological bases and therapeutic action of psychotropic medications.

PY687 Clinical Psychology Of Aging
Hours 3
A survey of clinical geropsychology including review of major disorders experienced by older adults, assessment issues, and treatments used in work with older adults.
PY688 Sem Adult Clinic Psych
Hours 1
Issues in research and practice related to adult clinical psychology.

PY690 Cultural Competency
Hours 3
This seminar emphasizes the role of ethnicity, class, culture, gender, sexual orientation, and disability in mental health, and the impact of these factors on assessment, diagnosis, and treatment.

PY691 Seminar Clinical Psych
Hours 1-3
Selected topics related to clinical psychology.

PY693 Seminar:Adv General Py
Hours 1-3
Seminar:Advanced General Psychology.

PY695 Teaching Of Psychology
Hours 3
Principles of teaching and supervised experience.

PY698 Graduate Research
Hours 1-6
Independent research by the advanced graduate student.

PY699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
Fran Connors

Director of Graduate Studies
Ed Merrill

Professors
Fran Connors
Ed Merrill

Psychology, MA

Admission Requirements
Students applying for graduate work in psychology must present at a minimum undergraduate courses in general psychology, statistics, and experimental psychology (or research methods). In addition, it is desirable for students to have prior coursework in a laboratory science (particularly biology), college mathematics, and in the area of their intended concentration.

Applications for admission to graduate study must be accompanied by Graduate Record Examination (GRE) general test scores (the advanced section is recommended for clinical applicants). Admission is competitive and is influenced by the overall quality of the applicant's record, including grades, GRE scores, letters of recommendation, past experience, and match between the students and faculty interests. The application deadline is December 1 for the clinical psychology program and December 15 for the experimental psychology program. Complete applications must be received by these deadlines to ensure full consideration for admission for the following term.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

Students earn the MA degree en route to the PhD (p. 243), and they are required to follow Plan I. The MA degree is awarded after 24 credit hours of coursework, six credit hours of thesis, and an approved completed thesis. The 24 hours of coursework may vary by concentration, but must include the following:

<table>
<thead>
<tr>
<th>Hours</th>
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<tr>
<td>PY 602</td>
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<td>PY 607</td>
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Psychology, Ph.D.

Admission Requirements
Students applying for graduate work in psychology must present at a minimum undergraduate courses in general psychology, statistics, and experimental psychology (or research methods). In addition, it is desirable for students to have prior coursework in a laboratory science (particularly biology), college mathematics, and in the area of their intended concentration.

Applications for admission to graduate study must be accompanied by Graduate Record Examination (GRE) general test scores (the advanced section is recommended for clinical applicants). Admission is competitive and is influenced by the overall quality of the applicant's record, including grades, GRE scores, letters of recommendation, past experience, and match between the students and faculty interests. The application deadline is December 1 for the clinical psychology program and December 15 for the experimental psychology program. Complete applications must be received by these deadlines to ensure full consideration for admission for the following term.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

Students earn the MA degree (p. 243) en route to the PhD, and they are required to follow Plan I.

The student’s PhD Plan of Study must be approved by the department and the Graduate School by the time the student completes 30 graduate semester hours of UA and/or transfer course work; otherwise, a "hold" may be placed on future registration. The minimum number of credit hours required for the PhD in psychology varies by concentration. All graduate students complete the General Psychology Core, the Research Skills Core, a master’s thesis and a doctoral dissertation. In addition, clinical students complete the Clinical Core and a year-long clinical internship. Students in each of the clinical and experimental focused areas of study also complete advanced coursework in their area of study. More detailed information is available at the Department of Psychology website.

Psychology PhD Requirements

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<tr>
<td>PY 650</td>
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<td>PY 629</td>
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</table>
Select two of the following:  

- PY 670 Perception And Action  
- PY 652 Affect & Lifespan Dev. Psych  
- PY 672 Adv Social Psychology  
- PY 671 History/Systems In Psych  

### Research Skills Core

- PY 607 Research Methods Psych  
- PY 602 Advanced Statistics I  
- PY 603 Advanced Statistics II  

Select one of the following:

- PY 604 Multivariate Methods Analysis  
- PY 659/BER 558 Psychometrics  
- BER 646 Structural Equation Modl

Approved alternative:

- PY 614 Categorical Data Analysis  
- PY 616 Multilevel Modeling  

**Clinical Core (required for clinical only)**

- PY 695 Teaching Of Psychology

**Advanced Coursework in Student’s Focused Area of Study**

**Thesis and Dissertation Hours**

- PY 599 Thesis Research  
- PY 699 Dissertation Research  

Total Hours: 60

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1. Some focused areas of study require a specific course from this set.
2. See details at the Psychology website.

## Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

### Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

### Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

### Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

### Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

### Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

### Doctor of Musical Arts Degree

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

### Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN).
The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period preceding the semester of admission to the doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.
Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.
Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1. International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours—Other Policies and Regulatory Bodies" on page 3 of this policy.

2. The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

**Final Examinations**

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

**Application for Graduation**

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

**Clearing the Academic Record for Commencement**

At least one week before commencement, the candidate's record must have been cleared for graduation.

**Attendance at Commencement**

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

**Withholding or Withdrawing an Advanced Degree**

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

**Department of Religious Studies (REL)**

- Major
  - Religion in Culture (MA) (p. 249)

**Department of Religious Studies**

The three credit hour graduate seminar introduces students to terms and ideas from social theory and their relevance to the academic study of religion. Throughout the course, students will apply theories to analyze examples relevant in Religious Studies, both ancient and modern. Each student will also select an important work in their chosen field of study in consultation with their advisor and analyze that work in depth in relation to the various issues discussed in the course.

Prerequisite(s): None, except admission to degree program
REL502 Public Humanities and Religious Studies
Hours 3
This graduate seminar introduces students to public humanities and digital humanities approaches to the study of religion. Students learn methods and tools for conducting digital research and explore ways to communicate theoretical and religious studies research to public audiences through digital media. Students are introduced to a number of digital tools for research, scholarly communication, and public engagement and will work to apply those tools to their individual research interests and goals.
Prerequisite(s): None, except admission to degree program

REL504 Special Topics in Religion in Culture
Hours 3
To illustrate the gains of applying social theory to the study of religion, this course will draw upon current examples to study in light of the skills gained in the social theory foundations course. Specific content will be determined by faculty responsible for the course each semester. This course may be repeated for a maximum of 9 hours for differing topics.
Prerequisite(s): None, except admission to degree program

REL560 Independent Study in Social Theory in Religious Studies
Hours 3
This three credit hour graduate course provides students with the opportunity to pursue a topic of their choosing in relation to social theory and its relevance to the academic study of religion. Throughout the course, students will meet with the professor to select and discuss readings and writing assignments.
Prerequisite(s): None, except admission to degree program

REL561 Independent Study in Social Theory in Religious Studies
Hours 3
This three credit hour graduate course provides students with the opportunity to pursue a topic of their choosing in relation to social theory and its relevance to the academic study of religion. Throughout the course, students will meet with the professor to select and discuss readings and writing assignments.
Prerequisite(s): None, except for admission to degree program

REL590 Capstone Seminar in Social Theory in Religious Studies
Hours 3
In this culmination class experience, normally enrolled in final Spring semester, students will present their ongoing original thesis research for the purposes of soliciting feedback from the instructor and classmates. In light of the feedback, students will respond and revise their work. Having begun the degree with two common foundations courses (one on social theory and one on public humanities digital skills), students in this course will integrate and apply the skills learned throughout the degree.
Prerequisite(s): None, except admission to degree program

REL599 Religious Studies Masters Thesis
Hours 3
This is an independent research course in which the student conducts Masters Thesis research under the guidance of a thesis advisor. Research projects will include the development of an original research question; in-depth research into relevant secondary and primary sources; the production of an article length essay or equivalent digital project (as approved by the thesis advisor); and an oral presentation of the research. Students will meet regularly with the thesis advisor throughout the semester during which the course is undertaken.
Prerequisite(s): None, except admission to degree program

Faculty
Chair
Russell T. McCutcheon
Administrative Secretary
Betty Dickey
Professors
Russell T. McCutcheon
Steven Ramey
Theodore L. Trost
Associate Professors
Steven L. Jacobs
K. Merinda Simmons
Assistant Professors
Michael Altman
Eleanor Finnegan
Suma Ikeuchi
Nathan Loewen
Vaia Touna

Religion in Culture, M.A.

Description
Taking the department's motto seriously -- studying religion in culture -- this MA degree explores cross-disciplinary theories on social formation and applies them to the study of religion, seeing each site studied as a test case in identity formation. Unlike other graduate programs in the study of religion, the MA in Religion in Culture at The University of Alabama therefore presses beyond mere description and cross-cultural comparison to use social theory to understand the effects that narratives, practices, classification systems, and institutional structures have on social groups and their members -- always doing so with an eye toward training students to use innovative technologies to effectively communicate their findings to wide audiences.

Two Key Foundations
The premise of the degree is that the work taking place in our field has wide relevance. Promoting both critical analysis and innovative communication skills are therefore the cornerstones of this MA. While all students will carry out their own independent research and gain co-writing experience with their supervisor, courses will require them to produce both original article-length research papers as well as create innovative digital presentations. In consultation with their supervisor, their culminating thesis project will emphasize one or the other of these
two modes of scholarly communication – allowing students to tailor the thesis to suit their own interests and career plans.

**Supervision**

Supervisors are assigned by the graduate committee when a student is accepted into the program, making the statement of purpose a crucial element of the application process, inasmuch as it is the primary means by which the graduate committee determines whether there is sufficient overlap of its expertise with incoming students’ interests and needs. (This assignment is open to revision, at the discretion of the graduate director, should student interests change.)

**Degree Structure**

The 36 credit hour graduate degree (2 years of course work, including the final thesis) focuses on providing students with two critical foundations: (i) becoming conversant in contemporary social theory and applying it to their area of interest in the study of religion and (ii) developing competencies in the tools of the public, digital humanities. In their first semester students will not only be reading widely in social theory (and applying it to an historical, regional, or ethnographic example of their choice) but will also be gaining familiarity with a wide variety of digital tools – from video and audio recording and editing, to making web pages and working with “big data” – that will assist them to share those findings.

**Relevance of the Degree**

Designed for students hoping to pursue doctoral work, the degree is also explicitly intended for those aiming to use these skills in any number of other professions – places where the analytic skills gained from working in social theory are enhanced by their communication skills and digital expertise.

**Funding**

There are a limited number of graduate teaching assistantships (GTA) – full or partial – that are awarded annually on a competitive basis. Full GTA positions (i.e., 0.5 FTE) come with a full stipend and full tuition waiver (whether in- or out-of-state); partial GTA positions (e.g., 0.25 FTE) come with a half stipend and half tuition waiver.

**Non-credit Colloquium**

A required, non-credit Graduate Colloquium meets monthly and exposes students to a range of professional issues relevant to higher education today.

**Applying**

More information on the requirements/elements of an application can be found here. Note: students who have graduated from UA’s REL program, while overlapping with current faculty, do not need to submit three letters of reference.

**Contact**

For more information, contact Prof. Merinda Simmons (merinda.simmons@ua.edu), REL’s graduate director.

**Structure of the Degree**

It is expected that, in their first Fall semester, all graduate students will enroll in both REL 501 and REL 502 while also doing an independent study course with their supervisor – which could also take the form of attending a 400-level seminar related to their interests (but completing additional requirements for graduate independent study credit). The aim of this first semester is to acquire skills (social theory + public humanities skills) while also beginning to explore the specific historical, regional, or ethnographic e.g. on which each student will focus during their eventual Thesis work.

In all subsequent semesters (i.e., Fall and Spring), students will normally enroll in three courses (for 9 credit hours), so as to complete the degree in 2 academic years.

With permission of their supervisor and in consultation with the Graduate Director, some of these hours may be taken outside the Department, so that students can benefit from campus-wide resources (e.g., language training necessary for carrying out their research).

In their final Spring semester students will usually enroll in 6 hours of Thesis and 3 hours of the Capstone Seminar (a collaborative course dedicated to supporting their Thesis work by inviting feedback from a faculty member other than their supervisor as well as from all other students in their cohort).
experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the
Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meritng approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Department of Theatre and Dance (TH)

- Major
  - Theatre (MFA) (p. 257)

[object Object]
Prerequisites for 500- and 600-level courses: Graduate standing and permission of the instructor

TH515 Properties Construction
Hours 3

A studio course which allows exploration into woodworking, metal working/welding, foam sculpting, casting, upholstery, Photoshop and any other process required to create stage props. Lab fee, $25.00.

TH516 Rigging Fundamentals for Theatre
Hours 3

This course covers the theories and analysis of rigging systems, their design and engineering as well as practical implementation and operation. This course is intended for the student that already has been exposed to standard theatrical production concepts and methodologies. Furthermore, a large portion of the subject matter of the class deals in scientific theory and computations so competency in basic mathematics, algebra, and basic physics are essential.
TH519 Electricity and Electronics for the Stage  
Hours 3  
This course provides study and studio work in aspects of electricity and electronics with reference to understanding, usage, and design of systems for theatrical production. This course will cover the essential concepts of electrical theory for both AC and DC systems. The student will not only be exposed to theory, but will also have hands-on experience. As a large portion of the subject matter of the class deals in scientific theory and computations, competency in basic mathematics and algebra is essential.

TH520 Technical Direction  
Hours 3  
This course will provide students with an overview of the technical design, construction techniques, and the administrative and management functions that are a part of the field of technical direction.

TH521 Period Decor  
Hours 3  
A survey of period architecture, ornament, and furniture as applied in the stage designer's research.

TH523 Drafting For Theatre  
Hours 3  
A studio course concentrating on traditional technical drafting techniques as applied to the theatre. Skills learned will include orthographic and isometric projections, ground plans, sections, perspective drawing, and layout.

TH525 Scene Painting  
Hours 3  
A studio art course in the materials and techniques of painting and carving surfaces for stage scenery. Lab fee: $25.

TH526 Sound Prod Tech Th Dn  
Hours 3  
A course providing a working knowledge of sound production, with an emphasis on the creation of sound files for theatre and dance and the setup and maintenance of sound reproduction and modification equipment. Lab fee, $25.00.

TH527 Computer Drafting For Theatre  
Hours 3  
A studio course exploring the creation of technical drawings through Computer Aided Drafting. Skills learned will include commands for drawing, layout of information, and other CAD techniques.

TH528 Drawing and Rendering for Stage design  
Hours 3  
A studio course in drawing and painting architectural and natural environments appropriate for a variety of stage settings. Exploration of media to render light, color, and texture.

TH530 Hy Costume For Stage  
Hours 3  
A historical study of civil costume in relation to costuming for the stage.

TH531 Costume Construction I  
Hours 3  
A studio course in patterning, cutting, and constructing costumes for the stage. Additional hours in related theatre activities are required. This course has a $20 lab fee to cover materials ordered by the professor for use in the classroom as well as to help cover maintenance fees for equipment used.

TH533 Basic Problems in Costume Design  
Hours 3  
A studio course in costume design principles and presentation for stage costumes.

TH535 Presentation for Designers  
Hours 3  
The study and development of professional presentations for theatre artists. This includes, but is not limited to, "hard" portfolios, digital portfolios, exhibits and personal presentations.

TH536 Fabric Modification  
Hours 3  
This course explores and introduces a variety of techniques in which to modify the original appearance and/or intent of fibres and fabrics. This is done through the use of various dyes/techniques, surface treatment, use of non-traditional materials and restructuring of fabrics.

TH537 Drawing for Stage Designs  
Hours 3  
A studio course for drawing the human figure in a variety of stage settings and period garments. Exploration of a variety of media to render light, shadow, and textures for all types of fabrics and hard surfaces.

TH539 Advanced Stage Makeup  
Hours 3  
A studio course using a variety of materials in the craft of mask making, hair ventilating, and prosthetics. Lab fee, $25.00.

TH540 Stage Movemnt Phys Actng  
Hours 3  
An advanced course in body awareness, alignment, breathing techniques, physicalization, and physical characterization.

TH541 Advanced Scene Study  
Hours 3  
Advanced course in specific methodologies for character conception and projection.

TH542 Careers In Prof Theatre  
Hours 3  
A course focusing on audition and interview techniques, unions, résumé writing, and other skills required to apply for positions in the academic and professional theatre.

TH543 Script Analysis Interptn  
Hours 3  
Theory and methodology of the textual analysis of playscripts for production. Offered every three years.

TH544 Period Acting Styles I  
Hours 3  
Study and practice of period acting styles.
TH545 Period Acting Styles II  
Hours 3  
A continuation of TH 544, usually focusing on verse drama, especially Shakespeare.

TH546 Adv Voice Speech Perform  
Hours 3  
This course will examine vocal anatomy and physiology, and vocal health and care for the performer's voice. Various methods and approaches to voice work using breath, text, speech work and study of the International Phonetic Alphabet. Students will explore their vocal development through exercises, drills, performance and use of heighten text language.

TH547 Stage Dialects  
Hours 3  
An advanced voice and speech course studying the phonetics of various dialects and accents used by actors needed to create certain roles. Students will apply the dialect/accent work to exercises, drills, and acting/performance projects.

TH548 Rehearsal Process  
Hours 3  
Acting course in which students analyze and participate in the rehearsal process with both unpublished and published scripts.

TH551 Hist Of The Theatre I  
Hours 3  
Beginnings to the Restoration. Offered every fall semester.

TH552 Hist Of The Theatre II  
Hours 3  
Restoration to the present. Offered every spring semester.

TH554 Seminar Contemp Theatr  
Hours 3  
An examination of trends and developments in the theatre and drama since the Vietnam Era. Offered every three years.

TH555 Seminar Th Hy: Classic  
Hours 3  
The theatre and drama of ancient Greece and Rome.

TH557 Sem Th Hy: American  
Hours 3  
Theatre and drama in the United States from its beginnings. Special focus on 19th-century developments and current post-modern adaptations of earlier plays and forms. Offered every three years.

TH558 American Feminist Theatre  
Hours 3  
A seminar/survey of 20th century american feminist texts, critical essays and videos tracking the shifting focus of feminists theory, concerns and performance.  
Prerequisite(s): TH 120

TH559 Dance/Movement for the Actor and Director  
Hours 3  
An exploration of the fundamentals of dance language/technique as well as the use of Laban Movement Analysis (LMA) as a theoretical framework for analyzing movement. In order to be fully prepared for the professional world of theatre, graduate students specializing in acting or directing should possess practical knowledge of various aspects of theatre including musical theatre and dance. In addition, as potential teachers and directors, students will be better able to communicate with performers after studying dance and movement technique such as LMA.  
Prerequisite(s): Entrance into the Graduate Acting or Directing Program

TH561 Advanced Directing  
Hours 3  
Through research, class discussions and presentations of various styles, theories and approaches to the craft and art of directing, students will apply new ideas and concepts in a practical, hands-on studio setting. This studio work will be augmented with the direction (selecting, proposing, casting and rehearsing) of a 10-minute play with minimal, "bare-bones" production value at the end of the semester.  
Prerequisite(s): Graduate students must be in good standing and seek out the permission of both their individual program's director and the course's professor.

TH565 Musical Theatre Performance I  
Hours 3  
Musical theatre scene study for the actor and director; the blending of acting, singing, and movement skills in the performance of songs and scenes.

TH566 Musical Theatre Performance II  
Hours 3  
A special topics course for the actor and director, exploring such areas as musical theatre history, cabaret performance, the in-depth study of a single work, etc.

TH567 Musicl Theatre Repertoire Coac  
Hours 1-2  
Individual coaching in musical theatre repertoire and the preparation of material for auditions, principal roles, cabaret performances, and recordings.

TH570 Theatre Management  
Hours 3  
Principles of management applied to the fields of theatre operation and production, with emphasis on marketing, development, budgeting, and organizational structure.

TH575 The Singing Voice  
Hours 2  
This class is designed to introduce students to basic concepts of vocal technique and musicianship through practical application.
TH576 The Singing Voice - Intermediate  
Hours 2

This class is designed to further students’ understanding of basic concepts of vocal technique and musicianship through practical application. Students will discuss various topics related to singing and will further explore those topics through performance. Students will give four solo performances over the course of the semester.

Prerequisite(s): TH 575

TH582 Playwriting I  
Hours 3

An introduction to writing for the stage, from dramatic conception to finished script. Offered alternating years with TH 583.

TH583 Playwriting II  
Hours 3

Advanced course in playwriting; concentration on various play forms, draft revision, and the script development process. Offered alternating years with TH 582.

Prerequisite(s): TH 582

TH586 Dramatic Theory & Critsm  
Hours 3

A survey of the major critical and performance theories, with special emphasis on Aristotelian and 20th-century approaches. Includes study and practice of reviewing dramatic productions. Offered every three years.

TH600 Advanced Practicum I  
Hours 1-3

This course provides for participation in productions by graduate level students within Acting, Arts Management, Costume Design and Production, Design and Technical Production, Directing, Stage Management, or other areas.

TH601 Advanced Practicum II  
Hours 1-3

This course provides for participation in productions by graduate level students within Acting, Arts Management, Costume Design and Production, Design and Technical Production, Directing, Stage Management, or other areas.

TH602 Internship  
Hours 10

Professional, practical application of various theatre specialities in conjunction with professional/commercial theatre companies.

TH603 Advanced Practicum III  
Hours 1-3

This course provides for participation in productions by graduate level students within Acting, Arts Management, Costume Design and Production, Design and Technical Production, Directing, Stage Management, or other areas.

TH606 Stage Management I  
Hours 3

Advanced theory and practical application of stage management techniques and responsibilities.

Prerequisite(s): Permission of Instructor.

TH615 Lighting Design I  
Hours 3

A thorough study of the technical aspects of stage lighting, including electricity, optics, color, control theory, and light-plotting techniques.

TH616 Lighting Design II  
Hours 3

An advanced course covering the theory and practice of lighting design for the theatre, with an emphasis on script analysis and execution.

TH618 Lighting Design III  
Hours 1-3

A seminar involving the presentation of designs for various productions and preparation of problem-related demonstrations. May be repeated.

TH620 Structural Design for Theatre  
Hours 3

This course will concentrate on mathematical problem solving, the study of structural design and its application to theatrical structures and an investigation of why we build scenery the way we do.

TH621 History of Stage Design  
Hours 3

A survey of the history of stage design and the development of stage technology, suitable for all MFA design and technical students. Includes several historically related design and research projects.

TH622 Scene Design I  
Hours 3

A studio course in scenic design for theatre. Students will design three or more plays learning analysis, drafting, drawing, painting, and building models.

TH623 Scene Design II  
Hours 3

A studio course in scenic design building on the techniques learned in TH622. Emphasis on complete design drafting and the building of models.

TH628 Prob Th Arts: Design  
Hours 1-3

An intensive study of the designer’s responsibility involving design for varied forms of staging and design drafting.

TH632 Costume Construction II  
Hours 3

A studio course in advanced costume construction and costume crafts. Included topics are tailoring, corsetry, millinery, armor, wigs, masks, and jewelry, both period and modern. May be repeated. Lab fee, $25.00.

TH633 Costume Draping Techniques  
Hours 3

Male and Female torso body blocks will be created and manipulated through draping techniques. Skirts will be draped. Patterns will be created from muslin drapes. Exchange between students of personal costume sketches will be discussed to develop language and communication skills. Examination of professional designer sketches, Movie/theatre costume photos, period research, commercial patterns will be examined and evaluated to learn how to assess and interpret costumes.

Prerequisite(s): TH 531 or consent of instructor
TH634 Costume Design for Music  
Hours 3  
Course projects include costume designs for theatrical musicals, opera and dance. May be repeated.  
Prerequisite(s): Instructor approval.

TH635 Projects in Costume Design  
Hours 3  
Projects focus on analysis, research and designs for personality and characters.  
Prerequisite(s): none

TH636 Costume Design through the Ages  
Hours 3  
The student will be able to analyze a script and apply the principles of design to character appropriate costumes. Projects will include scripts representing time periods prior to 1900. May be repeated for credit.  
Prerequisite(s): TH 635

TH637 Period Costume Construction  
Hours 3  
A studio course in the patterning, fit, and construction of garments popular prior to the 20th century.  
Prerequisite(s): TH 431 or TH 531 or TH 432 or TH 632

TH638 Advanced Tailoring Techniques  
Hours 3  
A studio course in both hand and machine tailoring techniques needed to produce high quality custom tailored garments for the stage. This includes, but is not limited to hand padding, machine padding, decorative and couture techniques.

TH639 Prob Th Art: Costuming  
Hours 1-3  
Study and studio work in a specialized area of costume design or technology.

TH640 Prob Stage Move Phys Act  
Hours 3  
Advanced theory and practice in stage movement topics such as anatomy, clowning, mask, stage combat, mime, etc. May be repeated for credit when the topic differs.

TH641 Alexander Technique Directed Study  
Hours 3  
Private instruction in graduate level Alexander Technique. This course is designed to provide advanced, specialized work on movement re-education for the performer. Topics include, but are not limited to, alignment, balance, psychophysical coordination, and applied work.  
Prerequisite(s): TH 540, or permission of the Instructor.

TH642 Teaching Acting  
Hours 3  
A course to provide practical experience in teaching and coaching actors, and developing methods and various approaches in teaching acting.

TH643 Teaching Practicum  
Hours 1-3  
A course covering the practical aspects of teaching, including syllabi preparation, course planning, and classroom experience.  
Prerequisite(s): Permission of the Instructor.

TH644 Probs Th Arts: Perform  
Hours 3  
Advanced theory and practical application of performance techniques.

TH658 Problems in Theatre Arts: Technology  
Hours 3  
This course provides study and studio work in aspects of theatre technology. The subject matter will include a variety of aspects of theatre technology including electronics and electricity, physics and motion, automation and programming, or other state-of-the-art techniques.

TH662 History of Directing  
Hours 3  
Historical development of directing theory and methodology since Saxe-Meiningen.

TH663 Graduate Directing Studio I  
Hours 3  
Advanced theory and practical application of directing techniques.  
Prerequisite(s): Permission of Instructor

TH664 Graduate Directing Studio II  
Hours 3  
Advanced theory and practical application of directing techniques.  
Prerequisite(s): Permission of Instructor

TH665 Graduate Directing Studio III  
Hours 3  
Advanced theory and practical application of directing techniques.  
Prerequisite(s): Permission of Instructor

TH669 Probs Th Arts: Directg  
Hours 1-3  
Advanced theory and practical application of directing techniques.

TH670 Fundraising and Development for Arts Managers  
Hours 3  
Students will learn and subsequently apply the theories and practices to successfully acquire unearned revenue through annual and major gifts, corporate and foundation support, planned giving, capital campaigns and grant writing.

TH671 Leadership in the Arts  
Hours 3  
Students will develop and understanding of leadership theory and effective management practices and the ability to model and adapt their leadership, management styles and behaviors as situations change in arts organizations. Students will also develop perspective and coaching on how to apply the course materials to their current work situation and future work environment scenarios.
TH672 Venue and Event Management  
Hours 3  
Public assembly venue management represents one of the fastest growth areas in the sports, entertainment, meeting, and convention industries. With the construction of new arenas, stadiums, theaters, convention centers, and other venues, there are numerous job opportunities for properly trained individuals. This course will review and examine the principles and practices associated with managing a public assembly venue and the nature of the venue business. This is a comprehensive course designed to cover applied versus theoretical knowledge with an emphasis on assisting the student in understanding the concepts related to this professional field. In addition, this course will cover the process undertaken by event managers to plan all types of events from fundraising galas to conventions.

TH673 Financial Management in the Arts  
Hours 3  
There are two parts to this class. First, a study of the application and principles of microeconomics to the arts. The topics include supply, demand, cost, pricing, margin and the arts organization as a business entity. Second, the class will deal with the principles and practices of financial management applied to the arts enterprise. Analysis of financial statements and financial management function as it is applied to the arts will be examined.

TH674 Public Policy In Arts  
Hours 3  
A study of the history and manifestation of public arts policy in the United States, with emphasis placed on arts advocacy and public relations tactics and campaigns.

TH675 Business Legal Issues In Arts  
Hours 3  
An examination of legal requirements of nonprofit arts organizations, specifically addressing tax exemption, reporting of contributions, development considerations, and contemporary legal issues affecting artists.

TH676 Marketing The Arts  
Hours 3  
A study of contemporary marketing practices and how they are applied to the nonprofit arts organization. Special emphasis on marketing audits, forecasting, analysis, and campaigns.

TH678 Board Relations and Planning in the Arts  
Hours 3  
This course is an in depth study of the role and impact of a board of directors and the planning process in the operation of an arts organization. Specific topics covered will include board and staff interaction, board duties and responsibilities, fundraising, governance models, the strategic planning process, parliamentary procedures, board committee structures and developing bylaws and articles of incorporation.

Prerequisite(s): TH 570  

TH679 Probs Th Arts: Managmt  
Hours 1-3  
Directed studies in specific arts management techniques and theoretical development of theatre projects. May be repeated for credit when the topic differs.

TH690 Independent Study  
Hours 1-6  
Independent Study of topic found within theatre.

TH695 Capstone Experience in Theatre  
Hours 3-6  
This course is designed for an MFA student in Theatre to demonstrate their accumulated training and experience within their particular area of concentration. Areas of concentration are Acting, Arts Management, Costume Design and Production, Design and Technical Production, Directing, and Stage Management.

TH698 Research Not Related to Thesis  
Hours 3  
Research Not Related to Thesis.

Faculty  
Chair  
William Teague  
Professor  
William Teague

Theatre, MFA  
Admission Requirements

While the MFA degree has several areas of specialization, admission is granted in only one area. Admission to the MFA degree program in theatre requires satisfaction of all admission requirements as described in the Admission Criteria section of this catalog. (Note that no test scores are required). Also required is an interview, including audition and/or portfolio review. Certain areas have specific admission requirements as noted below.

The MFA degree program requires specialization in one area of production. Students in the program must be admitted to one of the following areas of study: acting pedagogy, directing, costume design/production, scene design, theatre management, lighting design, and technical production.

Subject to approval by the department chairperson and the dean of the Graduate School, in specified programs, a maximum of 20 semester hours of graduate work may be transferred from another institution. These hours must be in theatre or in a closely allied subject, and they must contribute to the student's educational objective. Should deficiencies in the student's undergraduate program be perceived, appropriate undergraduate courses will be required. While these undergraduate courses may not be counted toward the graduate degree, they may be taken in addition to the maximum allowable number of graduate hours.

The MFA program is normally a three-year program. Students who hold the MA degree in theatre upon admission to the program may expect a shortened course of study, dependent upon faculty evaluation of the previous work. Students seeking such a shortened program must apply to have previous work evaluated. Normally, a two-year minimum residency is required for students with shortened programs.

See the Admission Criteria section of this catalog for more information.
Degree Requirements
All students must follow Plan I (non-thesis) and complete 60 semester hours of graduate coursework for the degree. Continuation in the MFA degree program is contingent upon recommendation by the theatre faculty, following an annual review of the student's academic and production work. Students may be placed on probation following the review; students placed on probation have one semester in which to reestablish good academic standing. Under no circumstances will a student be permitted to continue in the program on probation for more than one semester.

The Department of Theatre and Dance uses "contract advising, that requires each student in the department to develop a plan of study within six weeks of beginning the program, in conjunction with an assigned advisor from the student's area of specialization. The plan of study must meet the minimum requirements of the Graduate School and the Department of Theatre and Dance, and have the approval of the assigned advisor. While each plan is developed individually, examples of typical curricula are available on request from the department. A student with a 5 FTE departmental assistantship cannot take more than 12 hours and no less than 6 hours of graduate work during a semester or more than 6 hours in each term of the summer session.

Master's Degrees
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding
the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing
the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Manderson Graduate School of Business

The Manderson Graduate School of Business is the graduate division of the Culverhouse College of Business. The mission of the College is to excel in the creation, dissemination, and application of business knowledge. The faculty of the Manderson Graduate School of Business offer six graduate degrees: the Master of Business Administration (MBA), Master of Accountancy (MMA), Master of Tax Accounting (MTA), Master of Arts (MA), Master of Science (MS), and Doctor of Philosophy (PhD). There are eight specialized master’s from which to choose.

The masters’ degrees may serve as terminal professional degrees; that is, they are designed primarily for people who plan professional careers in business, government, or nonprofit organizations. They may also function as preparatory programs for doctoral-level work. The doctor of philosophy program prepares graduates for careers as college or university professors or as professional researchers. The PhD requires an extensive, in-depth knowledge of the major field of study, a supporting minor field of study, and a specialized knowledge of statistical and quantitative techniques necessary for the advancement of knowledge in business and economics. A doctoral dissertation is required.

Graduate students in business are expected to exhibit a high level of integrity and professionalism in all aspects of their programs, including relationships with other students and faculty. Students who are deemed by their program director or faculty not to exhibit these characteristics or who are deemed not to be making satisfactory progress toward completion of degree requirements may be terminated from their degree programs.

Programs offered through the Manderson Graduate School of Business are accredited by the AACSB International—The Association to Advance Collegiate Schools of Business.

Business Administration, MBA (p. 267)
Culverhouse School of Accountancy (p. 268)
Department of Economics, Finance, and Legal Studies (p. 280)
Department of Information Systems, Statistics and Management Science (p. 298)
Program Requirements

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis...
to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Doctoral Programs in Business**

The doctor of philosophy degree is awarded for scholarly attainment and represents the highest degree in business administration that the University may bestow upon a student. Doctoral programs in business are designed principally for those who wish to prepare for careers in university teaching or for research positions in business and government.

The faculty of the Manderson Graduate School of Business offer the PhD degree in seven business fields: accounting, applied statistics, economics, finance, management, operations management, and marketing. The doctoral program in operations management offers an interdisciplinary concentration in management information systems.
Dual degree programs in Law and Economics

The University of Alabama School of Law and the Department of Economics, Finance, and Legal Studies offer the opportunity to obtain the dual juris doctor (JD)/doctor in philosophy (PhD) degree in the field of economics. In order to be accepted in the JD/PhD program, a student must apply for admission to, and be accepted into, the PhD program in economics and the JD. For additional information about these doctoral programs and access to specific program policies and guidelines visit Culverhouse College of Business web site.

Doctoral programs in business are built upon the premise that a student should possess an extensive, in-depth knowledge of one major field of study and one supporting or minor field of study, as well as knowledge of statistical and quantitative methods of analysis necessary to conduct research and contribute to the advancement of knowledge in business. Special emphasis is placed on the fact that the degree is not granted as a result of the student’s having taken a given number of courses or having earned a given number of credit hours.

These factors, while obviously important, will vary for different students; consequently, there is no total number of courses or hours that satisfies degree requirements uniformly for all students. Instead, the requirements should be thought of primarily from the standpoint of the student’s ability to satisfy the graduate faculty that he or she has a thorough grasp of the fields selected. In all cases, however, students must meet the minimum requirements stipulated by the Graduate School and by the Manderson Graduate School of Business.

In addition to the course requirements, each student must show evidence of research competence by writing a dissertation and must satisfy the language/research tool requirement of his or her major field. The dissertation, as the culmination of each student’s scholarly efforts, should be a significant contribution to the field of knowledge in business.

Admission to PhD Degree Programs

Admission to doctoral programs in business is open to qualified individuals who hold undergraduate and/or graduate degrees from accredited colleges and universities. Individuals seeking admission to a doctoral program should follow the application procedure established by the Graduate School of The University of Alabama. Applications for admission are carefully evaluated by selected members of the graduate faculty of the specific field to which the student is applying.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

Student program committee

For registration for the first semester or summer session in residence, each student will be advised by the graduate coordinator or department head of the major field. The graduate coordinator guides the student in course selection and counsels the student regarding other aspects of the program.

Plan of Study

The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations. An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Scholastic requirements

If a student’s cumulative grade average falls below "B," or if the student earns a "D" or "F" in a graduate course, the student may be dismissed from the program.

Residency requirements

The minimum period (following the bachelor’s degree) for earning the PhD will vary dependent on the discipline. The program is full-time and a student is expected to maintain continuous residence at The University of Alabama. Additional information on doctoral residency is in the Doctoral Degrees (p. 23) section of this catalog.

Major field requirements

The student must choose a major field from one of the following programs: accountancy, applied statistics, economics, finance, management, marketing, or operations management. The major field may include cognate courses offered by divisions of the University outside or within the Manderson Graduate School of Business. The student must take at least seven graduate-level courses in the major field to prepare for the comprehensive examination.

Minor field requirements

One minor field of study must be selected from within the Manderson Graduate School of Business or in a discipline outside the School that is closely related to the student’s major field of study. To satisfy the minor-field requirement, the student must meet the standards set by the program area granting the minor. In general, this means that the student must demonstrate a thorough grasp of the philosophy, methodology, and literature dealing with the minor field. The student must take a minimum of four graduate courses to satisfy the minor-field requirement. Some minor fields require a written comprehensive examination. For applied statistics, the minor-field requirement is replaced by the interdisciplinary field courses.

Quantitative methods requirements

Each student is required to complete two courses in statistical methods equivalent to the content of ST 550 Stat Methods In Res I and ST 551 Stat Methods In Res II, and two additional courses involving more advanced quantitative and/or statistical methods. These two elective courses are in addition to courses selected to satisfy the major or minor field requirements. A student who selects statistics as the major or minor field may satisfy the quantitative-methods requirement by completing at least four courses involving quantitative methods in addition to those selected to satisfy the minor field requirements in statistics.

Language/research tool requirements

There is no University-wide or College-wide language/research tool requirement for the PhD degree. Each program offering the degree may set its own requirements. In cases where the program has established a language/research tool requirement, candidates must complete the language/research tool requirement before taking the preliminary examination. Each student should contact the doctoral program coordinator in his or her major field for more information concerning language/research tool requirements.

Comprehensive and preliminary examinations

Each student is required to pass a comprehensive examination in the major field, and, if required, a comprehensive examination in the minor field(s). The examinations primarily aim to determine the student’s ability to show relationships among the various segments of knowledge within the major and minor fields of study. The written examination in the major field is scheduled for each student by the department head or program...
Dissertation committee

The dissertation committee is appointed by the department head or the graduate coordinator in the student's major field, in consultation with the faculty and the student. The dean of the Graduate School must approve the committee upon submission of the form for Appointment/Change of Doctoral Dissertation Committee. The committee consists of a minimum of five members of the graduate faculty; no fewer than two members must be from outside the student's major field and at least one member must be from outside the student's academic department. Each member of the committee must possess a terminal degree. Exceptions must be approved by the dean of the Culverhouse College of Business and by the dean of the Graduate School. The director of the dissertation is the chairperson of the committee.

Program areas may impose additional procedures for approval of dissertation proposals. The dissertation committee is responsible for admission of the student to candidacy, supervision of the dissertation, and administration of the final oral examination.

Admission to candidacy

Students are certified by the dean of the Graduate School for Admission to Candidacy for the PhD degree after they have met the following requirements:

1. Completed the program of approved coursework
2. Demonstrated in comprehensive examinations their competence in
   a. the major field and
   b. each minor field requiring an examination
3. Satisfactorily fulfilled the language/research tool requirement, if any
4. Passed the preliminary examination, if required
5. Established an approved dissertation committee
6. Received approval of the dissertation proposal from the dissertation committee

Dissertation requirements

A dissertation showing power of independent research and literary skill must be prepared on a topic in the major field. The subject of the dissertation must be approved by the student's dissertation committee. A student who completes the coursework but fails to complete the dissertation within five years after being admitted to candidacy will be required to retake the written examinations and the preliminary oral examination. All candidates are expected to register for dissertation supervision each semester and summer session until the dissertation is completed.

Final oral examination

When the dissertation has been completed the candidate will be given a final oral examination by the committee. This examination is primarily concerned with the research work of the candidate as embodied in the dissertation and the field in which the dissertation lies, but it may extend over the whole primary field of study. The final oral examination is governed by the rules of the Graduate School of The University of Alabama. All faculty members of the Manderson Graduate School of Business are invited to attend final oral examinations. The candidate will present a copy of the final draft of the dissertation to each committee member at least two weeks in advance of the final oral examination.

Time limit for completion of the PhD

A student entering the PhD program must complete all requirements for the PhD degree within seven years of the date of admission in the graduate program. If a student is suspended from the PhD program for exceeding the time limits for completion of the program, the individual may petition the department chair and the Culverhouse College of Business PhD Programs Committee.

Extension of time and/or additional requirements for readmission to the program must be recommended to the Graduate School of The University of Alabama by the student's departmental graduate faculty and the dean of the college. A maximum one-semester extension may be granted in those rare instances in which the student presents documentation of compelling circumstances beyond the student's control that made it impossible to complete the degree within 21 semesters after admission.

See Time Limits Extension Request (Doctoral Only) (p. 23) for the steps in the University's policy and conditions needed for the dean of the UA Graduate School to consider a one-semester extension.

Additional information on the doctoral time limit and all other requirements is in the Degree Requirements (p. 20) section of this catalog.

Admission Requirements

Master's degrees offered through the Manderson Graduate School of Business reflect a diverse range of missions and objectives. Enrollment in all master's programs is limited and competitive. Admissions are supervised by committees of the graduate faculty in each of the academic programs. The minimum admission requirements are:

1. admission to the Graduate School of The University of Alabama,
2. an acceptable score on the Graduate Management Admissions Test (GMAT) or the Graduate Record Exam (GRE) and
3. completion of an appropriate undergraduate degree.

A particular master's program may establish higher standards and/or specific prerequisites for admission. Further information about the requirements for admission to master's programs is included in the section of this catalog pertaining to each specific master's degree and major field or curriculum. Also, students are encouraged to visit the Manderson Graduate School web site and the Graduate Catalog's section on admission criteria (p. 11) for current information about degree programs.

Facilities

The Culverhouse College of Business complex consists of three buildings located in the central University campus. Mary Hewell Alston Hall, which was completed in 1991, houses faculty and administrative offices, seminar rooms, and four technologically innovative classrooms. The Angelo Bruno Business Library and Sloan Y. Bashinsky Sr. Computer Center was occupied in January 1994. This integrated business information center includes the expanded business library, three hands-on computer classrooms, and open computer labs for undergraduate and graduate students. Bidgood Hall, the traditional home of the College, reopened in January 1994 after extensive renovations. This building now houses 28 multimedia classrooms and two classrooms equipped to telecast and receive distance learning classes. The business complex
is equipped with a wireless network allowing full Internet access from laptops and other equipped devices. Bidgood Hall also houses the offices of the Manderson Graduate School of Business, office space and group study facilities for graduate students, and the research centers affiliated with the College.

**Angelo Bruno Business Library**

The Angelo Bruno Business Library serves the business information needs of The University of Alabama and in particular the students and faculty of the Culverhouse College of Business and the Manderson Graduate School of Business. The library serves over 400,000 visitors each year, which represents repeated use by C&BA students, faculty, staff, and others from the University community and beyond. The 64,000 square-foot facility is conveniently located on Stadium Drive within the C&BA complex and also houses the College’s Sloan Y. Bashinsky Sr. Computer Center. Combining business library services and business computer laboratory services in the same facility provides seamless access to information services for business students.

The Bruno Library’s resources comprise a wide variety of online computer databases and over 190,000 volumes, including hundreds of business periodicals in electronic or print formats. The Library is a fully networked environment offering enhanced access to electronic information sources. A wireless network facilitates students’ use of their laptop computers for accessing many business library databases from anywhere in the library and the C&BA complex. Library faculty and staff offer users specialized information assistance and services and individual and class instruction in library research and effective use of library databases. Special features include an electronic library instruction classroom and a variety of seating and study accommodations, including group study rooms for team assignments. The Bruno website provides convenient access to library resources, including specially licensed business databases, the library catalog, and the World Wide Web.

The Bruno Library’s databases, books, journals, and special collections offer excellent support of the C&BA teaching and research fields in business, economics, finance, accounting, information systems, and statistics. Full-text access to business-related periodicals and newspapers is available through such databases as ABI/Inform, Business Source Premier, Factiva.com, and LexisNexis. Extensive worldwide data on publicly traded securities of all kinds is available from Bloomberg Financial Markets and News. Other resources provide coverage of important topics such as company financial data, industry profiles, international business, and tax regulations and cases. The Bruno Library’s extensive collection of historical corporate annual reports has received national recognition.

The Angelo Bruno Business Library provides convenient access to information resources through technologically advanced as well as traditional means. User service is a major emphasis. Our goals are to tailor our collections and services to meet the needs of C&BA undergraduate and graduate students and faculty and to deliver the best possible mix of traditional and technologically advanced library services.

**Technology Group**

The Technology Group was established in 1984 to provide computing facilities for the College of Business Administration students and faculty. The C&BA network connects over 400 lab and desktop computers to the campus network and the Internet. Our network file servers provide access to dozens of powerful applications specific to the various disciplines of the College. There are 7 professional staff and 40 student employees available to provide technical assistance to our faculty, staff, and student users.

The Bashinsky Lab, completed in 1994, offers a 20-seat collaborative multimedia facility, two 40-workstation multimedia classrooms, a 60-workstation open lab and a 20-workstation graduate lab. The E-Commerce Lab in Bidgood Hall was completed in 2001 and provides 16 group workstations. A Special Projects Lab was also completed in 2001. This lab provides students working on class projects with 10 workstations, an LCD projector, and a conference table.

There are 27 multimedia classrooms within the College featuring high-resolution projectors, PA system, wireless microphones, DVD, VHS, and access to all network resources. Training is available to faculty and staff on the usage of these classrooms.

The Technology Group provides support for faculty, staff, and student e-mail accounts, Web accounts, ftp, and personal network storage. They also support color laser network printing, college-wide wireless computing, and remote access for faculty and staff. Faculty can also obtain support for Web and presentation development, imaging, and video services.

Detailed information on the services offered by the Technology Group is available at the website of the Culverhouse College of Business.

**Research & Outreach**

- **Alabama Center for Economic Development**
- **Alabama Center for Insurance Information and Research**
- **Alabama Center for Real Estate**
- **Alabama Entrepreneurship Institute**
- **Alabama International Trade Center**
- **Alabama Productivity Center**
- **Alabama Small Business Development Center (SBDC)**
- **Center for Business and Economic Research**
- **Culverhouse LIFT**

**General Business Administration Courses**

- **GBA515 Effective Negotiations**
  Hours 3
  This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.

- **GBA525 Business Policy**
  Hours 3
  An integrative study of the manager’s role as chief strategy maker and chief strategy implementer, using case analysis and management simulation techniques.

- **GBA526 Competitive Strategy**
  Hours 3
  Examines conceptual tools for the in-depth analysis of industries and competitors; how to build and defend competitive advantages and how to formulate a successful competitive strategy. Usually offered spring semester.

- **GBA527 Strategy Implementation**
  Hours 3
  An examination of the tasks of strategic leadership and the action alternatives for matching internal organizational conditions to the requirements of strategy execution. Usually offered spring semester.
GBA571 STEM Business Honors VII

UH

Hours 1.5

This course is the seventh in a series of eight STEM Business Honors courses that students take in the STEM Path to the MBA. It is intended to be taken in the fall semester of the students’ senior year. It will focus on a year-long (two semester) project.

Prerequisite(s): GBA 371 and GBA 372

University Honors

GBA572 STEM Business Honors VIII

Hours 1.5

This course is the last in a series of eight STEM Business Honors courses that students take in the STEM Path to the MBA. It is intended to be taken in the spring semester of the students’ senior year. It will focus on a year-long (two semester) project.

Prerequisite(s): GBA 371, GBA 372, and GBA 571

GBA591 Independent Study

Hours 1-3

Open to all graduate students on an elective basis. This course offers students an opportunity to pursue a course of study that they design according to their own interests. Students may also work on a faculty-directed research project and receive credit.

GBA592 Managerial Internship

Hours 3

Open to all graduate students on an elective basis. Through the cooperation of participating organizations, students are exposed to actual management situations and are given an opportunity to apply classroom knowledge to practical decision problems.

GBA596 Capstone Project

Hours 1-3

The course requires the student to apply his/her knowledge of the field of General Business to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

Health Care Management Courses

HCM570 Introduction to Health Systems

Hours 3

This course provides a basic overview of health insurance, financing, delivery and payment in the US health system compared with other health care systems.

HCM573 Advanced Issues in Health Care Management

Hours 3

This course examines current policy and social issues in health care management. Students develop the analytical skills needed by decision makers of health care organizations.

HCM576 Advanced Principles of Long-Term Care

Hours 3

This course examines basic and advanced concepts of long term care organizations and management, with an emphasis on understanding the current delivery system and the unique challenges faced by practitioners, as well as the needs of long term care stakeholders.

HCM596 Capstone Project

Hours 1-3

This course requires the student to apply his/her knowledge of the field of Healthcare Management to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

International Business Administration Courses

Students who are interested in international business may select a concentration in economics or marketing. International courses are offered in marketing, economics, finance, legal studies, and accounting. It is strongly recommended that interested business students develop a working knowledge of a language other than English. Opportunities for dissertation research in international business are available in economics, management, and marketing.

IBA550 Global Business

Hours 1-3

A seminar emphasizing the environmental factors affecting international business operations, and studying different economic, social, cultural, legal, and other environmental conditions and their influence on both the formulation and execution of business policy of firms engaged in multinational business.

IBA555 Global Market Management

Hours 3

The object of this course is to investigate the effects of cultural similarities and differences on marketing practices worldwide. Also examined are the effects of market idiosyncrasies on globally oriented products, promotion, pricing, and distribution strategies.

IBA560 Advanced Import/Export Strategy

Hours 3

This course will provide a detailed overview of marketing, management, and logistics issues relative to setting up and operating an import/export firm or engaging in these activities in an existing firm.

IBA596 Capstone Project

Hours 1-3

This course requires the student to apply his/her knowledge of the field of International Business Administration to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

IBA597 Special Topics: Independent Study

Hours 3

This course offers faculty a chance to present topics of interest to themselves and to students with interests in international business.
Other International Course Offerings

EC530 International Trade
Hours 3
Analysis and policy implications relating to the international movement of goods, resources, and financial assets.

FI531 International Finance
Hours 3
An examination of the foreign exchange market, exchange rate determination, international financial institutions, and the management of the risks associated with international business.

Business Administration, MBA

Objective
The objective of the Manderson MBA program at The University of Alabama is to prepare high-achieving, high-potential students for successful business careers in a globally competitive environment. The MBA program has a commitment to providing a high value-added experience within a diverse and collaborative learning environment. The curriculum emphasizes fundamental business concepts, knowledge, and skills through an interdisciplinary perspective. Case studies, projects, teamwork, and technology contribute to a dynamic applied learning environment.

MBA Program Formats
The Manderson MBA Program is offered in a variety of formats. The Traditional MBA is a full-time, two-year program that requires a concentration. The STEM Path to the MBA is also a full-time, two-year program integrated with University of Alabama undergraduate STEM majors that requires a specialization. The Executive MBA is a weekend program for mid- to upper-level managers offered in two formats, one in Tuscaloosa and one in Huntsville.

Traditional MBA
Students take a prescribed program of courses and cross-discipline work that blends the analytical tools of management and the functional areas of business into a general management perspective. Topics include accounting, economics, finance, management, marketing, operations, strategy, communications, information systems, and statistics. In addition, each student pursues elective courses leading to a mandatory area of concentration. All course selections for the area of concentration must be made with the advice of a designated graduate faculty member. Teaching methods combine cases, lecture-discussion, and projects. The small size of the program allows faculty members to use a variety of techniques for enhancing learning.

See specific Traditional MBA Admissions Requirements.

STEM Path to the MBA
The STEM Path to the MBA is a five-year program designed for entering University of Alabama freshmen majoring in a STEM area (science, technology, engineering, or mathematics). This program integrates STEM business honors courses with the undergraduate STEM program and culminates in the MBA program.

During each semester of their four years of undergraduate study, students enroll in a 1.5 credit-hour STEM Business Honors course. These honors courses focus on communication and leadership skills. Students work in teams on community projects to develop both an appreciation for and a basic understanding of the importance of management skills in science and technology careers and to create an opportunity to interact with other STEM students, as well as with executives from technology companies and MBA faculty members.

The STEM Business Honors courses are taught by a faculty member who is assigned to the cohort in the freshman year, and works with them through their senior year. This provides continuity of contact and allows the faculty mentor to track the students through the program.

During the sophomore, junior, and senior years, STEM discipline students can expect to be off campus and involved in internships, cooperative-learning experiences, and other online learning activities. The STEM Business Honors courses include extensive use of digital technology: streaming video of presentations from guest speakers, teleconferencing for student presentations and class meetings using Skype and similar technologies, and the use of course-management software that allows off-campus students to remain engaged and participate in coursework.

See additional information on the STEM Path to the MBA Program.

Executive MBA (EMBA) Weekend Program
The Executive MBA program provides working professionals with the tools, skills, and knowledge essential for expanding and/or pursuing new career options in business. Weekend classes allow students to pursue the MBA degree without sacrificing current employment. This program requires 48 semester hours of coursework in a lock-step cohort format. Classes meet on Fridays and Saturdays. The program is offered in two formats. The Tuscaloosa EMBA program meets roughly every other weekend in a face-to-face format over 17 months. The Huntsville EMBA program meets one weekend per month in a blended in-class/face-to-face format over 21 months. Both programs include an international trip/experience in the final term where students visit with the senior management of global companies of a particular country. Technology is used to enhance classroom learning and to facilitate student and faculty interaction when students are away from campus.

See additional information on the EMBA Program.

Dual Degrees

JD/MBA Joint Degree Program in Law and Business
The University of Alabama School of Law and the Manderson Graduate School of Business offer students who are interested in combined business and legal career opportunities a law and MBA curriculum culminating in the awarding of the juris doctor (JD) and MBA degrees within four years. Admission is required into both programs. Further information about the joint JD/MBA Program may be obtained by contacting the director of the MBA Program and/or the Law School admissions office as well as by visiting the respective websites.

MBA Dual Degrees in Engineering
The Manderson Graduate School of Business and the College of Engineering offer students from an engineering background an opportunity to receive both their MBA and Master of Science in engineering (Civil or Mechanical) within two calendar years. Prospective students must be admitted to both programs before being allowed to pursue the dual curriculum. Further information about the dual MBA/ENG programs may be obtained by contacting the director of the MBA Program and/or the Engineering admissions office as well as by visiting the respective websites.

MBA/MFA Dual Degree
The Manderson Graduate School of Business and the College of Arts and Sciences offer students an opportunity to receive both their MBA
and their Master of Fine Arts (Theater Management) within four years. Prospective students must be admitted to both programs before being allowed to pursue the dual curriculum. Further information about the dual MBA/MFA program may be obtained by contacting the director of the MBA Program and/or the Theater Management office as well as by visiting the respective websites.

For general admissions policies of the Graduate School, click below.

See the Admission Criteria section of this catalog for more information.

**Admission Requirements**

Admission to the MBA program requires a bachelor’s degree from a regionally accredited college or university. Applicants also must show evidence of career interest in management. Relevant employment experience may be considered in the admissions decision but is not a prerequisite. GMAT or GRE scores are required. Candidates who have already completed a post-baccalaureate degree or who have seven years or more of appropriate full-time post-baccalaureate work experience may request a GMAT/GRE waiver. Strong quantitative and verbal skills are required. Students are encouraged to provide evidence of those skills, especially if they are not evident in other application materials. Students whose native language is not English are required to complete the Test of English as a Foreign Language (TOEFL).

Following an initial review of completed application materials, qualified applicants are asked to arrange campus interviews. When campus interviews are not feasible, video interviews may be substituted. Admission recommendations are made by a faculty admissions committee after reviewing a candidate’s application materials and are based on an assessment of the candidate’s suitability for the Manderson MBA program; the Graduate School makes the final determination on each applicant’s recommendation by the faculty admissions committee. A strong academic record is a necessary but not a sufficient criterion for admission. Applications should be submitted by April 15 prior to the fall of the year of intended enrollment. Applications received prior to February 15 will receive priority for financial assistance. Students must begin the program in the fall semester and must be enrolled for four consecutive semesters plus the summer of the intervening year. During the summer, students are expected to be involved in meaningful internships to further enhance their professional experiences.

A student entering the MBA program is expected to have a good working knowledge of word-processing and spreadsheet software.

See specific Traditional MBA Admissions Requirements.

See our STEM Path to the MBA Program website.

See our EMBA Program website.

**Culverhouse School of Accountancy**

- Majors
  - Accounting (MMA) (p. 270)
  - Tax Accounting (MTA) (p. 277)
  - Accounting (Ph.D.) (p. 272)

The courses below are offered by the Manderson Graduate School of Business. Courses offered by other divisions of the University that business students are either required to take or permitted to elect are listed under the appropriate department in this catalog or in the undergraduate catalog. Prerequisites for any course may be waived if the student has equivalent knowledge or if the student passes an examination on the required prerequisites.

**AC501 Basic Acctg Managrl Finan Cont**

Hours 3

Study of the fundamentals of financial accounting. Attention is given to the interpretation and uses of information contained in financial statements.

**AC502 Acctng Management Decisions**

Hours 3

Study of the fundamentals of managerial accounting. Attention is given to the use of accounting by business managers.

Prerequisite(s): AC 501

**AC506 Concepts Financial Managrl Acc**

Hours 3

Basic accounting concepts and procedures with an emphasis on the use of accounting information by business managers.

**AC512 Adv Financial Reporting/Analys**

Hours 3

Advanced topics in financial accounting and reporting considered from a practical and theoretical perspective.

**AC515 Current Issues in the Accounting Profession**

Hours 3

This course is for accounting students who are returning from a spring internship.

**AC523 Business Valuatn Perform Measm**

Hours 3

The analysis of accounting information for purposes of valuing businesses for investment, credit, and related decisions.

**AC532 Corp Governance Risk Assessmnt**

Hours 3

Advanced study of standards, concepts, procedures, and professional ethics underlying governance and the provision of assurance services.

**AC534 Fraud & Ethics Risk Management**

Hours 3

Advanced study of the forensic accounting profession, fraud prevention, detection, and investigation, and the character needed to manage ethical challenges.

**AC548 Financial Statement Analysis**

Hours 3

Discussion and application of a common framework for the analysis of general purpose financial statement information for a variety of contexts. Includes discussions of the accounting process, availability and relevance of financial information, analytical implications of selected intermediate and advanced accounting concepts, required disclosures, and various analytical techniques available to the accounting or finance professional.

Prerequisite(s): Admission to Master of Accountancy (MAcc) program or permission of the instructor.
AC554 Professional Certification
Hours 3
Examination of accounting standards and procedures required for professional accounting certification.

AC556 Governmental Nonprofit Accounting
Hours 3
Special features of budgetary and fund accounting as applied to municipalities, other governmental units, and institutions such as schools and hospitals.

AC561 Accounting Business Management
Hours 3
Concepts and procedures employed in developing and using accounting information for management decisions.

AC575 Tax on Corporation Shareholders
Hours 3
A study of federal income tax problems of corporations and the relationships of these problems to the tax problems of the corporate shareholder.

AC576 Advanced Corporate Taxation
Hours 3
A study of the tax accounting problems relating to corporate organizations, commonly controlled corporations, and consolidated tax returns.
Prerequisite(s): AC 471

AC578 Partnership Taxation
Hours 3
Designed to explore, in depth, the taxation of the formation, operation, and disposition of partnerships and LLCs. In addition, a brief review of the taxation of S corporations is presented.

AC582 State and Local Taxation
Hours 1-3
Introduction to state and local taxation of businesses.

AC589 Systems Analysis & Control
Hours 3
Examination of information systems development and control issues from the perspective of ensuring relevance, reliability, and security of business systems and information.

AC592 Accounting Internship
Hours 3
No description available

AC593 Research & Communication Taxation
Hours 3
A study of tax research procedures, documentation of research, and presentation of research findings.

AC597 Special Topics in Accounting
Hours 1-6
No description available

AC610 Intro Accounting Res I
Hours 3
Study of the production of accounting research, with specific focus on the scientific method. Intensive focus on problem identification and communication, and theory and hypothesis development.

AC620 Acctg Research Sem I
Hours 3
Study of advanced research methods with intensive focus on design and method development, data analysis, and interpretation of results.

AC630 Archival Accounting Research
Hours 3
Study of the archival accounting research literature.

AC640 Experimental Accounting Research
Hours 3
Study of the experimental accounting research literature.

AC650 Directed Research
Hours 3
Examination of the literature and methodology associated with a specific research topic. Directed focus on development of second-year paper.

AC691 Research Practicum I
Hours 3
Development of a first-year project under the supervision of a faculty member. Resulting papers are presented at a departmental research workshop.

AC692 Research Practicum II
Hours 3
Development of a second-year research project under the supervision of a faculty member. Resulting papers are presented at a departmental research workshop.

AC698 Research Colloquium Series
Hours 1
Participation in a research colloquium series involving scholars from top academic institutions.

AC699 Dissertation Research
Hours 1-15
No description available

Faculty
Department Chair
Richard Houston
M Acc Coordinator
Tom Fitzgibbon
MTA Coordinator
Ed Schnee
PhD Coordinator
Gary Taylor
Accounting, MMA

Admission requirements

Before admission to the program, students should have completed the following accounting courses or their equivalents:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 510</td>
<td>Financial Reporting &amp; Analysis of Business Activities I</td>
<td>3</td>
</tr>
<tr>
<td>AC 511</td>
<td>Financial Reporting &amp; Analysis of Business Activities II</td>
<td>3</td>
</tr>
<tr>
<td>AC 361</td>
<td>Cost Analysis for Planning &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 389</td>
<td>Accounting Information Systems - Development, Operation, and Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 432</td>
<td>Intro to Corporate Governance, Risk Assessment, and Assurance Services</td>
<td>3</td>
</tr>
<tr>
<td>AC 456</td>
<td>Government &amp; Nonprofit Accounting (Students who have not taken AC456 and/or AC471 or their equivalents must take AC556 and/or AC471 (for graduate credit) as graduate electives.)</td>
<td>3</td>
</tr>
<tr>
<td>AC 471</td>
<td>Taxation of Business Transactions &amp; Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who have not taken AC456 and/or AC471 or their equivalents must take AC556 and/or AC471 (for graduate credit) as graduate electives.

See the Admission Criteria section of this catalog for more information.

Degree requirements

The master of accountancy degree program is a fifth-year professional program. The objective of the program is to provide students with greater breadth and depth of understanding in accounting and business than is possible in an undergraduate program. The program prepares students for careers as professional accountants in public accounting, financial institutions, government, industry, and nonprofit organizations. Graduates are prepared to research various databases related to troublesome accounting problems, and to exercise judgment in making accounting-related decisions by drawing on their integrated, comprehensive body of accounting and business knowledge. Students are required to complete a minimum of 30 hours of approved coursework beyond the undergraduate degree. A minimum of 24 hours must be taken in courses open only to graduate students.

The following courses are required for the MMA degree. A minimum of 21 hours of accounting courses (required and elective) must be completed. Electives in areas other than accounting are chosen in consultation with the student's advisor and may be taken from the student's fields of study. The School of Accountancy will not accept more than six hours of transfer graduate credit from master students.

Course requirements for MMA program

Students must take a minimum of 30 hours of graduate courses, including a minimum of 21 hours of accounting courses. Electives must be approved by the coordinator of the MMA program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 512</td>
<td>Adv Financial Reporting/Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

AC 523 Business Valuatn Perform Measm 3
AC 532 Corp Governance Risk Assessmt 3
AC 534 Fraud & Ethics Risk Management 3
AC 548 Financial Statement Analysis 3
AC 561 Accounting Business Management 3
AC 589 Systems Analysis & Control 3

MMA students may take one of the following tax courses with permission:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 593</td>
<td>Res &amp; Communicatin Taxation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 33

Master's Degrees

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No course credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing
education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate
facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Accounting, Ph.D.
The PhD Program in Accounting is a research-intensive program that provides excellent preparation for a career in academics. The four-year program is designed to provide the tools needed for long-term success as an accounting scholar in all areas, including research, teaching, and service. An applicant who is accepted for admission to the Culverhouse School of Accountancy PhD Program will be admitted as a regular full-time in-residence PhD student. The Culverhouse School of Accountancy PhD Program has no other category of admissions.

The Culverhouse School of Accountancy's faculty supports students interested in archival/empirical and behavioral/experimental research in auditing, financial accounting, and tax. We seek to admit, train, and graduate students who have initiative, enthusiasm, and a desire to become scholars at major academic institutions.

Admission decisions are made by the PhD program committee after considering applicant background, GMAT scores (660 minimum) or GRE scores (1200 minimum), grade point averages (GPAs), letters of reference, fulfillment of prerequisites, and an on-campus interview. The GMAT is preferred, but students may choose to take either the GMAT or the GRE. All international students are required to submit a Test of English as a Foreign Language (TOEFL) score (600 minimum) and a Test of Spoken English (TSE) score (230 minimum).

Early application increases the probability of admission. The following provides an approximate timetable of Graduate School application dates:

The PhD committee begins reviewing applications on the 1st of September in the year prior to admission. The admissions process will be completed when the class is full.

The Ph.D. Program in Accounting involves two years of rigorous coursework. In addition to Accounting seminars, students take courses in Statistics and Economics. Depending on their research focus, students often will take additional electives in other departments such as Psychology or Finance.

The program has two significant research milestones that students must meet before progressing to the dissertation phase. The first year paper, typically a scholarly review of existing accounting literature that addresses a specific research area, is completed by students in their first year and presented by June 30 following their first year of coursework. The second year paper is a complete, original, empirical study undertaken under the direction of the student's faculty advisor. Students must present the second year paper by June 30 following their second year of coursework. Students must successfully present and defend the second year paper before progressing to the dissertation phase.

Writing a dissertation is the final test of research skill. Students must demonstrate an understanding of relevant literature and methodology, and the ability to think independently. Ph.D. candidates must identify an original topic, plan a test of hypotheses, gather data, complete a written version of the dissertation, and defend it at a final oral examination, after which they finalize a document acceptable to the dissertation committee and to the Graduate School.

See the UA Graduate School webpage for additional guidance.
Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for
graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. **All doctoral programs:** Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring, and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. **PhD Programs Only:** A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved.

This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to
the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate
Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage.

Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Completed* means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours–Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.
Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Tax Accounting, MTA

The Master of Tax Accounting (MTA) degree program is a multidimensional approach to the education of the modern tax specialist. The program develops an understanding of the taxation system and the interrelationships that exist between that system and accounting theory; a basic knowledge of the legal system as it relates to taxation; and the basic tools necessary for research and communication in taxation. Graduates are prepared to research various tax, legal, and accounting databases related to troublesome tax problems and to exercise judgment in making tax-related decisions by drawing on their integrated, comprehensive knowledge of accounting and taxation.

Admission requirements

Before final admission to the program, students should have completed the following courses or their equivalents:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 310</td>
<td>Financial Reporting &amp; Analysis of Business Activities I</td>
<td>3</td>
</tr>
<tr>
<td>AC 311</td>
<td>Financial Reporting &amp; Analysis of Business Activities II</td>
<td>3</td>
</tr>
<tr>
<td>AC 361</td>
<td>Cost Analysis for Planning &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 389</td>
<td>Accounting Information Systems - Development, Operation, and Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 432</td>
<td>Intro to Corporate Governance, Risk Assessment, and Assurance Services</td>
<td>3</td>
</tr>
<tr>
<td>AC 471</td>
<td>Taxation of Business Transactions &amp; Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete AC471 or its equivalent prior to starting the program. Students who have not taken AC456 or its equivalent must take AC556 in addition to other required coursework.

Degree requirements

Students are required to complete a minimum of 30 hours of approved coursework beyond the undergraduate degree. At least 18 of these hours must be in coursework in the major field. A minimum of 24 hours must be taken in courses open only to graduate students, and 15 of these must be in courses in accounting and taxation at The University of Alabama. Students who will sit for the CPA exam in Alabama are required to take AC 456 Government & Nonprofit Accounting as part of their undergraduate or graduate program. To receive the master of tax accounting degree, the student must complete the required core courses with an average grade of "B" or better, and must maintain an average grade of "B" or better in all required accounting courses. The following core courses are required for the MTA degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 575</td>
<td>Taxn Corp Shareholders</td>
<td>3</td>
</tr>
<tr>
<td>AC 576</td>
<td>Adv Corporate Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 578</td>
<td>Partnership Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 593</td>
<td>Res &amp; Communicatn Taxation</td>
<td>3</td>
</tr>
</tbody>
</table>

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

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**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding
the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing
the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Department of Economics, Finance, and Legal Studies

- Majors
  - Economics (MA) (p. 283)
  - Economics (PhD) (p. 286)
- Finance (MS) (p. 291)
- Finance (PhD) (p. 293)

Economics
Intermediate macro- and microeconomic theory (EC 309 Intermediate Macroeconomics and EC 308 Intermediate Microeconomics or their equivalents) are considered prerequisites for all graduate coursework in economics, except for MBA-designated courses.

EC500 Managerial Economics
Hours 3
An introduction to the foundations of both micro- and macroeconomic analysis, including consumer demand, production and cost analysis, price determination, and macroeconomic theory and policy. Emphasis is on the theory of the firm.

EC508 Microeconomic Theory
Hours 3
An examination of the theory of resource allocation. Topics include demand theory, production and cost functions, theory of markets, general equilibrium analysis, and welfare theory.

EC509 Macroeconomic Theory/Policy
Hours 3
This overview of modern macroeconomic theory and its implications for the conduct of stabilization policies is intended to provide a solid background in macroeconomics for master’s students. The course also considers the microeconomic foundations of aggregate economic analysis.

EC512 Indust Org Public Policy
Hours 3
The theoretical and empirical study of large industrial firms in a market economy. The focus is on corporate and governmental policies affecting markets.
Prerequisite(s): EC 508

EC513 Economic Forecasting Analysis
Hours 3
A survey of the analytical techniques used by economists to forecast the macro- and micro-levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.

EC516 Monetary Theory & Policy
Hours 3
Theoretical and empirical analysis of the money supply process, the demand for money, the impact of money on the economy, and the implementation of monetary policy.
Prerequisite(s): EC 508 or EC 509

EC523 Public Finance
Hours 3
Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 508 and EC 470

EC530 International Trade
Hours 3
Analysis and policy implications relating to the international movement of goods, resources, and financial assets.

EC531 International Finance
Hours 3
An examination of the foreign exchange market, exchange rate determination, international financial institutions, and the management of the risks associated with international business.

EC570 Mathematical Economics
Hours 3
An introduction to mathematical tools commonly used in advanced economic theory and econometrics.

EC571 Econometrics
Hours 3
A quantitative analysis of actual economic phenomena based on the current development of theory and observation, related by appropriate methods of inference.

EC573 Games and Decisions
Hours 3
An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.

EC591 Independent Study
Hours 1-6
No description available
EC592 Internship
Hours 3

No description available.

EC596 Capstone Project
Hours 1-3
This course requires the student to apply his/her knowledge of the field of Economics to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

EC597 Special Topics In Economics
Hours 1-6
None.

EC610 Seminar In Microeconomic Theor
Hours 3
An advanced study of the modern theory of value and price. The seminar includes demand and supply analysis, marginal analysis, and the monopolistic and competitive structure of markets.

EC611 Seminar in Macroeconomic Theory
Hours 3
Selected topics in contemporary macroeconomic theory, with emphasis on dynamic analysis of cyclical fluctuations, stabilization policies, and growth.

EC612 Sem Industrial Organizat
Hours 3
A survey of selected topics in industrial organization. Both theoretical and applied topics are examined, with special emphasis on recent developments.

EC616 Sem Monetary Economics
Hours 3
Selected topics in contemporary monetary theory, with emphasis on determination of the value of money and the effectiveness of monetary policies.

EC623 Public Expend Policy Analysis
Hours 3
A survey of the public-economics literature, with emphasis on the theory of public goods, public choice, and income distribution policies.

EC624 Political Economy
Hours 3
A survey of selected topics in the field of political economy with an emphasis on voting theory, collective action and rent seeking.
Prerequisite(s): EC 610

EC631 Sem Internationl Finance
Hours 3
A survey of the most important professional literature dealing with international financial management.

EC640 Theory Of Risk And Ins
Hours 3
Foundation of insurance in risk theory and its problems and practices.

EC660 Game Theory
Hours 3
An introduction to non-cooperative game theory. Emphasis on applications in microeconomics and macroeconomics.
Prerequisite(s): EC 610

EC670 Econometrics
Hours 3
Introduction to methods of analyzing economic data. Topics include linear and non-linear least squares, maximum likelihood estimation, statistical inference, and methods for handling data problems.

EC671 Seminar : Econometrics
Hours 3
A study of selected topics and problems in econometrics emphasizing methodology for economic research measurements.

EC672 Financial Econometric Modeling
Hours 3
The application of econometric time-series methods to financial data. GARCH, nonlinear and cointegration models will be emphasized.
Prerequisite(s): EC 571 or ST 570 or EC 670

EC673 Nonparametric Econometrics
Hours 3
This course will discuss the principles of nonparametric methods. It will provide intuitive explanations of theoretical concepts and empirical examples of nonparametric techniques.

EC676 Advanced Monetary Policy
Hours 3
This course is geared towards developing skills to conduct research in the areas of monetary theory and policy analysis. It builds on advanced topics that were introduced in Economics 616: Graduate Seminar on Monetary Economics. By the end of the semester, each student should have completed the initial stages of developing a potential dissertation chapter.
Prerequisite(s): EC 611 and EC 616

EC678 Research In Economics
Hours 1-6
Consists of supervised study and investigation of specific problems in economics. Only open to graduate students nearing completion of coursework for the degree.

EC679 Dissertation Research
Hours 1-15

Finance

Finance
EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics or their equivalents are prerequisites for all graduate coursework in finance, except for MBA-designated courses.
FI504 Financial Management
Hours 1-4
Corporation financial planning and decision making; working capital management, capital budgeting, financing, risk-return analysis, valuation, and dividend policy.

FI505 Corporate Valuation
Hours 3
A case study course that focuses on the valuation of publicly held firms.

FI506 Mergers & Acquisitions
Hours 3
An examination of corporate acquisitions, including firm valuation, bidding contests, and defense managers, as well as the corporate tax and legal environment.

FI510 Financial Management
Hours 3
A course concerned with the management of corporate capital. Emphasis is on analysis of problems.

FI512 Money And Capital Mkts
Hours 3
A detailed analysis of the role of money and capital markets in the financial process and of the influence outside forces have on these markets.

FI514 Investments
Hours 3
An overview of the investment decision process. Areas covered are financial statement analysis, risk measures, stock-price valuation models, and portfolio management.

FI515 Quantitative Investment Analys
Hours 3
Acquaints the student with the quantitative approaches used in modern portfolio theory and investment analysis.

FI516 Monetary Theory & Policy
Hours 3
Theoretical and empirical analysis of the money supply process, the demand for money, the impact of money on the economy, and the implementation of monetary policy.

FI519 Financial Engineering
Hours 3
Advanced quantitative analysis designed to improve managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes, with specific attention given to employing futures, options and swap contracts.

FI520 Financial Risk Management
Hours 3
Advanced methodologies of valuing and managing financial derivative contracts are introduced, including numerical integration, lattice approaches and simulation. A particular emphasis is given to implementing these methodologies as computer programs.

FI522 Bank Administration
Hours 3
A case course examining various aspects of managing a commercial bank in a dynamic environment.

FI531 International Finance
Hours 3
An examination of the foreign exchange market, exchange rate determination, international financial institutions, and the management of the risks associated with international business.

FI534 Seminar In Real Estate
Hours 3
A survey of the major topics and issues in real estate, including real estate investment, alternative financing arrangements, law and agency theory, appraisal, market analysis, taxation, and brokerage.

FI535 Real Estate Invest & Develpmnt
Hours 3
A study of the concepts and principles of real property valuation and the analysis of real estate investments.

FI591 Independent Study
Hours 1-6
No description available.

FI592 Internship
Hours 3
No description available.

FI596 Capstone Project
Hours 1-3
This course requires the student to apply his/her knowledge of the field of Finance to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

FI597 Special Topics: Finance
Hours 1-6
No description available.

FI601 Finance Theory I
Hours 3
Advanced practices of financial management and their application to decision making in the business firm.

FI602 Finance Theory II
Hours 3
An extension of the content of previous courses to summarize modern developments in financial theory.

FI610 Seminar In Finan Mgt
Hours 3
Advanced management theory and techniques in the finance area. Emphasis is on current publications in the academic finance literature.

FI614 Seminar In Investments
Hours 3
Provides an understanding of theoretical and functional aspects of professional investment management theory.
The University of Alabama 2018-2019

FI624 Financial Markets
Hours 3
This seminar provides for a deep understanding of the monetary and financial system, required of finance specialists in corporate finance, banking, and investments.

FI640 Theory Of Risk And Ins
Hours 3
The foundation of insurance in risk theory and its problems and practices.

FI698 Research In Finance
Hours 3
These courses consist of supervised study and investigation of specific problems in finance. They are open only to graduate students nearing completion of coursework for the degree.

FI699 Dissertation Research
Hours 1-15
No description available

Legal Studies
The School does not offer a graduate-level major program in legal studies. However, these courses will add breadth and a valuable background to any of the available graduate programs, by incorporating understanding of law within other disciplines.

LGS504 Legal Issues Accounting
Hours 3
Study of various legal issues in the accounting profession. Among topics covered are accountant liability, commercial transactions, and business organizations.

Faculty
Department Head
Laura Razzolini

Economics, MA
The MA program in economics is designed to prepare students for careers as professional economists in business, government agencies, colleges, and universities.

Admission Requirements
Entering graduate students are expected to have completed undergraduate coursework in economics, statistics, and mathematics. Students must have completed the following undergraduate courses or their equivalents:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 309</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121 or MATH 125</td>
<td>Calculus &amp; Applications</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Any deficiencies should be made up by taking courses during the summer before entering the master’s program.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
There are three tracks available for the MA degree in economics. Track I provides preparation for the PhD in economics, Track II is designed for students who wish to pursue careers applying economic analysis and Track III provides a strong foundation for students who have strong interests in public policy issues.

Track I
The following are the requirements for the MA degree in economics to prepare for the PhD:

<table>
<thead>
<tr>
<th>Required courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 570 Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 610 Seminar In Microeconomic Theor</td>
<td>3</td>
</tr>
<tr>
<td>EC 611 Sem in Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>EC 616 Sem Monetary Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 660 Game Theory</td>
<td>3</td>
</tr>
<tr>
<td>EC 670 Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>EC 671 Seminar : Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ST 554 Math Statistics I</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 24

Electives
Select any two graduate-level economics courses at the 500 level. These can be selected from the following areas: applied microeconomic theory, monetary economics, or public economics.

Credit Hours Subtotal: 6

Total Hours 30

1 Students who have taken EC 470 Introduction to Mathematical Economics or its equivalent (with a grade of "B" or above) will be allowed to waive this requirement. All students who have not taken this course are very strongly urged to take it in the summer prior to entry into the program in the fall semester.

Track II
The following are the requirements for the MA degree in applied economics:

<table>
<thead>
<tr>
<th>Required courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 513 Economic Forecasting Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EC 571 Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>EC 508 Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>EC 509 Macroeconomic Theory/Policy</td>
<td>3</td>
</tr>
<tr>
<td>EC 570 Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>ST 521 Statistical Data Management</td>
<td>3</td>
</tr>
<tr>
<td>ST 522 Adv Statistical Data Mgt</td>
<td>3</td>
</tr>
<tr>
<td>ST 531 Data Mining I</td>
<td>3</td>
</tr>
<tr>
<td>ST 532 Advanced Data Mining</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 27

Elective courses
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 516</td>
<td>Monetary Theory &amp; Policy</td>
</tr>
<tr>
<td>EC 531</td>
<td>International Finance</td>
</tr>
<tr>
<td>EC 597</td>
<td>Special Topics In Economics</td>
</tr>
</tbody>
</table>
Track III

The following are the requirements for the MA degree in public policy economics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 531</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>EC 530</td>
<td>Money And Capital Mkts</td>
<td>3</td>
</tr>
<tr>
<td>EC 523</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>EC 516</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>EC 514</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>EC 571</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 596</td>
<td>Capstone Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 30

1 Students who wish to avoid taking a comprehensive exam should choose EC 596 Capstone Project. The purpose of this class is to provide students an opportunity to complete projects using economic analysis. This would provide a capstone experience for students in the program.

Other courses may be substituted as electives with permission of the graduate program committee. For Track II students, the EC 596 class will generally be offered in the spring, and as needed in the summer, to allow students to complete their program within one calendar year.

Master's Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.
In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.
Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

Economics, Ph.D.
The Economics PhD program provides students with the advanced training and knowledge necessary to pursue positions leading to careers in research and teaching at other institutions of higher learning, careers in economic analysis and forecasting, and careers in public policy analysis within local, state, or federal government. The PhD is awarded to students who excel in the comprehensive examination and who write a dissertation that demonstrates their ability to do independent research. The coursework for the PhD is an initial exposure to major contributions in the literature and applications of the methodology. Students acquire competence through study of the literature and development of research skills. The program develops this competence.

See the Admission Criteria section of this catalog for more information.

Qualifying Exams
As a part of the regular sequence in the Economics Ph.D. program, students are required to pass a qualifying examination, which is administered at the end of their first year of study. The exam is normally offered in May.

The exam is comprised of two parts: microeconomics and macroeconomics. To be eligible to continue in the Ph.D. program, a student must pass both parts of the exam. If a student has successfully passed both parts of the exam by the end of August, the student will be allowed to continue in the Ph.D. program.

The Dissertation
During the third year, students are expected to commence work on the dissertation. Students are transferred from the program committee to a dissertation committee and formally begin work on their thesis defense.

Writing a dissertation is the final test of research skills. It requires an understanding of relevant literature and methodology, as well as the ability to think independently. Ph.D. candidates must find an original topic, plan a test of hypotheses, and write and defend at a final oral examination a document acceptable to the dissertation committee and to the Graduate School.

Doctoral Degrees
The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs
from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.
1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

### Time Limits Extension Request

Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student describes the compelling circumstances,
- briefly describes the current status of the dissertation, then
- includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student's doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School.

### Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

### Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student's department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.
Preliminary or Comprehensive Examination

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

• any foreign language/research skill requirements are met (PhD students only);
• two full years of graduate study are completed; and
• the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:
Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the &quot;University Academic Calendar&quot;)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours–Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student's original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human
Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Finance, MS
The Master of Science in finance program offers a specialized curriculum with focused training in finance. The course of study is designed to provide insight into the following topics:

1. the important role of financial intermediaries;
2. the management of financial intermediaries and an understanding of the markets in which they participate;
3. the valuation of financial assets such as stocks, bonds, derivatives, and other specialized assets, and how they are managed in a portfolio;
4. the determination and behavior of interest rates and rates of return on assets; and
5. the incentives and determinants of corporate behavior.

The Master of Science in finance is designed to offer advanced applied and theoretical expertise in investments, banking, corporate finance, and/or financial engineering. The financial risk strategy track within this master's program addresses modern techniques for managing financial risk. Students selecting this track will have the opportunity to be trained in state-of-the-art techniques in valuing and using derivative securities, with a particular emphasis on mortgage-backed securities, structured notes, and computer-based solution design within an object-oriented framework.

Successful completion of the master's program in finance provides students with knowledge useful for pursuing careers in investments, financial management, banking, and other financial services. With the appropriate choice of courses, students can apply to transfer many of their master's courses into the doctoral program in finance.

Admission Requirements
Students accepted into the program are not required to have obtained an undergraduate degree in business. Before commencing the program, however, the student is advised to have completed the equivalent of undergraduate courses in accounting, statistics, calculus, economics, and finance. Any deficiencies should be made up by taking courses during the summer before entering the master's program.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
The following courses are required for the master's degree in finance:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 597</td>
<td>Special Topics In Accounting (Taken as Financial Statement Analysis)</td>
<td>3</td>
</tr>
<tr>
<td>EC 509 or EC 611</td>
<td>Macroeconomic Theory/Policy or Sem in Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>EC 571</td>
<td>Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>FI 510</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FI 512</td>
<td>Money And Capital Mkts</td>
<td>3</td>
</tr>
<tr>
<td>FI 515</td>
<td>Quantitative Investment Analys</td>
<td>3</td>
</tr>
<tr>
<td>FI 522</td>
<td>Bank Administration</td>
<td>3</td>
</tr>
<tr>
<td>FI 596</td>
<td>Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>Electives chosen with approval of advisor</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Master's Degrees**

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of
research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

**Graduate Credit**
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department's transfer policy.

**400-Level Courses**
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.
The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.**

**Finance, Ph.D.**

The PhD program in finance prepares students to pursue research and teaching careers at institutions of higher learning or research careers in government and business. In order to properly train students, the PhD program consists of courses in three areas: Finance, Economics, and Quantitative Methods (statistics and econometrics).

The program instills in students the capability to: understand research in the major areas of finance, identify opportunities for research in finance, effectively conduct financial research, and communicate financial principles to audiences consisting of students, faculty, and business professionals.

Students are required to demonstrate an advanced knowledge of finance, a minor area, and research methods. In addition, the student must demonstrate research competence by completing a dissertation.

**Qualifying Exam**

For the Ph.D. Finance curriculum, the Preliminary Qualifying Exam (PQE) is administered during August following completion of one full year in the program. The PQE asks specific problem-oriented questions that draw upon a knowledge-base that Ph.D. candidates are expected to have mastered. Students satisfying the scholastic requirements described in the Guide to Graduate Programs in Finance will be eligible to sit for the exam once they have successfully completed FI 512 Money And Capital Mkts, FI 515 Quantitative Investment Analysis and FI 601 Finance Theory I.

**Comprehensive Exam**

During the summer following the completion of the second year of coursework, the student will be required to prepare an original research paper (third-year paper) on a topic of interest to the student. The student will secure the participation of a faculty member to serve as the primary adviser in the preparation of the research paper. An adviser should be selected no later than May 31 following the student’s second year in the program.

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A first draft of the research paper must be submitted to the primary adviser no later than October 1 of the student’s third year. A draft which attempts to address any concerns of the primary adviser, which are to be specified in writing, should be submitted to the primary adviser and the academic coordinator of the Finance Ph.D. program no later than February 1 of the student’s third year in the program.

To satisfy the comprehensive examination requirement, the student must then orally defend the research paper before a committee of the Graduate Finance faculty, which may be a committee of the whole but not less than four Graduate Finance faculty members, prior to May 1 of the student’s third year in the program. The paper itself, the primary adviser’s initial concerns and the student’s response to the primary adviser’s concerns will be available to the committee a reasonable period of time before the presentation.

A student passing the comprehensive examination is eligible to defend a dissertation proposal. All dates specified herein are the latest dates at which the requirements can be met. Students are encouraged to complete and orally defend the research paper at the earliest possible date.

The Dissertation

After defense of the third-year paper, students will need to form a dissertation committee and formally begin work on their dissertation. Writing a dissertation is the final test of research skills. It requires an understanding of relevant literature and methodology, as well as the ability to think independently. Ph.D. candidates must find an original topic, plan a test of hypotheses, and write and defend at a final oral examination a document acceptable to the dissertation committee and to the Graduate School.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.
Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time
limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student:
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after:

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.
Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester, but before 4:45 p.m. on the last-possible day for the semester before the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

The University Calendar is available at the Academics tab of the website of the University Registrar.

**Article-Style Dissertations**

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
• Finance
• Geological Sciences
• Health Education and Promotion
• Management
• Management Science
• Marketing
• Mechanical Engineering
• Metallurgical and Materials Engineering
• Physics
• Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Information Systems, Statistics and Management Science

- Majors
  - Applied Statistics (MS) (p. 302)
  - Applied Statistics (PhD) (p. 305)
  - Operations Management (MS) (p. 310)
  - Operations Management (PhD) (p. 313)

Management Information Systems
MIS511 Management Information Systems
Hours 1-3
Motivation for, construction of, and application of MIS. Topics include IS strategic alignment, information intensive business processes, and decision making. Business analysis techniques are emphasized for systems such as TPS, e-business, management reporting systems, and data warehouses.

MIS514 Information Tech Bootcamp
Hours 3
In-depth treatment of software engineering techniques for information systems business solutions.
MIS516 MIS Practicum
Hours 3
Experiential learning in a dual-coached, commercial IS environment reporting to faculty and organizational management. Projects started during the practicum continue through the remainder of the program.

MIS520 Systems Analysis And Design
Hours 3
Techniques and methodologies of systems analysis and design are introduced, including conducting project scoping, requirements elicitation, requirements definition, and operations specifications.

MIS525 Informatics Systems Project Mgt
Hours 3
Techniques and methodologies of project level scoping, staffing, planning, scheduling, monitoring, and controlling the development of value-added information technology business solutions on time and within budget.

MIS527 Emerging Info Technologies Sem
Hours 3
Course covers fundamental purchasing systems applications, supplier relations and evaluation, strategic planning in purchasing, purchasing techniques, value analysis and cost analysis.

MIS530 Sys Development/Implementation
Hours 3
Techniques and methodologies of project-level systems development and delivery are introduced including interface design, platform constraints, application architecture, testing, quality control, security, and performance evaluation.
Prerequisite(s): MIS 520

MIS535 Information Systems Consulting
Hours 3
Techniques and methodologies in client relationship management, proposal development, scope negotiation, component-based costing, knowledge management, software module and deliverable integration, systems deployment, and change management.
Prerequisite(s): MIS 520 and MIS 525
Prerequisite(s) with concurrency: MIS 530

MIS540 Dbase Design/Construction/Oper
Hours 3
Emphasizes commercial business application of relational DBMS. Topics include semantic data modeling, normalization, process triggers, enterprise integrated, ODBC, n-tier architecture, e-business application, and performance tuning.
Prerequisite(s): MIS 514

MIS541 Business Analytic Support Sys
Hours 3
System level concepts, methods, tools and techniques for model-driven, data-intensive decision making. Topics include: structuring data, information and knowledge in data warehouses and dat marts, and analytic procedures.
Prerequisite(s): ST 509 or ST 550 or ST 560 or MIS 540 or MIS 430 or MIS 440

MIS560 Enterprise Integration Methods
Hours 3
Introduction to techniques and methodologies of enterprise-level governance, architecture, analysis, design, procurement, integration and deployment.

MIS562 Enterprise Integrtn Developm
Hours 3
Application of techniques and methodologies to develop and deliver enterprise-level business information systems solutions.

MIS591 Independent Study Mgt Info Sys
Hours 3
No description available

MIS592 Internship In Mgt Info Systems
Hours 3
No description available

MIS597 Spec Top Mgt Info Systems
Hours 1-6
No description available

MIS598 Res In Management Info Systems
Hours 1-6
Open to students nearing completion of coursework for the master's degree. A supervised study and investigation of specific problems in management and management information systems.

MIS670 Mis Research Seminar I
Hours 3
The exploration of IS development and delivery research issues. Emphasis is placed on exploring the scientific method, theory building research, and methods of inquiry. Provides a framework for undertaking and evaluating MIS research.

MIS699 Dissertation Research
Hours 1-12
No description available

Operations Management Courses

OM500 MGT Science & Spreadsheet Mod
Hours 3
Management Science concepts and applications in decision making. Emphasis is on problem formulation and interpretation of results using spreadsheet-based modeling and solution procedures.

OM506 Business Spreadsheet Analytics
Hours 1-3
Operations research concepts and applications in decision making. Emphasis is on problem formulation and interpretation of results using computer-based solution procedures.
OM516 Operations Management
Hours 3
This course will address the important concepts and issues related to the design and management of business operations including manufacturing, distribution, logistics, transportation, and service operations. The course will demonstrate how certain quantitative methods can be applied to the analysis and solution of problems that arise in operations management.

OM517 Supply Chain Modeling & Analysis
Hours 3
This course provides a framework and quantitative methods for designing, managing, and analyzing the supply chain operations needed to support a firm’s business strategy. Students will study the structure of supply chain operations in terms of the following categories: facilities, information, inventory, and transportation. Students will analyze the relationship between supply chain structure and performance through case studies and examples that require students to develop analytical models to support their conclusions.
Prerequisite(s): OM 500 or OM 506

OM522 Operations Scheduling Problems
Hours 3
A broad investigation of a variety of scheduling activities in production, logistics or service environment are discussed. Typical topics include project scheduling, job-shop scheduling, routing related problems and manpower scheduling.
Prerequisite(s): OM 500 or OM 506

OM523 Inventory Management
Hours 3
Control techniques for the large multi-term inventories frequently associated with manufacturing supply and wholesale-retail operations are studied. The limitations and usefulness of models in actual practice are discussed. Coverage includes reorder-point procedures, single-period problems, and dynamic situations.
Prerequisite(s): ST 509 or ST 550 or ST 560

OM524 Mfg Sched & Control Systems
Hours 3
An in-depth, analytical study of the systems used in manufacturing planning and control are covered. Alternative approaches used in practice (such as MRP and JIT) are studied.
Prerequisite(s): OM 500 or OM 506; and ST 509 or ST 550 or ST 560

OM525 Effective Quality Management
Hours 3
Provide participants with a broad understanding of philosophies and methods used to enhance organizational effectiveness in a wide range of organizational settings.

OM527 Purchasing and Sourcing
Hours 3
Course covers fundamental purchasing systems applications, supplier relations and evaluation, strategic planning in purchasing, purchasing techniques, value analysis and cost analysis.

OM540 Systems Simulation
Hours 3
A study of the management applications of stochastic and deterministic mathematical and computer models in systems design and analysis.
Prerequisite(s): ST 509 or ST 550 or ST 560

OM550 Process Mgmt & Improvement
Hours 3
No description available

OM592 Internship
Hours 3
No description available

OM596 Capstone Project
Hours 3
This course requires the student to apply his/her knowledge of the field of Operations Management to recognize and model operational problems and/or processes targeted for improvement. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem or process, describe the analysis performed, and organize this material effectively for both a written report and corresponding oral presentation.

OM597 Special Topics in OM
Hours 1-6
No description available

OM598 Research
Hours 1-6
Open to students nearing completion of coursework for the master’s degree. A supervised study and investigation of specific problems in management and operations management.

OM600 Linear Program: Theory & Appli
Hours 3
The theory and application of linear programming are rigorously studied. Software tools such as AMPL and OPL Studio for solving linear programs are introduced.

OM601 Stochastic Decision Models
Hours 3
Probabilistic models in the decision-making process are discussed. Attention is given to the assumptions, development, and administrative implications of dynamic programming, queuing analysis, and decision analysis.
Prerequisite(s): MATH 557

OM602 Nonlinear Modeling and Optimization
Hours 3
Theoretical and applied aspects of nonlinear modeling and optimization such as unconstrained and constrained optimization, duality, barrier and interior point methods, and large-scale optimization.
Prerequisite(s): OM 600
OM603 Integer Modeling and Optimization
Hours 3
Theoretical and applied aspects of integer and discrete modeling and optimization such as valid inequalities, transformations, branch and bound, column generation, and branch and cut.
Prerequisite(s): OM 600

OM620 Production Management Models
Hours 3
A quantitative study of models and procedures used in various decision problems addressed by production and operations managers is completed in this course. Mathematical modeling and optimization software packages are used in solving these models.
Prerequisite(s): OM 500

OM622 Theory of Production Scheduling
Hours 3
A rigorous mathematical treatment of various scheduling models and techniques are covered. Topics include performance measures, complexity theory, single machine sequencing, flowshop scheduling, the job-shop problem, and priority dispatching.
Prerequisite(s): OM 522

OM623 Inventory Theory
Hours 3
A rigorous, mathematical treatment of stochastic single- and multi-item inventory models is performed. A numerical analysis and software package is used to implement and analyze such models.
Prerequisite(s): OM 523 and ST 560; or ST 550

OM695 Operations Management Seminar
Hours 1
A learning environment designed to expose Ph.D. students to a wide array of issues and topics related to operations management research.

OM697 Special Topics
Hours 1-6
Special Topics.

OM699 Dissertation Research
Hours 1-12
No description available

Statistics Courses

ST509 Stat For Business Appl
Hours 3
A broad introduction to statistical and probabilistic methods useful for managerial decision making. Topics include graphical displays, numerical summaries, basic probability models, confidence intervals, hypothesis testing, and regression analysis.

ST521 Statistical Data Management
Hours 3
Introduction to the management of data using SAS. The collection and management of data from business or scientific research projects are emphasized.

ST522 Adv Statistical Data Mgt
Hours 3
This course provides students with insight and understanding into the advanced aspects of data management. Emphasis will be placed on computer techniques for the preparing and cleaning of data from scientific research projects as well as for business-oriented projects in order to conduct advanced level analyses. Techniques for detecting, quantifying, and correcting data quality will be covered.
Prerequisite(s): ST 521

ST531 Data Mining I
Hours 3
Data mining is the process of selecting, exploring, and modeling large amounts of data to uncover previously unknown patterns of data. Techniques for accomplishing these tasks in a business setting will be discussed.
Prerequisite(s): ST 550 or ST 560 or ST 509

ST532 Advanced Data Mining
Hours 3
A detailed study of data mining techniques including logistic regression, neural networks, decision trees, general classifier theory, and unsupervised learning methods. Mathematical details and computer techniques are examined. The SAS programming language and SAS's Enterprise Miner will be used to accomplish these tasks. Other packages may also be used.
Prerequisite(s): ST 531

ST550 Stat Methods In Res I
Hours 3
Development of fundamental concepts of organizing, exploring, and summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on methods and on selecting proper statistical techniques for analyzing real situations.

ST551 Stat Methods In Res II
Hours 3
Analysis of variance and design of experiments, including randomization, replication, and blocking; multiple comparisons; correlation; simple and multiple regression techniques including variable selection, detection of outliers, and model diagnostics. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on appropriate analysis of data in real situations.
Prerequisite(s): GES 400 or GES 500 or BER 540 or CHS 425 or CHS 525 or ST 450 or ST 550

ST552 Applied Regression Analy
Hours 3
Modeling issues for multiple linear regression are discussed in the context of data analysis. These include the use of residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques, weighted least squares and collinearity. The uses of multiple logistic regression are similarly discussed for dealing with binary-valued dependent variables.
Prerequisite(s): ST 450 or ST 550 or ST 560 or ST 509
ST553 Appld Multivariate Analy
Hours 3
Methods and business applications of multivariate analysis, discriminant analysis, canonical correlation, factor analysis, cluster analysis, and principal components.

ST554 Math Statistics I
Hours 3
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.

ST555 Math Statistics II
Hours 3
Theory of order statistics, point estimation, interval estimation, and hypothesis testing.
Prerequisite(s): ST 554

ST560 Statistical Methods
Hours 3
Statistical methods for summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables; and simple regression and one-way analysis of variance.

ST561 Applied Design Experiments
Hours 3
An introduction to the design and analysis of experiments. Topics include factorial, fractional factorial, block, incomplete block, and nested designs. Other methods discussed include Taguchi Methods, response surface methods, and analysis of covariance.
Prerequisite(s): GES 400 or GES 500 or BER 425 or CHS 525 or ST 509 or ST 550 or ST 560

ST575 Statistical Quality Control
Hours 3
Statistical methods useful in control and improvement of manufactured products, including statistical process control with variables and attribute control charts, and process improvement with designed experiments. Emphasis is placed on design, implementation, and interpretation of the techniques.
Prerequisite(s): ST 550 or ST 560 or ST 509

ST591 Independent Study
Hours 3
No description available

ST592 Internship
Hours 3
No description available

ST597 Special Topics
Hours 1-6
No description available

ST603 Advanced Inference
Hours 3
A continuation of ST 555, with emphasis on the general theory of estimation and hypothesis testing and large sample distribution theory.
Prerequisite(s): ST 555

ST610 Linear Models
Hours 3
Gauss-Markov Theorem, solution of linear systems of less than full rank, generalized inverse of matrices, distributions of quadratic forms, and theory for estimation and inference for the general linear model.

ST615 Theory Of Regression
Hours 3
Theory of the general linear regression models and inference procedures, variable selection procedures, and alternate estimation methods including principal components regression, robust regression methods, ridge regression, and nonlinear regression.
Prerequisite(s): ST 610

ST635 Nonparametric Statistics
Hours 3
Theory and applications of various nonparametric statistical methods are covered for one-sample, two-sample, and multi-sample problems. Goodness of fit techniques such as Chi-square and the kolmogorov-Smirnov test are covered along with graphical analysis based on P-P and Q-Q plots. Computer software such as MINITAB, SAS, and STATXACT are used.

ST640 Statistical Computing
Hours 3
Topics include a survey of current statistical software, numerical methods for statistical computations, nonlinear optimization, statistical simulation, and recent advances in computer-intensive statistical methods.

ST697 Special Topics
Hours 1-6
Special topics in statistics.

ST698 Research In Statistics
Hours 1-6
Open only to graduate students nearing completion of coursework. Independent study and investigation of specific problems for advanced students of statistics.

ST699 Dissertation Research
Hours 1-12
No description available

Faculty
Head
Dr. John Mittenthal

Applied Statistics, MS

The program described below leads to the MS degree in applied statistics. It provides a broad yet thorough training in the methodology and theory of statistics, as well as an appreciation for the application of statistics in a variety of disciplines. For more detailed information and
recommendations, please visit https://culverhouse.ua.edu/graduate-programs/master-of-science-in-applied-statistics/.
See the Admission Criteria section of this catalog for more information.

**Admission Requirements**

The candidate for admission to applied statistics is normally expected to have completed courses in mathematics equivalent to three semesters of undergraduate calculus and to have a working knowledge of computer programming and linear or matrix algebra. The Graduate Record Examination (GRE) or the Graduate Management Aptitude Test (GMAT) is required of all applicants.

**Degree Requirements**

The M.S. degree in Applied Statistics requires 30 hours, half of which are track specific. There are two different tracks within this degree. These include: Statistics and Analytics. There are five required courses common to both tracks of study.

The electives may be earned in additional coursework with the approval of a faculty advisor. The program of related courses may vary from student to student and depends on the student’s interests and academic background. When most of the coursework is completed, the student must pass a written comprehensive examination OR a professional exam such as the Actuarial P Exam, SAS Predictive Modeler Exam, or the ASQ Certified Quality Engineer Exam.

The following are required courses common to all tracks:

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<tr>
<th>Course</th>
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<tr>
<td>ST 552</td>
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<td>ST 553</td>
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<td>ST 555</td>
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<td>ST 560</td>
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**Track I: Statistics**

<table>
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<tr>
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<th>Hours</th>
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<tr>
<td>ST 561</td>
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<td>12 hours of approved</td>
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**Track II: Analytics**

<table>
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<th>Course</th>
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<td>ST 521</td>
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<tr>
<td>ST 522</td>
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<td>ST 530</td>
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<tr>
<td>ST 532</td>
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</tr>
<tr>
<td>Approved elective</td>
<td>3</td>
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**Master’s Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an
official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with
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Application

All students, both international and domestic, with relevant preparation in calculus, linear algebra, and statistics are welcome to apply. Prospective students without an MS degree in statistics or without proper preparation at the similar level are required to apply to our Master of Science program. We prefer that students begin their program in the fall semester. Application deadlines generally follow those of the Graduate School. Application materials must be submitted by January 15 for consideration for fall enrollment. Include two letters of recommendation from the most recent institution attended along with the transcripts. It is highly recommended that students apply early in order to be considered for the graduate student financial support.

Minimum Standards for Regular Admission
An applicant whose credentials meet both of the following minimum requirements may be considered for regular admission:

GPA Requirement
The applicant must have a GPA, based on a 4.0 system, of at least 3.0 overall, at least 3.0 for the last 60 semester hours in a degree program, or at least 3.0 for a completed graduate degree program.

Entrance Exam Requirement
The GMAT is preferred, but students may choose to take either the GMAT or the GRE. GMAT: The minimum acceptable score is 650. GRE: The required minimum acceptable score is 310, including at least 150 on the verbal reasoning part and a writing assessment score of 4.0.

Language Requirement: All students whose first language is not English must submit an official TOEFL (Test of English as a Foreign Language) or an IBMT score. The minimum acceptable scores are 575 and 90, for TOEFL and IBT, respectively. The language requirement may be waived for students with a U.S. degree. In addition, student communication skills and preparation will be assessed in a short interview with the faculty.

Conditional Admission
An applicant whose credentials do not meet the requirements for regular admission may be considered for conditional admission if the applicant has a GPA of at least 2.5 overall and an acceptable score on the appropriate entrance examination. An applicant may be considered for conditional admission if the applicant meets either the GPA requirement for regular admission (GPA of 3.0 or higher) or the entrance examination score requirement for regular admission. These are minimum requirements.

Financial Support
Financial support is available on a highly competitive basis. A typical teaching assistantship provides a full tuition waiver and a $15,000 stipend for 9 months and assumes a weekly 20-hour teaching/recitation load. Additional summer support may be available for qualified candidates. Support may also be available at centers around the campus for statistical consultations.

Overview

Students typically take about four years to obtain a Ph.D. degree in Applied Statistics. Students are required to take 48 credit hours of coursework and 24 dissertation hours. During the summer months, students are expected to complete an independent research project and present obtained results as a report or a short paper. The interdisciplinary field coursework requirement can be fulfilled by taking 12 out of the 48 required hours of coursework in a maximum of two fields from a list of approved courses in mathematics, computer science, management science, industrial engineering, finance, and some other areas.
Qualifying Exam

At the end of the first academic year, Ph.D. students are required to take a written qualifying examination. The exam is usually administered in early May and the typical course coverage includes ST 552 Applied Regression Analy, ST 553 Appld Multivariate Analy, ST 554 Math Statistics I, ST 555 Math Statistics II, ST 560 Statistical Methods, and ST 561 Applied Design Expermnts.

Comprehensive Exam

Within one year after passing the qualifying exam, Ph. D. students are required to take a written comprehensive exam. The exam covers all courses included in the qualifying exam as well as courses taken afterwards, during the second year of studies. Typical coursework in the second year includes ST 575 Statisti Quality Control, ST 603 Advanced Inference, ST 610 Linear Models, ST 615 Theory Of Regression, ST 635 Nonparametric Statistics, and ST 640 Statistical Computing. The comprehensive exam is usually administered in early May.

Dissertation

By the end of the second year of studies, Ph.D. students are expected to form a dissertation committee including choosing a dissertation adviser. They must identify a topic and successfully defend a written research proposal. The research proposal defense should typically take place at the beginning of the third year of studies.

Writing a dissertation is the final test of the development of research skills. It requires a deep understanding of the relevant literature and methodology as well as the ability to think and work independently. A dissertation must be some original contributions to the literature. A Ph.D. candidate is required to defend, at the final oral examination, his/her dissertation, a written document acceptable to the dissertation committee and to the Graduate School. The defense usually takes place at the end of the fourth year. Before graduation, Ph.D. candidates are required to have papers submitted to peer-reviewed journals and make presentations at seminars and conferences.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.
Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval.
Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**
Only under compelling circumstances beyond the student’s control and after a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above), the Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition, the student:
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after:

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee
and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

## Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the “completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
• Computer Science
• Economics
• Education (all departments)
• Electrical and Computer Engineering
• Finance
• Geological Sciences
• Health Education and Promotion
• Management
• Management Science
• Marketing
• Mechanical Engineering
• Metallurgical and Materials Engineering
• Physics
• Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

• In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
• connecting language to bridge each study to the next; and
• a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Operations Management, MS
Operations management focuses on the analysis, design, and management of the operations that produce and deliver goods and services. It applies structured, quantitative techniques to analyze and design business operations and to support effective business decision making. Operations management helps evaluate and select actions based on information, process analysis, and quantitative modeling. There are tremendous opportunities for the effective application of these tools, techniques, and methods in a wide range of business operations including service operations, manufacturing, distribution, transportation, logistics, supply chain management, revenue management, quality management, finance, human resources, information systems, marketing, and strategic planning. Operations management can be effectively applied to virtually every component of an organization. The OM master’s degree program features three tracks—operations management, enterprise integration, and decision analytics.

See the Admission Criteria section of this catalog for more information.
Degree Requirements

Focused Area of Study I: Operations Management
Entering students should have strong quantitative skills and good written and oral communication skills. The program consists of 30 hours of coursework which students can complete in 18 to 24 months starting in the fall semester. All students are expected to complete the program within 24 months. No thesis is required. The focused area of study in operations management (OM) is designed to prepare students for the practice of operations management. The program is structured to provide instruction in materials management, scheduling and control, supply chain management, and quality control as well as topics in applied quantitative methods such as optimization, statistics, and simulation. The elective courses allow students to obtain additional instruction in other subjects such as project management, supply chain strategy, and quality management.

Required courses

Prerequisite: At least one semester of calculus equivalent to MATH 121 or higher.
OM 500 MGT Science & Spreadsheet Mod 3
OM 517 Supply Chain Modeling & Analys 3
OM 522 Production Scheduling Problems 3
OM 523 Inventory Management 3
OM 524 Mfg Sched & Control Systems 3
OM 540 Systems Simulation 3
OM 592 Internship 3
ST 560 Statistical Methods 3
ST 575 Statistical Quality Control 3
Electives (approved by the program coordinator) 3
Total Hours 30

More information is available at the Operations Management web site: https://culverhouse.ua.edu/graduate-programs/master-of-science-in-operations-management/.

Focused Area of Study II: Enterprise Integration
The enterprise integration systems (EI) focused area of study is designed to prepare students to enable business process improvement through information technology-based solutions. The EI area of study provides a depth of knowledge in project management, workflow design and information systems delivery through a combination of classroom and project experiences. The program reinforces leading project and process management concepts through experiential learning.

Students will gain experience in leading teams that analyze, design, construct, and deploy cross-functional systems, and integrate business data and process improvements into existing business enterprises.

<table>
<thead>
<tr>
<th>Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 516</td>
<td>MIS Practicum 1</td>
</tr>
<tr>
<td>MIS 525</td>
<td>Informatn Systems Project Mgt</td>
</tr>
<tr>
<td>MIS 527</td>
<td>Emerging Info Technologies Sem 1</td>
</tr>
<tr>
<td>MIS 535</td>
<td>Information Systems Consulting</td>
</tr>
<tr>
<td>MIS 560</td>
<td>Enterprise Integration Methods</td>
</tr>
<tr>
<td>MIS 562</td>
<td>Enterprise Integratin Developm 1</td>
</tr>
<tr>
<td>MIS 598</td>
<td>Res In Management Info Systems</td>
</tr>
<tr>
<td>OM 500</td>
<td>MGT Science &amp; Spreadsheet Mod</td>
</tr>
</tbody>
</table>

More information is available at the Management Information Systems web site.

Decision Analytics Track
The concept for this track is to offer an Operations Management master’s degree that combines the prescriptive modeling and analytical skills arising from the OM program with the data management and data mining skills from the SAS-UA Data Mining certification program offered in the Statistics program.

This track will consist of 10 courses: five from Operations Management, four from Statistics, and one from either Statistics or Management Information Systems. These 10 courses are organized as follows.

<table>
<thead>
<tr>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 560 Statistical Methods</td>
</tr>
<tr>
<td>ST 521 Statistical Data Management</td>
</tr>
<tr>
<td>ST 531 Data Mining I</td>
</tr>
<tr>
<td>ST 532 Advanced Data Mining</td>
</tr>
<tr>
<td>OM 500 MGT Science &amp; Spreadsheet Mod</td>
</tr>
<tr>
<td>OM 540 Systems Simulation</td>
</tr>
<tr>
<td>OM 596 Capstone Project</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit Hours Subtotal:</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two OM Electives (choose two from the following):</td>
<td>6</td>
</tr>
<tr>
<td>OM 517 Supply Chain Modeling &amp; Analys</td>
<td>3</td>
</tr>
<tr>
<td>OM 522 Production Scheduling Problems</td>
<td>3</td>
</tr>
<tr>
<td>OM 523 Inventory Management</td>
<td>3</td>
</tr>
<tr>
<td>OM 524 Mfg Sched &amp; Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>6</td>
</tr>
<tr>
<td>Once Restricted Elective (choose one from the following)</td>
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</tr>
<tr>
<td>ST 522 Adv Statistical Data Mgt</td>
<td>3</td>
</tr>
<tr>
<td>MIS 541 Business Analytic Support Sys</td>
<td>3</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
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</tr>
<tr>
<td>Total Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone
experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the
Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Operations Management, Ph.D.

Operations management focuses on the analysis, design, and management of the operations that produce and deliver goods and services. It applies structured, quantitative techniques to analyze and design business operations and to support effective business decision making. Operations management helps evaluate and select actions based on information, process analysis, and quantitative modeling. There are tremendous opportunities for the effective application of these tools, techniques, and methods in a wide range of business operations including service operations, manufacturing, distribution, transportation, logistics, supply chain management, revenue management, quality management, finance, human resources, information systems, marketing, and strategic planning. Operations management can be effectively applied to virtually every component of an organization.

See the Admission Criteria section of this catalog for more information.

Admission Requirements

The doctoral program generally admits two to four applicants each year, depending on the availability of financial support and the overall current enrollment. This policy ensures that each doctoral student will have adequate support from the faculty. Applicants are admitted in the fall semester, with occasional exceptions. While applications are accepted and evaluated year-round for program fit and financial support, applicants...
should submit all of their application materials by January 9 for best consideration for a select number of University-sponsored fellowships.

Doctoral applicants typically have a master’s degree and solid quantitative analytical skills. Applicants who do not possess a master’s degree, but are interested in the doctoral program, may also apply to the doctoral program to be evaluated for program fit. In some cases, an applicant may first be admitted to the OM master’s program as a precursor to doctoral studies.

Applicants should submit either GMAT (minimum 600) or GRE (minimum 1200-old format, minimum 312-new format) test scores. In addition, an applicant should have a GPA of at least 3.00 in all previous relevant degree programs. International students, whose native language is not English, should have at least a 550 written, 213 computer, or 79 internet-based score on the TOEFL exam.

Applicants should apply to the doctoral program through The University of Alabama Graduate School application website (http://graduate.ua.edu/prospects/application/). In addition to test scores, applicants should submit their academic transcripts, a statement of purpose, and three letters of recommendation. Be sure the person writing your letter includes the program for which you are applying and your full legal name.

Program Requirements
Students admitted to the program must complete 48 course hours and 24 dissertation hours to fulfill graduation requirements. In addition to curriculum hours, students must pass a two-stage qualifying exam.

Qualifying Exams
The qualifying exam is comprised of a written portion and a research-based portion. The written exam measures the student’s competency to review, analyze and propose solutions to questions typically drawn from the coursework in the first year. The research-based exam measures the student’s ability to review, analyze and conduct doctoral-level research and culminates with a research presentation by the student.

Doctoral Degrees
The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.
Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence instruction or for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval.
Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the proposed research. The student formally presents the written proposal to the dissertation committee
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School. A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours–Other Policies and Regulatory Bodies” on page 3 of this policy.

1. The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
• Computer Science
• Economics
• Education (all departments)
• Electrical and Computer Engineering
• Finance
• Geological Sciences
• Health Education and Promotion
• Management
• Management Science
• Marketing
• Mechanical Engineering
• Metallurgical and Materials Engineering
• Physics
• Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

• In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
• connecting language to bridge each study to the next; and
• a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Management
• Majors
  • Management (MA) (p. 321)
  • Management (PhD) (p. 323)

Management

MGT512 Management Presentations
Hours 3

Instruction and practice of information presentation in a business environment. Topics include conference room presentations, media briefings, team presentations, television interviews and audiovisual development.

MGT517 Leadership & Ethics
Hours 3

This course is an overview of leadership theory and models including discussions of ethical issues that corporate decision makers face.
MGT520 Change Management
Hours 3
The major objective of the course is to introduce students to the most recent thinking about strategic change, its drivers, and the techniques that are currently used for its management.

MGT522 Leadership Communication
Hours 3
Analysis of the role of communication in effective leadership for all management situations.

MGT531 Employee Recruitment, Selection, and Placement
Hours 3
A course designed to acquaint the student with a scientific approach to the selection, training, and placement of employees. Validation of selection practices and evaluation of training programs are emphasized.

MGT537 Strategic Human Resources Management
Hours 3
An analysis of methods and techniques used in the management of human resources.

MGT538 Workforce Planning
Hours 3
An analysis of the internal and external factors impacting an organization's ability to implement its mission through its workforce.

MGT539 Workforce Analytics
Hours 3
An analysis of the application of advanced data analytic tools to help address human resources concerns.
Prerequisite(s): ST 550 or ST 560, ST 521, ST 531

MGT542 Management Communication
Hours 3
Methodology for understanding both written and oral presentations. Students develop a language to use to manage written and oral verbal skills in specific business environments.

MGT552 Project Management Communication
Hours 3
Demonstrate communication effectiveness in a business context by completing a team project for a client, using written, oral, visual and interpersonal skills.

MGT582 New Venture Development
Hours 3
This course provides an opportunity to develop a business plan for a new venture or for expansion of an existing company. Students are expected to acquire skills in evaluating business ventures; to learn alternative financing sources; to develop ideas for differentiating products; and to develop an understanding of what is required to harvest the profits of a growing business.

MGT586 Small Business Consulting
Hours 3
This course is designed to offer education and training in the art of management consulting as it applies to smaller firms. The overall purpose of the course is the acquisition of knowledge and skills that will enable students to provide management advice to entrepreneurs and businesspersons to improve the performance of smaller organizations.

MGT591 Independent Study
Hours 1-6
Open to all graduate students on an elective basis. This course offers students an opportunity to pursue a course of study that they design according to their own interests. Students may also work on a faculty-directed research project and receive credit.

MGT592 Internship In Human Resources Management
Hours 3
Open to graduate students with the approval of the chairperson of the human resources management program. Graduate students receive on-the-job experience in human resources management in actual organizational settings, under the joint guidance of the cooperating organizational officials and faculty members.

MGT596 Capstone Project
Hours 1-3
This course requires the student to apply his/her knowledge of the field of Management to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

MGT598 Research In Management
Hours 3
A supervised study of specific issues and problems in management. The course is open to students in their final semester of coursework leading to the completion of a master's degree in management.

MGT599 Thesis Research
Hours 1-6
Thesis Research.

MGT610 Professional Development I
Hours 1
Provides doctoral students with an introduction to the academic community.

MGT611 Professional Development II
Hours 1
Provides doctoral students with an introduction to the academic community.

MGT612 Professional Development III
Hours 1
Provides doctoral students with an introduction to the academic community.

MGT613 Professional Development IV
Hours 1
Provides doctoral students with an introduction to the academic community.

MGT620 Organizational Behavior
Hours 3
A course designed to develop thorough understanding of individual behavior within formal organizations. Consideration is given to a number of important behavioral processes, including learning, perception, attitudinal structuring, conflict, motivation, and social reinforcement. Attention is devoted to the individual's effect on the organization and the way behavior affects the achievement of organizational goals.
MGT621 Organ Behav Group Perf  
Hours 3  
A study of human interaction and interpersonal behavior within working relationships. Emphasis is given to findings of the behavioral sciences as related to management problems. Theoretical and empirical approaches to issues such as communication, socialization, and role theory are presented.

MGT622 Current Topics in Human Resources Management  
Hours 3  
A course that gives special attention to the human aspects of problems that arise in technical, social, and organizational arenas faced with the need to change. The course includes detailed analyses of organizations as systems and of organizational leadership, change, and development.

MGT623 Contemporary Issues in Organizational Theory  
Hours 3  
This course deals with the definition and grouping of work units, the relationships between work units, and the assignment of decision-making authority to units within a contingency framework. Special emphasis is placed on the influence of the external environment on the structure and design of the organization.

MGT625 Foundations of Strategic Management  
Hours 3  
This seminar provides students with the theoretical foundation necessary to conduct empirical research in strategic management through the study of seminal works and current literature.

MGT690 Research Methods I  
Hours 3  
The purpose of this class is to build skills in the design, conduct and evaluation of research. Students are introduced to the basics of designing studies to test hypotheses and research.

MGT691 Research Methods II  
Hours 3  
Research Methods II.

MGT692 Scholarly Communication  
Hours 3  
Students improve their ability to communicate with peers about research through instruction in the argument structure, organization, style, delivery, and mechanics of scholarly genres.  
Prerequisite(s): admission to a doctoral program

MGT698 Research in Management  
Hours 3  
A supervised study and investigation of specific problems in management. Open to students nearing the completion of coursework for the PhD.

MGT699 Dissertation Research  
Hours 1-15  
Dissertation Research.

General Business Admin

GBA515 Effective Negotiations  
Hours 3  
This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.

GBA525 Business Policy  
Hours 3  
An integrative study of the manager's role as chief strategy maker and chief strategy implementer, using case analysis and management simulation techniques.

GBA526 Competitive Strategy  
Hours 3  
Examines conceptual tools for the in-depth analysis of industries and competitors; how to build and defend competitive advantages and how to formulate a successful competitive strategy. Usually offered spring semester.

GBA527 Strategy Implementation  
Hours 3  
An examination of the tasks of strategic leadership and the action alternatives for matching internal organizational conditions to the requirements of strategy execution. Usually offered spring semester.

GBA571 STEM Business Honors VII  
UH  
Hours 1.5  
This course is the seventh in a series of eight STEM Business Honors courses that students take in the STEM Path to the MBA. It is intended to be taken in the fall semester of the students' senior year. It will focus on a year-long (two semester) project.  
Prerequisite(s): GBA 371 and GBA 372  
University Honors

GBA572 STEM Business Honors VIII  
Hours 1.5  
This course is the last in a series of eight STEM Business Honors courses that students take in the STEM Path to the MBA. It is intended to be taken in the spring semester of the students' senior year. It will focus on a year-long (two semester) project.  
Prerequisite(s): GBA 371, GBA 372, and GBA 571

GBA591 Independent Study  
Hours 1-3  
Open to all graduate students on an elective basis. This course offers students an opportunity to pursue a course of study that they design according to their own interests. Students may also work on a faculty-directed research project and receive credit.

GBA592 Managerial Internship  
Hours 3  
Open to all graduate students on an elective basis. Through the cooperation of participating organizations, students are exposed to actual management situations and are given an opportunity to apply classroom knowledge to practical decision problems.
Students in this program will learn the complexities of managing businesses in a global arena, including the challenge of managing in a culturally diverse environment. Graduates of this program will understand the degree to which globalization has changed the way management is practiced in today’s society. In addition, graduates will have a broad knowledge of subjects that are key to effective global management, including but not limited to: managerial economics, managerial finance, accounting for global management, economics for global management, international marketing, global leadership and ethics, managerial statistics, and global business.

This flexible, online program is designed for supervisors, administrators, coordinators, managers, military personnel, and others who seek to advance their awareness of the impact of global issues in the workplace or who have developed the need for more advanced management skills in their current positions. The program is designed for students who do not have substantial prior education in business. All courses are offered online. The program consists of 30 hours of coursework, which students can complete in 18-24 months. A thesis is not required.

Details about program requirements are available on the Manderson Graduate School of Business website.

### Degree Requirements
Students admitted to the MA program in management complete a minimum of 30 hours of approved coursework beyond the requirements for an undergraduate degree.

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<td>OM 525 Effective Quality Management</td>
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<td>ST 560 Statistical Methods</td>
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<td>EC 500 Managerial Economics</td>
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<td>IBA 550 Global Business</td>
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<td>IBA 555 Global Market Management</td>
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<td>MGT 517 Leadership &amp; Ethics</td>
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<td>GBA 525 Business Policy (Global Capstone Course)</td>
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**Credit Hours Subtotal:** 27

### Electives
Select one of the following:

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<td>HCM 570 Introduction to Health Systems</td>
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<td>ST 575 Statistl Quality Control</td>
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<td>IBA 560 Adv. Import/Export Strategy</td>
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<td>MGT 537 Strategic Human Resources Management</td>
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<td>MGT 582 New Venture Development</td>
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<td>OM 500 MGT Science &amp; Spreadsheet Mod</td>
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### Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

#### Program Requirements
Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a...
minimum of 6 additional hours of thesis research hours, for a total of 30

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.
A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Management, Ph.D.

The Doctor of Philosophy degree is awarded for scholarly attainment and represents the highest degree in business administration that the University may bestow upon a student. Doctoral programs in business are designed principally for those who wish to prepare for careers in university teaching or for research positions in business and government.

The faculty of the Manderson Graduate School of Business offer the PhD degree in seven business fields: accounting, applied statistics, economics, finance, management, operations management, and marketing. The doctoral program in operations management offers an interdisciplinary concentration in management information systems.

Admission Requirements

Admission to doctoral programs in business is open to qualified individuals who hold undergraduate and/or graduate degrees from accredited colleges and universities. Individuals seeking admission to a doctoral program should follow the application procedure established by the Graduate School of The University of Alabama. Applications for
admission are carefully evaluated by selected members of the graduate faculty of the specific field to which the student is seeking admission.

See the Admission Criteria section of this catalog for more information.

**Student program committee.** For registration for the first semester or summer session in residence, each student will be advised by the graduate coordinator or department head of the major field. The graduate coordinator guides the student in course selection and counsels the student regarding other aspects of the program.

**Plan of Study.** The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations. An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Scholastic requirements.** If a student’s cumulative grade average falls below "B," or if the student earns a "D" or "F" in a graduate course, the student may be dismissed from the program.

**Residency requirements.** The minimum period (following the bachelor’s degree) for earning the PhD will vary dependent on the discipline. The program is full-time and a student is expected to maintain continuous residence at The University of Alabama. Additional information on doctoral residency is in the *Doctoral Degrees* (p. 23) section of this catalog.

**Major field requirements.** The student must choose a major field from one of the following programs: accountancy, applied statistics, economics, finance, management, marketing, or operations management. The major field may include cognate courses offered by divisions of the University outside or within the Manderson Graduate School of Business. The student must take at least seven graduate-level courses in the major field to prepare for the comprehensive examination.

**Quantitative methods requirements.** Each student is required to complete two courses in statistical methods equivalent to the content of ST 550 and ST 551, and two additional courses involving more advanced quantitative and/or statistical methods. These two elective courses are in addition to courses selected to satisfy the major or minor field requirements. A student who selects statistics as the major or minor field may satisfy the quantitative-methods requirement by completing at least four courses involving quantitative methods in addition to those selected to satisfy the minor field requirements in statistics.

**Language/research tool requirements.** There is no University-wide or College-wide language/research tool requirement for the PhD degree. Each program offering the degree may set its own requirements. In cases where the program has established a language/research tool requirement, candidates must complete the language/research tool requirement before taking the preliminary examination. Each student should contact the doctoral program coordinator in his or her major field for more information concerning language/research tool requirements.

**Comprehensive and preliminary examinations.** Each student is required to pass a comprehensive examination in the major field, and, if required, a comprehensive examination in the minor field(s). The examinations primarily aim to determine the student’s ability to show relationships among the various segments of knowledge within the major and minor fields of study. The written examination in the major field is scheduled for each student by the department head or program director. Examinations in the minor field (if required) may be taken at any time scheduled by the respective programs.

Some disciplines may also require a preliminary or qualifying examination in which the student must demonstrate competency in the major field in order to continue in the program. Such examinations will normally be administered after the first year in the program and will be scheduled by the department head or program coordinator.

In accordance with University policy, a student may attempt each examination no more than two times. However, each student should consult his or her program’s policies for the written comprehensive examination because programs may vary in approach and requirements.

**Dissertation committee.** The dissertation committee is appointed by the department head or the graduate coordinator in the student’s major field, in consultation with the faculty and the student. The dean of the Graduate School must approve the committee upon submission of the form for Appointment/Change of Doctoral Dissertation Committee. The committee consists of a minimum of five members of the graduate faculty; no fewer than two members must be from outside the student’s major field and at least one member must be from outside the student’s academic department. Each member of the committee must possess a terminal degree. Exceptions must be approved by the dean of the Culverhouse College of Business and by the dean of the Graduate School. The director of the dissertation is the chairperson of the committee.

**Admission to candidacy.** Students are certified by the dean of the Graduate School for Admission to Candidacy for the PhD degree after they have met the following requirements:

1. Completed the program of approved coursework
2. Demonstrated in comprehensive examinations their competence in (a) the major field and (b) each minor field requiring an examination
3. Satisfactorily fulfilled the language/research tool requirement, if any
4. Passed the preliminary examination, if required
5. Established an approved dissertation committee
6. Received approval of the dissertation proposal from the dissertation committee

**Dissertation requirements.** A dissertation showing power of independent research and literary skill must be prepared on a topic in the major field. The subject of the dissertation must be approved by the student’s dissertation committee. A student who completes the coursework but fails to complete the dissertation within five years after being admitted to candidacy will be required to retake the written examinations and the preliminary oral examination. All candidates are expected to register for dissertation supervision each semester and summer session until the dissertation is completed.

**Final oral examination.** When the dissertation has been completed the candidate will be given a final oral examination by the committee. This examination is primarily concerned with the research work of the candidate as embodied in the dissertation and the field in which the dissertation lies, but it may extend over the whole primary field of study. The final oral examination is governed by the rules of the Graduate School of The University of Alabama. All faculty members of the Manderson Graduate School of Business are invited to attend final oral examinations. The candidate will present a copy of the final draft of the
dissertation to each committee member at least two weeks in advance of the final oral examination.

Time limit for completion of the PhD. A student entering the PhD program must complete all requirements for the PhD degree within seven years of the date of admission in the graduate program. If a student is suspended from the PhD program for exceeding the time limits for completion of the program, the individual may petition the department chair and the Culverhouse College of Business PhD Programs Committee.

Extension of time and/or additional requirements for readmission to the program must be recommended to the Graduate School of The University of Alabama by the student's departmental graduate faculty and the dean of the college. A maximum one-semester extension may be granted in those rare instances in which the student presents documentation of compelling circumstances beyond the student's control that made it impossible to complete the degree within 21 semesters after admission. See Time Limits Extension Request (Doctoral Only) (p. 23) for the steps in the University's policy and conditions needed for the dean of the UA Graduate School to consider a one-semester extension.

Doctoral Degrees
The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCSON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented
unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits
All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request
Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date
in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must
be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog's section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School's homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student's final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the <em>completed</em> electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the &quot;University Academic Calendar&quot;)</td>
<td>0</td>
</tr>
</tbody>
</table>

| After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (both dates published in the University Academic Calendar) | 1 |
| After 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (date published in the University Academic Calendar) | 3 |

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours–Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology
Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should consult the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Marketing
- Marketing (MS) (p. 331)
  - Specializations in Marketing Analytics and Digital and Social Media
- Marketing (Ph.D.) (p. 335)

MKT 300 Marketing or its equivalent is a prerequisite for all 400-level courses; MKT 518 Marketing Management & Decision Making or its equivalent is a prerequisite for all 500- and 600-level courses.

MKT 518 Marketing Management & Decision Making
Hours 3
An intensive investigation of the process of new product development, including its role in the organization, analysis of market opportunities, creative idea generation, concept screening, design, forecasting, manufacturing, and launch. Teaching emphasis is on processes, tools, and techniques. A group project provides real-world product development experience.

MKT 511 Supply Chain Management
Hours 3
MKT 511 is a graduate (master’s) level counterpart to MKT 411 Supply Chain Management. Its focus is on providing a managerial perspective of best practice supply chain management. The course encompasses the collaborative strategies and planning processes needed to build and manage supply chains for systemic effectiveness and efficiency. It will be offered coterminously with MKT 411 during each spring semester. The target students for MKT 511 are MBA’s with marketing concentrations and master of arts (MA) and master of science (MSC) students in marketing. Graduate students in other degree programs may also enroll as an elective for graduate credit.

Prerequisite(s): MKT 518
MKT518 Marketing Management & Decision Making
Hours 3
A combination of lectures and cases is used to examine and analyze the marketing process. Emphasis is on decision making: the refinement of skills needed to recognize and solve marketing problems, and to effectively communicate recommendations both within and without the organization. The following components of the marketing mix are examined: product management, pricing, promotion, personal selling, buyer behavior, marketing channels, distribution, and segmentation.

MKT522 Advanced Supply Chain Strategy
Hours 3
Supply Chain Strategies are key to firms developing a sustainable competitive advantage. This course addresses the changing and increasingly important role of supply chain management from a strategic standpoint. Topics include Distribution Strategy, Inventory & Information Strategy, Demand Management, Operations Integration, Outsourcing, Partnering & Customer Relationship Strategy, Redesign & Contingency Planning, Reverse Logistics, Strategic Sourcing, Technology and Sustainability. The main objective of the course is to teach the participants how to develop a comprehensive supply chain to support overall business objectives. The course is case based giving the student pragmatic training for their first career placement.

MKT530 Advanced Marketing Analysis
Hours 3
This course for Master of Science in Marketing and second-year MBA students concerns the generation of marketing research results to help make marketing decisions. The course is designed to complement and build on the skills acquired in Marketing 518, the Survey of Marketing course. The core of Marketing 530 is decision-relevant data; planning its acquisition; getting it from a variety of internal, secondary and primary sources; analyzing it; and using it as the basis of decisions. The course also provides students with marketing analytics-centered skills (ANOVA, regression, factor and cluster analysis). Knowledge developed in the courses can be applied in the fields of market management, product management and project management. This course also helps prepare students to successfully complete team-based projects (Marketing 581) in the spring semester.

MKT531 Services Marketing
Hours 3
An examination of how service firms achieve and maintain marketing excellence.

MKT537 Personal Selling
Hours 3
To understand the basic concepts and principles surrounding personal selling including the sales process and emerging advanced sales topics.

MKT540 Introduction to Digital and Social Media Marketing
Hours 3
This course will address the distinct needs of digital and social media in the area of marketing. Opportunities for application of these skills to real-world business situations will be given to students. The course covers theory along with the tactical elements of creating and branding digital and social media content for companies and organizations.

Prerequisite(s): Master’s

MKT542 Digital and Social Media Analytics
Hours 3
This course will give students experience and exposure to advertising analytics in digital and social media. Special focus will be placed on Google AdWords and Google Analytics – the premiere digital advertising and analytics program online at this time. Students will analyze current professional literature on digital and social media analytics and focus on return on investment of online advertising and analytics for businesses and organizations.

Prerequisite(s): Master’s

Prerequisite(s) with concurrency: Co-requisites MKT 540 or MKT 543

MKT543 Advanced Digital and Social Media Projects and Studies
Hours 3
This course will give students real world experience in using social media professionally. Students will work in teams on live social media projects with a professional organization while learning Return on Investment strategies and analytical skills.

Prerequisite(s): Masters, MKT 540

MKT591 Independent Study
Hours 1-6
This course allows students to work one-on-one with faculty on a topic mutually agreed on by the faculty and student.

MKT592 Internship
Hours 3
Students work for an organization in an approved business or public sector setting. The internship is administered through the Master of Science in Marketing program.

MKT594 Marketing Project Management
Hours 3
Introduce Master of Science in Marketing students (and other interested graduate students) to the concepts and use of project management techniques utilizing Project Management Institute (PMI) standards focusing on marketing-specific projects.

MKT595 Client-Based Marketing Consultant Projects
Hours 3
This course is devoted entirely to the completion of real-world marketing projects for specific organizational clients. Teams are created based on skills and interests as well as the needs of the clients. The scope of each project is determined by the needs of the client, but it typically is based in decision-making insights from marketing research and involves one or more of such marketing-oriented tasks as: market segmentation and target marketing activities associated with a proposed new product, service, or strategic initiative; the gathering and application of marketing research pertinent to an important GO/NO GO decision by the firm; gauging specific reaction from the potential customer market regarding a proposed new initiative by the client; evaluating the potential competitive advantage of a strategic or tactical move by the firm; creation of and implementation of a plan for research, promotion, launch, pricing, and/or distribution for some aspect of the firm’s business. This course is unique. It allows students to use the skills and knowledge that they have acquired in graduate marketing courses as well as build new skills in marketing analysis, project management, client relationship building/maintenance skills, communications, decision-making, and leadership.
MKT596 Capstone Project
Hours 1-3
This course requires the student to apply his/her knowledge of the field of Marketing to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

MKT597 Special Topics In Marketing
Hours 1-6
This course offers faculty a chance to present topics of interest to themselves and to marketing students.

MKT599 Thesis Research
Hours 1-6
A course designed to focus on student's independent research projects.

MKT613 Behavioral Theory & Qualitative Methodology
Hours 3
This course focuses on the use of qualitative methodology as a way to ground theory, in combination with a focus on the application of consumer psychological and behavioral topics in such contexts as services, retailing, shopping, and relationship marketing. Offered spring semester, every other year.

MKT674 Measurement & Structural Equation Modeling
Hours 3
A course that covers measurement theory and how it is applied in scientific research. Students learn to construct effective questionnaires, to develop psychometrically-sound measures of constructs, and to assess measure reliability and validity. Quantitative methods, including exploratory factor analysis, confirmatory factor analysis, and structural equation modeling, are emphasized. Offered fall semester.

MKT688 Survey of Marketing
Hours 3
This course surveys several marketing topics. These include some data analysis tools, such as discriminant analysis, cluster analysis, perceptual mapping, and conjoint analysis; an introduction to some substantive topics, such as segmentation, new product diffusion, supply chain management, and attitude-to-the-ad; plus a brief overview of some selected marketing modeling topics. Offered fall semester, every other year.

MKT690 Philosophy of Science
Hours 3
This course begins with an examination of theory and theory development. It then follows with a consideration of various methodological approaches, with a heavy focus on experimental design. Finally, throughout, substantive behavioral and marketing topics are considered in detail, including attitudes and persuasion, advertising and branding effects, judgment and decision making, and the role of affect and emotions. Offered fall semester, every other year.

MKT691 Graduate Seminar In Mkt
Hours 3
Through the reading of this course, we will explore in depth several specific areas that are informed by strategic marketing thought. We will not only trace the development of theory in marketing strategy, but chart several courses for future research.

MKT698 Research In Marketing
Hours 1-6
A course designed to focus on students’ independent research projects.

MKT699 Dissertation Research
Hours 1-12
Credit hours required to complete dissertation work.

International Business Administration (IBA) Courses

IBA550 Global Business
Hours 1-3
A seminar emphasizing the environmental factors affecting international business operations, and studying different economic, social, cultural, legal, and other environmental conditions and their influence on both the formulation and execution of business policy of firms engaged in multinational business.

IBA555 Global Market Management
Hours 3
The object of this course is to investigate the effects of cultural similarities and differences on marketing practices worldwide. Also examined are the effects of market idiosyncrasies on globally oriented products, promotion, pricing, and distribution strategies.

IBA560 Advanced Import/Export Strategy
Hours 3
This course will provide a detailed overview of marketing, management, and logistics issues relative to setting up and operating an import/export firm or engaging in these activities in an existing firm.

IBA596 Capstone Project
Hours 1-3
This course requires the student to apply his/her knowledge of the field of International Business Administration to recognize operational problems in the field. Further, the student must provide evidence of his/her abilities to communicate understanding of the problem, describe the analysis performed and organize this material effectively for both a written report and corresponding oral presentation.

IBA597 Special Topics: Independent Study
Hours 3
This course offers faculty a chance to present topics of interest to themselves and to students with interests in international business.

Faculty
Department Head
Kristy Reynolds

Marketing, MS

The Field of Marketing
Marketing is the field of business concerned with the identification and analysis of consumer and business market needs and the development and management of marketing programs to satisfy those needs. Marketers are responsible for market strategy, product development and management, development and execution of promotional programs, management of distribution systems, and pricing for targeted domestic and international market opportunities based on an understanding of
consumers generated by marketing research and analysis of primary and secondary market data.

**The University of Alabama offers a Master of Science degree in marketing (MS) with two specializations and two focused areas of study:**

**Digital and Social Media Marketing Specialization**

The Digital and Social Media Marketing specialization involves a deep dive into the new world of digital marketing, with an overview course in social media-based marketing strategy followed by courses in digital marketing analytics and advanced digital marketing. The world of digital and social media marketing is growing rapidly, with firms around the world scrambling to add digital components to their marketing strategies.

**Marketing Analytics Specialization**

The Marketing Analytics specialization involves a heavy curriculum in statistics and SAS programming emphasizing data analysis and data mining. Graduates with this specialization earn a SAS/Data Mining Certification and are prepared to sit for the SAS programming certificate. Marketing Analytics graduates are highly sought after by a wide variety of organizations because of their ability to work with “Big Data.”

In addition, several MS students per year continue their education in PhD programs at UA and other universities.

**Marketing Management Focused Area of Study**

The Marketing Management focused area of study allows for maximum flexibility in course selection and career planning. Graduates with a Marketing Management focused area of study pursue careers in project management, product management, sales, or research for consulting and research firms, banks, retail chains, and health care companies.

**Professional Sales Focused Area of Study**

A Professional Sales focused area of study appeals to many marketing and non-marketing undergraduates who wish to blend sales skills with the knowledge from their major field to serve a variety of industrial and service providers in their area of interest. Many graduates go on to careers in sales and sales management, where there is a shortage of qualified applicants for available jobs across a wide range of industries.

**Program Overview:**

The MS is designed to be completed in two semesters of full-time study (15 hours each) but students are welcome to take longer if they prefer. The program enrolls around 50-60 students per year, most of whom start in the fall. Students entering in the spring semester cannot graduate in two semesters due to prerequisites.

The degree consists of 30 credit hours of coursework (33 for Marketing Analytics), including six hours of Client-based Project credit. Students interested in the Marketing Analytics specialization must apply for summer admission in order to complete a graduate level Introduction to Statistics course unless such a course has already been completed.

**Requirements:**

Admission requirements include a minimum GPA of 3.0 and a minimum score of 550 on the GMAT or 300 on the GRE. The average GPA of recent acceptees has been approximately 3.5 and the average GMAT has been 620. Entrance requirements for the Marketing Analytics specialization include a 3.3 GPA, a "B" or higher in undergraduate calculus, and a 580 GMAT/308 GRE.

**Student Backgrounds:**

Our MS students include college seniors with majors in a variety of fields including business, liberal arts, engineering, science, and communications, as well as individuals with non-business graduate degrees and those currently working in marketing and other jobs.

See the Admission Criteria section of this catalog for more information.

Typical applicants will be:

- seniors in all business majors
- seniors with non-business majors
- persons with non-business graduate degrees seeking employment in marketing
- individuals currently working in the private or public sector

Prior study of business is not required. Students with liberal arts, engineering, science, communications, as well as business undergraduate backgrounds are encouraged to consider this program.

**The Accelerated Master's Program (AMP):**

The Accelerated Master’s Program (AMP) in Marketing (formerly the University Scholars Program) allows academically gifted undergraduate majors in Marketing or with a double major which includes Marketing to begin taking graduate courses after 90 hours of undergraduate study. This will in many cases allow them to complete both the BA and the MS degree in four years. Once admitted, an AMP student is approved to take up to 15 hours of graduate courses that will count towards both the bachelor’s and graduate degrees.

Students completing the MS program will

- earn a graduate business degree (Master of Science)
- enhance their employment opportunities and upward mobility through a program of advanced marketing coursework and hands-on project experience

The program is also appropriate for persons who wish to earn a master’s degree en route to a PhD in marketing.

**Faculty**

The marketing faculty at The University of Alabama is nationally recognized for high quality teaching, research, and service to the state and nation. Faculty members work closely with students as teachers, project and team mentors, and as resources for placement and career planning after as well as before graduation.

**Placement**

Placement of students is a priority. We have recent graduates in nearly every conceivable marketing position around the world. Graduates have careers in brand management for consumer product firms, in banking, in industrial and pharmaceutical marketing and sales, in automobile manufacturing, in marketing research, in supply chain management, in sports and entertainment marketing, in entrepreneurship, in the public sector, in marketing of non-profit organizations, and in academics.

**Degree Requirements**

Coursework in the Master of Science degree program in marketing is designed to provide students with:

- a solid understanding of contemporary marketing issues
- experience in advanced analytical and marketing research techniques necessary for sound marketing decisions

The MS program requires 30 hours of coursework (33 hours for the Marketing Analytics Focused Area of Study), with the expectation that the degree will be completed in two semesters.
Coursework varies by specialization:

### Marketing Management Focused Area of Study

**Fall Semester**
- IBA 555  Global Market Management  3
- MKT 595  Client-Based Mkt Consult Proj  3
- MKT 530  Advanced Marketing Analysis  3

Two courses from:
- MKT 540  Intro to Digital/Social Media  3
- MKT 537  Personal Selling  3
- MKT 438  Sales Management (*For Graduate Credit)  3
- ST 550  Stat Methods In Res I  3
- MGT 582  New Venture Development  3
- HES 560  Sports Business Management  3

Other 500-level courses with permission of Instructor and Advisor

**Spring Semester**
- MKT 596  Capstone Project  3
- Four Courses From:
  - MKT 542  Digital/Social Media Analytics  3
  - MKT 438  Sales Management (*For Graduate Credit)  3
  - MKT 510  Prod Design Marketing Strategy  3
  - MKT 531  Services Marketing  3
  - APR 592  Integrated Comm Strategy  3
  - HES 560  Sports Business Management  3
  - MKT 522  Advanced Supply Chain Strategy  3
- MKT 439  Key Account Management  3

(Other courses can be substituted with permission)

### Digital and Social Media Specialization

**Fall Semester**
- IBA 555  Global Market Management  3
- MKT 595  Client-Based Mkt Consult Proj  3
- MKT 530  Advanced Marketing Analysis  3
- MKT 540  Intro to Digital/Social Media  3

One Course From:
- MKT 537  Personal Selling  3
- MKT 438  Sales Management (*For Graduate Credit)  3
- ST 550  Stat Methods In Res I  3
- MGT 582  New Venture Development  3
- HES 560  Sports Business Management  3

Other 500-Level courses with permission of Instructor and Advisor

**Spring Semester**
- MKT 596  Capstone Project  1-3
- MKT 542  Digital/Social Media Analytics  3
- MKT 543  Adv Digital and Social Media  3

Three Courses From:
- MKT 438  Sales Management (*For Graduate Credit)  3
- MKT 439  Key Account Management  3
- MKT 510  Prod Design Marketing Strategy  3
- MKT 531  Services Marketing  3
- APR 592  Integrated Comm Strategy  3
- HES 560  Sports Business Management  3
- MKT 522  Advanced Supply Chain Strategy  3

### Professional Sales Focused Area of Study

**Fall Semester**
- IBA 555  Global Market Management  3
- MKT 595  Client-Based Mkt Consult Proj  3
- MKT 530  Advanced Marketing Analysis  3
- MKT 537  Personal Selling  3
- MKT 438  Sales Management (*For Graduate Credit)  3

**Spring Semester**
- MKT 596  Capstone Project  3
- MKT 439  Key Account Management (*For Graduate Credit)  3

Three Courses From:
- MKT 510  Prod Design Marketing Strategy  3
- MKT 531  Services Marketing  3
- APR 592  Integrated Comm Strategy  3
- HES 560  Sports Business Management  3
- MKT 522  Advanced Supply Chain Strategy  3
- MKT 439  Key Account Management (*For Graduate Credit)  3

(Other courses can be substituted with permission)

### Marketing Analytics Specialization

**Summer Session**
- ST 560  Statistical Methods  3

**Fall Semester**
- IBA 555  Global Market Management  3
- MKT 595  Client-Based Mkt Consult Proj  3
- MKT 530  Advanced Marketing Analysis  3
- ST 521  Statistical Data Management  3
- ST 531  Data Mining I  3

**Spring Semester**
- MKT 596  Capstone Project  3
- ST 522  Adv Statistical Data Mgt  3
- ST 532  Advanced Data Mining  3

Two Courses From the Marketing or IBA Curriculum

### Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

### Program Requirements

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a
minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

**Journal Format.**
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.
A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Marketing, Ph.D.**

The Doctor of Philosophy degree is awarded for scholarly attainment and represents the highest degree in business administration that the University may bestow upon a student. Doctoral programs in business are designed principally for those who wish to prepare for careers in university teaching or for research positions in business and government.

The faculty of the Manderson Graduate School of Business offer the PhD degree in seven business fields: accounting, applied statistics, economics, finance, management, operations management, and marketing. The doctoral program in operations management offers an interdisciplinary concentration in management information systems.

**Admission Requirements**

Admission to doctoral programs in business is open to qualified individuals who hold undergraduate and/or graduate degrees from accredited colleges and universities. Individuals seeking admission to a doctoral program should follow the application procedure established by the Graduate School of The University of Alabama. Applications for
admission are carefully evaluated by selected members of the graduate faculty of the specific field to which the student is seeking admission. See the Admission Criteria section of this catalog for more information.

**Student program committee.** For registration for the first semester or summer session in residence, each student will be advised by the graduate coordinator or department head of the major field. The graduate coordinator guides the student in course selection and counsels the student regarding other aspects of the program.

**Plan of Study.** The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctorate degree. Otherwise, a “hold” may be placed on future registrations. An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Scholastic requirements.** If a student’s cumulative grade average falls below “B,” or if the student earns a “D” or “F” in a graduate course, the student may be dismissed from the program.

**Residency requirements.** The minimum period (following the bachelor’s degree) for earning the PhD will vary dependent on the discipline. The program is full-time and a student is expected to maintain continuous residence at The University of Alabama. Additional information on doctoral residency is in the Doctoral Degrees (p. 23) section of this catalog.

**Major field requirements.** The student must choose a major field from one of the following programs: accountancy, applied statistics, economics, finance, management, marketing, or operations management. The major field may include cognate courses offered by divisions of the University outside or within the Manderson Graduate School of Business. The student must take at least seven graduate-level courses in the major field to prepare for the comprehensive examination.

**Minor field requirements.** One minor field of study must be selected from within the Manderson Graduate School of Business or in a discipline outside the School that is closely related to the student’s major field of study. To satisfy the minor-field requirement, the student must meet the standards set by the program area granting the minor. In general, this means that the student must demonstrate a thorough grasp of the philosophy, methodology, and literature dealing with the minor field. The student must take a minimum of four graduate courses to satisfy the minor-field requirement. Some minor fields require a written comprehensive examination. For applied statistics, the minor-field requirement is replaced by the interdisciplinary field courses.

**Quantitative methods requirements.** Each student is required to complete two courses in statistical methods equivalent to the content of ST 550 and ST 551, and two additional courses involving more advanced quantitative and/or statistical methods. These two elective courses are in addition to courses selected to satisfy the major or minor field requirements. A student who selects statistics as the major or minor field may satisfy the quantitative-methods requirement by completing at least four courses involving quantitative methods in addition to those selected to satisfy the minor field requirements in statistics.

**Language/research tool requirements.** There is no University-wide or College-wide language/research tool requirement for the PhD degree. Each program offering the degree may set its own requirements. In cases where the program has established a language/research tool requirement, candidates must complete the language/research tool requirement before taking the preliminary examination. Each student should contact the doctoral program coordinator in his or her major field for more information concerning language/research tool requirements.

**Comprehensive and preliminary examinations.** Each student is required to pass a comprehensive examination in the major field, and, if required, a comprehensive examination in the minor field(s). The examinations primarily aim to determine the student’s ability to show relationships among the various segments of knowledge within the major and minor fields of study. The written examination in the major field is scheduled for each student by the department head or program director. Examinations in the minor field (if required) may be taken at any time scheduled by the respective programs.

Some disciplines may also require a preliminary or qualifying examination in which the student must demonstrate competency in the major field in order to continue in the program. Such examinations will normally be administered after the first year in the program and will be scheduled by the department head or program coordinator.

In accordance with University policy, a student may attempt each examination no more than two times. However, each student should consult his or her program’s policies for the written comprehensive examination because programs may vary in approach and requirements.

**Dissertation committee.** The dissertation committee is appointed by the department head or the graduate coordinator in the student’s major field, in consultation with the faculty and the student. The dean of the Graduate School must approve the committee upon submission of the form for Appointment/Change of Doctoral Dissertation Committee. The committee consists of a minimum of five members of the graduate faculty; no fewer than two members must be from outside the student’s major field and at least one member must be from outside the student’s academic department. Each member of the committee must possess a terminal degree. Exceptions must be approved by the dean of the Culverhouse College of Business and by the dean of the Graduate School. The director of the dissertation is the chairperson of the committee.

Program areas may impose additional procedures for approval of dissertation proposals. The dissertation committee is responsible for admission of the student to candidacy, supervision of the dissertation, and administration of the final oral examination.

**Admission to candidacy.** Students are certified by the dean of the Graduate School for Admission to Candidacy for the PhD degree after they have met the following requirements:

1. Completed the program of approved coursework
2. Demonstrated in comprehensive examinations their competence in (a) the major field and (b) each minor field requiring an examination
3. Satisfactorily fulfilled the language/research tool requirement, if any
4. Passed the preliminary examination, if required
5. Established an approved dissertation committee
6. Received approval of the dissertation proposal from the dissertation committee

**Dissertation requirements.** A dissertation showing power of independent research and literary skill must be prepared on a topic in the major field. The subject of the dissertation must be approved by the student’s dissertation committee. A student who completes the coursework but fails to complete the dissertation within five years after being admitted to candidacy will be required to retake the written examinations and the preliminary oral examination. All candidates are expected to register for dissertation supervision each semester and summer session until the dissertation is completed.
Final oral examination. When the dissertation has been completed the candidate will be given a final oral examination by the committee. This examination is primarily concerned with the research work of the candidate as embodied in the dissertation and the field in which the dissertation lies, but it may extend over the whole primary field of study. The final oral examination is governed by the rules of the Graduate School of The University of Alabama. All faculty members of the Manderson Graduate School of Business are invited to attend final oral examinations. The candidate will present a copy of the final draft of the dissertation to each committee member at least two weeks in advance of the final oral examination.

Time limit for completion of the PhD. A student entering the PhD program must complete all requirements for the PhD degree within seven years of the date of admission in the graduate program. If a student is suspended from the PhD program for exceeding the time limits for completion of the program, the individual may petition the department chair and the Culverhouse College of Business PhD Programs Committee.

Extension of time and/or additional requirements for readmission to the program must be recommended to the Graduate School of The University of Alabama by the student’s departmental graduate faculty and the dean of the college. A maximum one-semester extension may be granted in those rare instances in which the student presents documentation of compelling circumstances beyond the student’s control that made it impossible to complete the degree within 21 semesters after admission.

See Time Limits Extension Request (Doctoral Only) (p. 23) for the steps in the University’s policy and conditions needed for the dean of the UA Graduate School to consider a one-semester extension.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.
Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time
limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.
Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the <em>completed</em> electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the ¹University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

¹ International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

² The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering

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340 Graduate Catalog
• Finance
• Geological Sciences
• Health Education and Promotion
• Management
• Management Science
• Marketing
• Mechanical Engineering
• Metallurgical and Materials Engineering
• Physics
• Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

• In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
• connecting language to bridge each study to the next; and
• a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

College of Communication and Information Sciences

Department of Advertising and Public Relations (p. 347)
Department of Communication Studies (p. 352)
Department of Journalism Creative Media (p. 358)
School of Library and Information Studies (p. 363)
Communication Information Sciences (CIS), Ph.D. (p. 374)

Program Administration

The graduate programs in the College of Communication and Information Sciences are administered by the associate dean for graduate studies, by various administrative divisions within the College, and by the Graduate School. The college has one PhD degree program (p. 374). It is an interdisciplinary program that draws on all subdivisions of the College and is administered by the associate dean for graduate studies and by the graduate studies committee. The Master of Arts degree programs are administered by the associate dean, by divisional or department heads, and by department program directors.

All curricula offered by the College of Communication and Information Sciences have been accredited by regional associations. The undergraduate programs in the College are accredited by the Accrediting Council on Education in Journalism and Mass Communication.
General Requirements for the MA Degree

In consultation with an advisor, the student selects a graduate major in one of the academic departments of the College. There are two options that students may choose for pursuing the Master of Arts degree.

Plan I, master’s thesis
The student’s curricular and research interests culminate in the completion of a traditional master’s thesis. Students must take a minimum of 30 hours of approved graduate courses, of which 6 are specifically for the thesis. See departmental sections below for required and recommended courses.

Plan II, nonthesis option
Students must take a minimum of 30 hours of approved graduate courses. See departmental sections below for the specific nature of this option and its requirements.

Regardless of the option selected, each student must satisfy the following requirements:

- MC 550 Research Methods or department-approved equivalent
- MC 551 Sem Communication Theory or department-approved equivalent
- Written comprehensive examination or equivalent, as specified by the student’s departmental committee
- Final oral examination or equivalent, as specified by the student’s departmental committee

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate
School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of
graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Admission Criteria
The Graduate School of The University of Alabama administers admissions for the entire University. The Graduate School’s website has detailed admission policies, an electronic application, and other useful information for those considering graduate studies at the University.

Graduate students in the College of Communication and Information Sciences must meet the admission criteria of the Graduate School (see Admission Criteria) of The University of Alabama. Specific graduate programs in the college may have additional admission criteria, as specified in departmental sections of this catalog.

See the Admission Criteria section of this catalog for more information.

Each applicant must submit test scores from either the Graduate Record Examination general test or the Miller Analogies Test in support of the application. The Department of Advertising and Public Relations does not accept the Miller Analogies Test.

Applications for the fall semester should be submitted to the Graduate School by April 1. Applications for the spring semester should be submitted by November 1.

Word-processing proficiency is required in all writing and editing courses offered in the Department of Advertising and Public Relations and the Department of Journalism and Creative Media.

Financial Aid
All divisions of the College of Communication and Information Sciences offer a limited number of graduate assistantships to qualified students. The assistantships are awarded on a competitive basis to individuals who can best aid the institution in achieving its research and instructional missions. Students interested in graduate assistantships should apply to the appropriate departments by November 1 for spring semester applications and by April 1 for fall semester applications. Some deadlines vary by departments, so be sure to check with specific department regarding their deadlines. February 15 is the recommended deadline for PhD program applicants who hope to be awarded assistantships, although applications are accepted through April

1. Other financial aid available from the University is described elsewhere in this catalog.

Educational Objectives
The educational objectives of these graduate programs are as follows:

Teaching
Provide students with the knowledge, skills, understanding, and diverse technologies to meet the changing informational and cultural needs of diverse populations and organizations. Foster leadership skills and abilities in all students, provide opportunities within the program for students with leadership potential to exercise their abilities, and encourage students as graduates to seek out and assume leadership roles. Improve and develop students’ critical and conceptual thinking skills.

Research and creative activity
Augment and advance knowledge through basic research and improve professional practice through systematic inquiry into its nature, standards, and principles.

Service
Apply the insights and knowledge gained through research and instruction in service to public- and private-sector organizations.

See the online Graduate Catalog for specific information on admission criteria and degree requirements.

See the Admission Criteria section of this catalog for more information.

CIS600 Prosem Communicatn Info Sci
Hours 1
The course is part of orientation for all students in the PhD program. It must be taken during the first semester of study. As an introduction to relevant research and teaching practices, this course allows students to hear presentations by faculty and advanced doctoral students.

CIS601 Proseminar In Pedagogy
Hours 1
This course is part of the orientation for all students in the Ph.D. program. It must be taken during the second semester of study. It introduces the students to teaching techniques in communication and information studies.

CIS602 Colloquium Comm Info Science
Hours 1
The course is part of the orientation for all students in the PhD program. It must be taken during the third semester of study. The course is designed to allow doctoral students to learn about research being conducted within the College and to make formal presentations of their own research.

CIS603 Quantitative Research Methods
Hours 3
The course provides detailed study of quantitative research methods appropriate to the various areas of study in communication and information sciences.

CIS604 Mass Communication Theory
Hours 3
This course is a survey of the foundational theories of mass communication and media processes and effects.
CIS605 Culturl Critc Rhetorcl Theory
Hours 3
This course offers a survey of foundational theories in cultural, critical, and rhetorical studies.

CIS606 Knowledge & Information Theory
Hours 3
This course offers a survey of theoretical developments in the study of knowledge and information.

CIS607 Theory Constructn Epistemolgy
Hours 3
This course provides detailed study of the philosophical foundations of theory construction and current issues in theories of the nature of knowledge.

CIS608 Qualitative Research Methods
Hours 3
This course is an introduction to qualitative research methods in communication, yet with a doctoral level of sophistication and expectations. The aim is to introduce students to all primary forms of qualitative methodologies from a social science perspective; however, each method or approach described could easily be the subject of a course itself.

CIS609 Humanistic Research Methods
Hours 3
Founded on a logical conceptualization of knowledge creation, this course surveys eight modes of knowing in the humanities: philological interpretation, phenomenological interpretation, explanatory history, narrative history, aesthetic/technical criticism, cultural criticism, theoretical analysis, and theoretical synthesis. Treatment of modes includes investigation of theories and examination of applications. The course is designed to support disciplinary research and publication by participants.

CIS610 Foundations of Doctoral Study in Communication & Information Sciences
Hours 3
Students develop familiarity with college graduate faculty members, their professional lives, teaching specialties, research interests, and service involvements. Students become familiar with the norms of doctoral life. Students develop their own unique approach to research, teaching, and service in the context of their area of expertise.

CIS620 Adv Matl Prog For Youth
Hours 3
Special topics in materials, programs, and services for children and young adults. May be taken more than once.

CIS621 Intercultural Perspective in Youth Literature
Hours 3
Addresses cultural stereotypes and issues surrounding cultural authenticity in children’s and young adult literature, and suggests how librarians / educators can help children use literature to make intercultural connections with youth from diverse cultural backgrounds. Provides opportunities to explore diverse perspectives and theories related to selecting, analyzing, and interpreting international and multicultural literature for youth.

CIS650 Seminar: Communication & Information Sciences
Hours 3
Topics vary. Course supports research in areas appropriate for advanced study and original research in communication and information sciences. Depending on the interests of participants and on the topic of the seminar, students may conduct research individually or may work together on research projects. May be repeated.

CIS652 Sem Culture Criti Rhetor Stdy
Hours 3
The examination of a wide range of mediated texts through the intersecting perspectives of cultural, critical and rhetorical analysis.

CIS653 Descriptive Bibliography
Hours 3
Examines the intellectual objectives served by descriptive bibliographies and introduces the methods and problems of bibliographical description of printed books of the hand- and machine-press periods. Emphasis is on the examination and historical analysis of books as physical objects. Primarily for students interested in the history of books, special collections, rare book cataloging, and humanities reference work.

CIS654 Print Culture And Society
Hours 3
Examines the book as a cultural artifact and explores the impact of print culture on communication and knowledge/information production in Europe and the United States. Topics include orality and literacy, reading, authorship, copyright, markets and distribution, and the future of books in a digital age.

CIS655 Book Artifact Materialty Text
Hours 3
Examines the book as a cultural artifact and explores the impact of print culture on communication and knowledge/information production in Europe and the United States. Topics include orality and literacy, reading, authorship, copyright, markets and distribution, and the future of books in a digital age.

CIS656 Book Artifact Materialty Text
Hours 3
Examines the book as a cultural artifact and explores the impact of print culture on communication and knowledge/information production in Europe and the United States. Topics include orality and literacy, reading, authorship, copyright, markets and distribution, and the future of books in a digital age.

CIS658 American Literary Small Press
Hours 3
Explores little magazine, small press and similar issues in publishing, and covers US publishing in this area from colonial times to the present.

CIS665 Seminar in Communication Message Analysis
Hours 3
Topics may vary. Study and analysis of the development and management of communication institutions and their place in society. May be repeated.
CIS667 Persuasive Communication
Hours 3
Study and analysis of the persuasive function of communication through theoretical and/or strategic approaches. May be repeated.

CIS669 Seminar in Visual Communication
Hours 3
Study and analysis of visual communication in its various forms, intended uses, and potential effects. May be repeated.

CIS671 Public Opinion
Hours 3
Study and analysis of the formation and expression of public opinion and its relation to communication. May be repeated.

CIS697 Directed Research
Hours 1-3
Original research not related to the dissertation, conducted under the direction of graduate faculty member.

CIS698 Independent Research
Hours 1-3
Study of a topic in librarianship under faculty direction. Not part of dissertation research.

CIS699 Dissertation Research
Hours 1-12
Dissertation Research.

MC501 Mass Media Law Regultn
Hours 3
A study of the laws affecting the media, decisions, and case histories that act as guides for the media. Independent readings and papers are required.

MC513 Communication/Diversity
Hours 3
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society.

MC517 Mass Communication and Public Opinion
Hours 3
Nature, development, formation, and distribution of politically relevant attitudes and opinions; role of leadership, persuasion, and communication in opinion-policy process. Emphasis on the role of the media in the formation of public opinion and on how the media are influenced in turn by public opinion.

Prerequisite(s): There are no specific course prerequisites, but graduate status or consent of instructor is required.

Prerequisite(s) with concurrency: None

MC550 Research Methods
Hours 3
A survey of qualitative and quantitative methods in communication research.

MC551 Sem Communication Theory
Hours 3
A study of the development of selected theories of communication as they pertain to interpersonal, public, and mass communication.

MC595 Special Topics
Hours 3
Special topics in mass communication theory and research. May be repeated.

Faculty
Associate Dean
William Evans

Professors
Cory Armstrong
Beth S. Bennett
Andrew C. Billings
Kimberly L. Bissell
Matthew D. Bunker
Jeremy G. Butler
Robert N. Gaines
William J. Gonzenbach
Karla K. Gower
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Margot O. Lamme
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Shuhua Zhou

Associate professors
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Laurie Bonnici
Glenda Cantrell
Heather J. Carmack
George L. Daniels
Anna Embree
Suzanne Horsley
Hyoungkoo Khang
Terry Kinney
Steven L. MacCall
Mary M. Meares
Carol Bishop Mills
Jamie C. Naidoo
Rachel A. Raimist
Christopher Roberts
Kristen J. Warner
Jeffrey Weddle
The University of Alabama 2018-2019

Assistant professors
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Jennifer Becker
Robin Boylorn
Dianne Bragg
Nancy Brinson
Adam Brooks
Kenon Brown
Michael Bruce
John Burgess
William Sim Butler
Chandra Clark
Nicholas Corrao
Darrin Griffin
Jameson Hayes
Jennifer Hoewe
Peter Jensen
Leah E. LeFebvre
Laura L. Lemon
Jessy Ohl
Elliot T. Panek
M. Scott Parrott
Cynthia C. Peacock
Joshua R. Pederson
Robert B. Riter
Ethan C. Stokes
Miriam E. Sweeney
Alyxandra Vesey
Steven Yates
Other faculty
Alexa Chilcutt

Department of Advertising and Public Relations

The Master of Arts in Advertising and Public Relations is designed for aspiring students who wish to gain advanced knowledge and expertise in creating and managing persuasive communication. We help motivated students transition from a tactical to a more strategic, managerial approach to advertising and public relations, while becoming ethical and globally competent thought leaders in their future careers.

Two plans are offered for the Master of Arts in advertising and public relations:

Plan I: a two-year, individualized plan that allows students to gain deeper expertise in a particular area of advertising and/or public relations

Plan II: a one-year, general plan that offers students basic expertise in advertising and public relations (this program will not be offered after the 2018-2019 academic year)

- Majors
  - Advertising and Public Relations (MA) (p. 348)

[object Object]

APR522 Media Strategy and Analytics
Hours 3

This course is designed to provide students with the knowledge and skills to use research to select appropriate media channels to communicate to stakeholders. Students will learn to create media briefings and plans for persuasive communication campaigns that include data-driven recommendations. Students will also learn how to retrieve, assess and visualize social media and web analytics.

Prerequisite(s): Completion of APR 550, APR 551 and APR 583

APR523 Media Relations
Hours 3

This course is designed to provide students with the knowledge and skills to manage relationships with media gatekeepers in order to facilitate communication through their channels, including media selection, build relationships with gatekeepers, and interacting with the media through interviews and press conferences. Students will also learn how to track and analyze media coverage and sentiment using online tools.

APR524 Reputation Communication Strategy
Hours 3

This course is designed to introduce students to the practice of managing integrated communication to build, maintain and repair an organization’s reputation. Emphasis will be placed on issues and risk management, corporate social responsibility, cause-related marketing, advocacy advertising and crisis communication.

Prerequisite(s): Completion of APR 550, APR 551 and APR 583

APR525 Brand Communication Strategy
Hours 3

This course is designed to provide students with an introduction to branding from a marketing perspective, and how integrated communication is used to communicate a brand’s identity to build, manage and protect brand equity. Emphasis will be placed on brand assessment, brand positioning, audience selection and the marketing promotional mix.

Prerequisite(s): Completion of APR 550, APR 551 and APR 583

APR550 Analysis and Insights I
Hours 3

This is the first part of a two-semester course designed to provide students with the knowledge and skills necessary to plan and analyze secondary, qualitative and quantitative data to draw meaningful academic and/or industry conclusions, monitor and measure outcomes of communication efforts, and present and visualize data proficiently. This course will include an introduction to social and digital media analytics.
APR551 Foundations of Integrated Communication
Hours 3
This course is designed to provide students with an understanding of the fundamental theories and concepts that drive the research and practice of advertising and public relations and how to apply those theories and concepts for academic and industry inquiry.

APR570 Industry Outlook and Professional Development
Hours 3
This course is designed to acquaint students with the landscape of the advertising, public relations and integrated communication industry. Students will prepare for the job and internship search by creating resumes, CVs, cover letters and portfolios that will make them viable on the job market. Students will also discuss networking, building relationships with stakeholders and clients, creating presentation-ready documents using Microsoft Office and Adobe Creative Suite, and presentation and pitching skills.

APR572 Persuasive Communication
Hours 3
The practice of creating, writing, editing, and producing persuasive communication for advertising and public relations. Writing skills are exercised extensively in this course.

APR582 APR Management
Hours 3
Problems and decision-making processes involved in the management of advertising and public relations programs and organizations.

APR583 Analysis and Insights II
Hours 3
This course is the second part of a two semester course designed to provide students with the knowledge and skills necessary to plan and analyze secondary, qualitative and quantitative data to draw meaningful academic and/or industry conclusions, monitor and measure outcomes of communication efforts, and present and visualize data proficiently. This course includes an introduction to social and digital media analytics.
Prerequisite(s): APR 550

APR589 Special Topics
Hours 3
The practice of developing ideas and creative strategies for professional evaluations about design and its application. Each student prepares a portfolio.

APR592 Integrated Communication Strategy
Hours 3
This course is designed to provide students with skills and concepts to communicate to stakeholders effectively using a variety of media channels (mass, controlled, digital, social, interpersonal) and focusing on communication as an art and a science. Emphasis is placed on assessing research to guide strategic decisions and on evaluating writing for persuasive content across various media channels.
Prerequisite(s): APR 551

APR593 Global Communication Management
Hours 3
This industry-driven course is designed to provide students with the skills necessary to lead persuasive communication departments and agencies effectively on an international scale. Emphasis is placed on understanding how to use critical thinking and problem solving to make ethical, cultural, financial and personnel decisions that affect multi-market organizations.
Prerequisite(s): Completion of APR 550, APR 551, APR 570, APR 583 and APR 592

APR596 Independent Study Resrch
Hours 1-3
No description available

APR597 Research for Non-Thesis Project
Hours 3
Research to develop an integrated communication campaign for a specific organization. This is the preparation stage for the major case study prepared by the student in APR 598.

APR598 Non-Thesis Project
Hours 3
Development and presentation of an integrated communication plan and proposal for a specific organization. Integration of theory, concepts, and techniques in a complete communication program.

APR599 Thesis Research
Hours 1-12
No description available

Faculty
Chair
Joseph Phelps
Professor
Joseph Phelps

Advertising and Public Relations, MA

The Master of Arts in Advertising and Public Relations is designed for aspiring students who wish to gain advanced knowledge and expertise in creating and managing persuasive communication. We help motivated students transition from a tactical to a more strategic, managerial approach to advertising and public relations, while becoming ethical and globally competent thought leaders in their future careers.

Two plans are offered for the Master of Arts in Advertising and Public Relations:

Plan I: a two-year, individualized plan that allows students to gain deeper expertise in a particular area of advertising and/or public relations

Plan II: a one-year, general plan that offers students basic expertise in advertising and public relations (this program will not be offered after the 2018-2019 academic year)

Admission Requirements

Applicants are admitted into the program only for the Fall semester. Students cannot begin the program in the Spring or Summer semesters. Admission to graduate work in advertising and public relations requires
a 3.0 or higher undergraduate grade point average (GPA) (on a 4.0 scale). Successful applicants must also earn a combined score of at least 300 on the verbal and quantitative portions of the Graduate Record Examination (GRE) general test, or at least 600 on the Graduate Management Admissions Test (GMAT). International students are required to obtain a score of 90 or better on the Test of English as a Foreign Language (TOEFL) iBT test. Required supporting materials include a statement of purpose explaining how a master’s in advertising and public relations would help you reach your career goals and three letters of reference (at least one from an academic source and one from a professional source).

Applications are reviewed starting November 15 on a rolling basis. The deadline for applicants to receive priority for departmental assistantships is March 15. Applications will be considered after the March 15 deadline, but they will not be considered for assistantships. No applications will be considered after June 15. The department offers a few competitive assistantships that provide a partial tuition waiver and a monthly stipend for support roles within the department.

Students that fall below the minimum grade point average or test score requirements may be admitted, but will require permission to continue. Students that require permission to continue must earn at least a 3.0 GPA after the first full semester in the program (minimum nine hours). Students that are transferring from another master’s program can have up to 12 hours accepted from their prior institution for the M.A. degree, pending a curriculum review by the graduate coordinator. In addition, non-degree seeking students can enroll in M.A. classes, pending a review by the graduate coordinator.

Accelerated Master’s Program

Through the Accelerated Master’s Program (AMP), talented seniors will be able to take courses that count simultaneously towards their undergraduate and graduate programs. Once admitted, an AMP student is approved to take up to 12 hours of graduate courses that can count towards both the B.A. and M.A. degrees, while also reducing the time it takes to earn his/her master’s degree by one year. Interested students will apply for the AMP program their junior year and will work with the graduate coordinator to create their plan of study for their final two years. Applicants must have earned 90 or more credit hours by the Fall semester that they start the AMP program and have a minimum GPA of 3.3. Students must also score a 300 or more on the GRE for admission; however, students that have a GPA of 3.75 or higher in major classes may receive a GRE waiver, pending a resume and portfolio review by the graduate coordinator.

Expedited Admission Track into the CIS Doctoral Program

The Expedited Admission Track into the CIS doctoral program allows highly qualified students that completed an undergraduate degree to be admitted into the doctoral program. Such students will begin graduate coursework in the A+PR M.A. program and complete their graduate degree as College-wide doctoral candidates, without having to reapply for admission or to transfer credit hours from the M.A. program into the Ph.D. program. In short, if admitted on the expedited track, candidates will be able to count 24 hours of M.A. coursework, rather than the maximum of 12 hours, toward their doctoral degree.

Requirements

• At least five years of professional experience in advertising, public relations or a related field
• Admission into the A+PR M.A. program and the CIS Ph.D. program

• Submit a statement of purpose indicating interest and commitment to graduate work through the doctoral level
• Upon completing 24 hours of graduate coursework at the master’s level (18 hours of core classes, a strategy class and a media class), students must pass a comprehensive, qualifying exam to continue towards the doctoral degree

Degree Requirements

Plan I, The Individualized Program

The individualized M.A. in advertising and public relations is a 33-hour program designed to provide students with knowledge of industry trends, proficiency in research-driven critical thinking and problem solving, and exposure to scholars and professionals who are well-connected to an evolving communication landscape in order to build a unique expertise in managing persuasive communication.

Students will work with a faculty advisor to create their own career emphasis from a wide range of electives within A+PR and other departments that will help them gain in-depth knowledge for their future career. These electives, along with a core specifically designed to provide students with a true blend of academic and industry knowledge, will help guide their capstone project. Students will choose from two options: a strategic plan for aspiring industry professionals or a thesis for aspiring scholars. In addition to coursework, students will be required to receive professional experience during the summer after their first year in order to enhance the training they receive in the classroom.

Each student’s progress will be guided by their faculty advisor. Students in each program must maintain a minimum GPA of 3.0 during their tenure in the program. Students that receive more than two “C” grades will undergo a faculty review to determine if they should proceed in the program.

<table>
<thead>
<tr>
<th>Core Courses (15 hours)</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>APR 551 Foundations of Integrated Comm</td>
<td>3</td>
</tr>
<tr>
<td>APR 550 Analysis and Insights I</td>
<td>3</td>
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<tr>
<td>APR 570 Industry Outlook and ProfDev</td>
<td>3</td>
</tr>
<tr>
<td>APR 583 Analysis and Insights II</td>
<td>3</td>
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<tr>
<td>APR 593 Global Comm Management</td>
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<table>
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<tr>
<th>Elective Courses (12 hours)</th>
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<tbody>
<tr>
<td>Media Course (3 hours - students must choose one)</td>
<td>3</td>
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<tr>
<td>APR 522 Media Strategy and Analytics</td>
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<tr>
<td>APR 523 Media Relations</td>
<td></td>
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<tr>
<td>Strategy Course (3 hours - students must choose one)</td>
<td>3</td>
</tr>
<tr>
<td>APR 524 Reputation Comm Strategy</td>
<td></td>
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<tr>
<td>APR 525 Brand Communication Strategy</td>
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</table>

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<tr>
<th>Electives (6 hours - based on area of speciality)</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will complete six hours of one of the following:</td>
<td></td>
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<tr>
<td>APR 598 Non-Thesis Project</td>
<td></td>
</tr>
<tr>
<td>APR 599 Thesis Research</td>
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</tbody>
</table>

Total Hours 33

Professional Experience Requirement

Students enrolled in the M.A. program will be required to complete an internship or some type of professional experience during the summer of their first year. This requirement is designed to encourage students to use the skills learned in the classroom in a professional setting.
Students will be required to submit a job description to the graduate coordinator for approval prior to completing the internship. Internships will be approved on a case-by-case basis, but typical internships that are approved would require at least 10 hours a week and/or 80 hours during the summer semester in an advertising, public relations or a related role in a professional setting. After completing the internship, students will submit a short (1-2 page) description of what they experienced and learned during the internship, as well as a form signed by their immediate supervisor, in order to satisfy the requirement. International students that must receive course credit for the internship requirement will enroll for one hour in APR 596 Independent Study Resrch.

Capstone Project

The capstone project will be an individual demonstration of your knowledge of the skills, theories and concepts that you learned in your coursework during the program. Students will work with an advisor to determine the best course of action from two options:

Strategic Plan

Students will work with their advisor to identify a problem or opportunity facing an organization of their choice. The student will conduct secondary and primary research in order to assess the problem/opportunity and create a strategic plan that will address the problem/opportunity. Completing an integrated communication strategic plan will be suggested to students that are looking to pursue a career in the advertising and public relations industry. The student will submit a proposal to a three-member standing committee, and upon completion, the student will present his/her plan to the faculty for evaluation. Students will enroll for six hours in APR 598 Non-Thesis Project during the spring semester.

Thesis

Students will work with their advisor to identify a gap in the scholarly research devoted to a topic in advertising and/or public relations. The student will conduct a review of related literature, and propose and execute original research that will answer the student’s overarching research inquiry. Completing a thesis will be suggested to students that are looking to pursue a doctorate. The student, along with their advisor, will form a committee that will evaluate the thesis upon completion. Students will enroll for six hours in APR 599 Thesis Research during the spring semester.

Plan II, The One-Year General Program

The one-year M.A. in advertising and public relations is designed to provide a general understanding and mastery of advertising and public relations. The one-year program requires:

a. completion of a specific 33-hour program of graduate courses,

b. demonstration of proficiency in research skills,

c. passing of a comprehensive written examination, and

d. completion of a master’s project in the course APR 598 Non-Thesis Project

<table>
<thead>
<tr>
<th>Fall semester</th>
<th>Total Hours</th>
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<tbody>
<tr>
<td>APR 551</td>
<td>Foundations of Integrated Comm</td>
</tr>
<tr>
<td>APR 550</td>
<td>Analysis and Insights I</td>
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<tr>
<td>APR 570</td>
<td>Industry Outlook and Prof Dev</td>
</tr>
<tr>
<td>APR 572</td>
<td>Persuasive Communication</td>
</tr>
<tr>
<td>Spring semester</td>
<td>Total Hours</td>
</tr>
<tr>
<td>APR 522</td>
<td>Media Strategy and Analytics</td>
</tr>
</tbody>
</table>

Interim session

APR 590 Special Topics | 3 |

First summer session

APR 597 Research for Project | 3 |

Second summer session

APR 598 Non-Thesis Project | 3 |

Total Hours 33

Research proficiency can be demonstrated by completion of APR 550 Analysis and Insights I and APR 583 Analysis and Insights II with grades of ”B” or better, or by successful application of research methods appropriate to the student’s project.

The comprehensive examination will be conducted during the first week of the first summer term and may be attempted only twice. Each year, two faculty members serve on the project committee for the Plan II master’s degree program. Those faculty members read each of the project reports submitted by students at the conclusion of APR 597 Research for Project/APR 598 Non-Thesis Project, and other faculty members may also attend the project presentations given by students at the end of this course.

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field. In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.
Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meritig approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.
As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Department of Communication Studies**

- Major
  - Communication Studies (MA) (p. 354)

[object Object]

**COM500 Intro Graduate Studies**

Hours 1

The primary goal is to orient new graduate students to the expectations and procedures of graduate study in the department. Topics covered include developing the plan of study, thesis prospectus, comprehensive examination, and choosing advisors and committees.

**COM501 Intro Tchng Public Speak**

Hours 1

The primary goal of this course is to facilitate the instruction of COM 123 Public Speaking. Students enrolled in this course will provide lesson plans for their classes and discuss options for improving classroom learning.

**COM513 Communication And Diversity**

Hours 3

Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media’s treatment of various groups in society. Approved as a communication and cultural diversity elective.

**COM515 African American Rhetoric**

Hours 3

A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community.

**COM521 Political Communication**

Hours 3

An exploration of rhetorical, media, and cross-disciplinary theories and literature related to political communication as expressed in campaigns and institutional governance.
COM525 Gender & Political Comm
Hours 3
Study of the impact of gender on political communication activities. Topics include gender differences in political messages and voter orientation, masculine ideals of leadership, women's roles and advancement in the political sphere, and media representations.

COM536 Independent Study
Hours 1-3
Students who want to count this course toward their Plans of Study must complete the official request form and submit it for the approval of their faculty advisor and the Graduate Program Director.

COM541 Contemp Rhetoric Theory
Hours 3
A survey of major contributions to rhetorical theory from the 20th century up to the present.

COM545 Classicl Rhetorcl Theory
Hours 3
A systematic inquiry into the development of Greek and Roman rhetorical theory during the classical period (ca. 480 B.C.E. - 400 C.E.).

COM548 Sem Rhetorical Criticism
Hours 3
An examination of various methodological perspectives of rhetorical criticism. Specifically, the course aims to familiarize students with both traditional and alternative critical methods and to encourage students to perceive the rhetorical dimensions of all manner of public discourse, ranging from speeches, advertising, film, popular music to discursive forms in new media and the Internet.

COM550 Qualitative Research Methods in Communication
Hours 3
An introduction to qualitative research methods in communication, including data collection and analysis. The goals of the course are to provide exposure to a broad array of qualitative methods, help students learn to use some of these methods, and to help them to understand the role of research in our field. The course is designed to help student actually conduct research, resulting in two conference-worthy papers.

COM551 Instructional Communication: Theories & Practice
Hours 3
This course explores the theories, research, and practice that identify communication skills and competencies in the educational setting.

COM555 Conflict and Negotiation
Hours 3
Negotiation is fundamentally a communicative activity. The main objective of this course is to understand processes of formal conflict management in mixed motive settings. Students will apply negotiation theory and skills to simulated negotiation cases that include buyer-seller transactions, negotiating through an agent or mediator, salary negotiations, deal making, resolution of workplace disputes, multiparty negotiations, international and intercultural negotiations, and ethical decision making and communication in negotiation. The skills and theory introduced in this course will help students manage integrative and distributive aspects of the negotiation process to achieve individual and collective goals.

COM556 Group Leadership
Hours 3
An advanced study of small-group behavior, examining in detail theories of leadership as they relate to problem solving in group situations.

COM561 Human Communication Theory
Hours 3
A detailed review of selected theories of speech communication with a focus on the critical examination of the foundation of social scientific theories.

COM562 Theories Of Persuasion
Hours 3
A critical review of social-influence theories in the area of persuasion and human action.

COM563 Relational Communication
Hours 3
Focused investigation of communication in close personal relationships, with primary emphasis on contemporary concepts and theories of romantic relationships and friendships.

COM565 Intercultural Communication
Hours 3
Survey and analysis of major concepts, theories, and research dealing with communication between people of different cultural backgrounds in multicultural and international settings.

COM567 Seminar Public Address
Hours 3
A topical consideration of individual case studies from public discourse, designed to probe problems of the nature of the audience, the ethics of persuasion, and the power of public advocacy in mass society. Topics may vary.

COM569 Communication & Gender
Hours 3
Explores the role of communication in the construction of gender. Covers feminist theoretical approaches in communication and other disciplines, the intersections of gender with other marginalities, and the role of gender in various communication contexts. Approved as a communication and cultural diversity elective.

COM571 Sem Organizatn Communctn
Hours 3
An introductory examination of historical and contemporary issues in organizational communication scholarship from a variety of theoretical and methodological perspectives.

COM572 Org Assessment/Intervent
Hours 3
Examines the theoretical issues inherent in the study of organizational communication, the primary factors requiring assessment and intervention, the impact of on-going changes and new information techniques, current challenges facing the organizational consultant, and the practical application of communication processes for improving organizations.
COM575 Technology, Culture, and Human Communication
Hours 3
Study of the complexity of technologically-mediated communication across cultures. This course combines literature and concepts from intercultural communication with human communication and technology and addresses the challenges of interacting with others via technology, working in global virtual teams and organizations, and participating as a citizen and consumer in the technology age.

COM590 Internship
Hours 1-3
Proposal for supervised field experience in communication studies must be submitted and approved.

COM595 Special Topics
Hours 3
Topics vary by instructor.

COM598 Professional or Creative Project
Hours 3
MA students in Communication Studies who elect the Professional Plan II Option may earn 3 hours credit for completing a research or creative project.

COM599 Thesis Research
Hours 1-6
No description available.

Faculty
Professors
Beth S. Bennett
Robert N. Gaines
Mark D. Nelson

Associate professors
Meredith Bagley
Robin M. Boylorn
Heather Carmack
Mary M. Meares
Carol Bishop Mills

Assistant professors
Jennifer Becker
Adam Sharples Brooks
William Sim Butler
Alexa S. Chilcutt
Darrin J. Griffin
Nikita Harris
Peter Jensen
Leah LeFebvre
Jessy J. Ohl
Caroline S. Parsons
Cynthia Peacock

Joshua R. Pederson
Chair
Beth S. Bennett

Professor emeritus
Thomas Harris

Associate professor emeritus
Frank M. Thompson, Jr.

Adjuncts
Jane S. Baker

Instructors
Angela Billings
Cory Paul Harrison
Robert Imbody

Communication Studies, MA
Master of Arts in Communication Studies
The master of arts degree program in communication studies is designed to promote understanding of the functions of human communication in its various forms and venues and emphasizes three substantive research areas: rhetoric and political discourse, interpersonal and organizational communication, and communication and culture.

Students can pursue one of three different options:

- **Academic** – Comprehensive Exam Option: for students who wish to fulfill teaching requirements in communication studies or who want to pursue advanced degree work. It requires a comprehensive written examination to demonstrate proficient knowledge in the selected area of study.

- **Research** – Thesis Option: for students who plan to continue their careers in academia and pursue advanced research opportunities. It requires an original thesis project in a specific research area of interest.

- **Professional** – Capstone Portfolio Option: for students who plan to pursue professional careers. It requires an internship or professional project and submission of a final Capstone Portfolio that provides a comprehensive overview of the work completed.

For distance learning students, this degree program can be completed entirely online, with a 12-hour elective emphasis in Organizational Leadership, designed for working professionals with either the academic or the professional option.

Admission Requirements
The department reviews applications for fall, spring, and summer admission into the program. Applications submitted to the Graduate School by May 1 will be reviewed by the department for fall admission, or by November 1 for spring admission, to the main campus program. Admission decisions regarding distance learning applications for the program are made on a rolling basis. To apply for departmental graduate assistantships, which are awarded only in the spring for the following year, applicants must have been accepted for admission into the program, by the department, no later than March 1.

Applicants must submit one of the following examination scores in support of their applications: the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT). Subject to the approval of the department chairperson and the dean of the Graduate School, a
maximize the number of 12 semester hours of graduate courses may be transferred from another institution. These hours must be in communication studies or in a closely allied subject and must contribute to the educational objectives of the student.

Graduate students in communication studies may choose elective courses to complete their plans of study, with approval of their academic advisors. A minimum of 24 graduate hours must be completed in communication studies.

See the Admission Criteria section of this catalog for more information.

Requirements for the MA Degree

The Department of Communication Studies uses a form of contract advising. Graduate students are required to plan contractual programs of study with their assigned advisors during the first semester of coursework. These contractual programs must be approved by the academic advisor and filed with the graduate program coordinator by the end of the first semester of coursework. Each plan of study must meet the minimum program requirements established by the Department of Communication Studies and the Graduate School.

Degree Requirements

A master of arts degree in communication studies requires a minimum of 30 hours, based on the following component areas of study:

<table>
<thead>
<tr>
<th>Course requirements</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td><strong>Core requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Theory courses (12 semester hours)</td>
<td></td>
</tr>
<tr>
<td>Students must successfully undertake one theory course each from A, B, and C, plus one additional theory course from A, B, or C</td>
<td></td>
</tr>
<tr>
<td>A. Rhetoric and Political Discourse</td>
<td>3</td>
</tr>
<tr>
<td>B. Interpersonal and Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>C. Communication and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Elective Theory Course (from A, B, or C)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Methods Course (3 semester hours)</strong></td>
<td></td>
</tr>
<tr>
<td>COM 548 or Sem Rhetorical Criticism (or other approved research methods)</td>
<td>3</td>
</tr>
<tr>
<td>COM 550 Qualitative Research Methods in Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Methods Applied Course, Plan II: Professional (3 semester hours)</strong></td>
<td></td>
</tr>
<tr>
<td>COM 598 Professional Project (or COM 590 Internship)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective or Emphasis Courses (12-15 semester hours)</strong></td>
<td></td>
</tr>
<tr>
<td>To be determined with the approval of one’s academic advisor</td>
<td>12</td>
</tr>
<tr>
<td>Total Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

Plan I: Thesis option, which includes 6 hours of thesis research COM 599 Thesis Research. In addition to completing the courses specified above and electives stipulated by their plans of study, students who choose Plan I must successfully complete a master’s thesis, orally defend that thesis, and have the thesis accepted by the Graduate School.

Plan II: Non-thesis Options, which include minimally six hours of electives in the department. All students who choose Plan II must complete a minimum of 30 hours of graduate coursework, including the courses specified above and others stipulated by their approved plans of study. Students following the Plan II option have a choice of two plans:

- **Academic Plan:** Students who choose this plan must pass a comprehensive examination, to be taken no later than the semester in which the course requirements for the master’s degree are to be completed. The examination is designed to reveal the knowledge gained by the candidate through both the theory courses and the electives taken in the program, as well as the candidate’s ability to express that knowledge in acceptable form. The questions will be formulated and evaluated by the comprehensive examination committee.
  - Professional Plan: Students who are primarily pursuing professional interests may choose this alternative plan. It provides students with an opportunity to include in their plans of study some type of practical application of their academic work. Students who choose to pursue this plan must secure permission to do so by submitting a formal proposal to their academic advisor, no later than upon completion of 12 hours of graduate coursework. To complete this plan of study, students are required to submit, at the end of their coursework, a Capstone Portfolio for their advisor’s approval.

Plan of Study for Organizational Leadership Emphasis

**Organizational Leadership Emphasis**

<table>
<thead>
<tr>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Organizational Leadership Emphasis (12 hrs)</strong></td>
</tr>
<tr>
<td>COM 555 Conflict and Negotiation</td>
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<tr>
<td>COM 560 Group Leadership</td>
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<tr>
<td>COM 571 Sem Organizatn Communctn</td>
</tr>
<tr>
<td>COM 572 Org Assessment/Intervent</td>
</tr>
<tr>
<td><strong>Communication Studies Theory Core (12 hours)</strong></td>
</tr>
<tr>
<td>COM 525 Gender &amp; Political Comm (or approved equivalent)</td>
</tr>
<tr>
<td>COM 563 Relational Communication</td>
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<tr>
<td>COM 513 or Communication And Diversity</td>
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<tr>
<td>COM 575 Tech,Culture, &amp; Human Comm</td>
</tr>
<tr>
<td>COM 561 Human Communication Theory (Method Requirement (6 hours))</td>
</tr>
<tr>
<td><strong>Methods and Application Requirement (6 hours)</strong></td>
</tr>
<tr>
<td>COM 550 Qualitative Research Methods in Communication</td>
</tr>
<tr>
<td>COM 598 or Professional Project</td>
</tr>
<tr>
<td>COM 590 Internship</td>
</tr>
<tr>
<td><strong>Capstone Portfolio: Students will submit a final Capstone Portfolio upon completion of coursework and professional project.</strong></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.
Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major
department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;  
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Faculty**

**Chair**
Beth S. Bennett

**Professors**
Beth S. Bennett
Robert N. Gaines
Mark D. Nelson

**Associate professors**
Meredith Bagley
Robin Boylorn
Heather Carmack
Mary Meares
Carol Bishop Mills

**Assistant professors**
Jennifer Becker
Adam Sharples Brooks
Sim Butler
Alexa S. Chilcutt
Darrin J. Griffin
JCM500 Orientation to Graduate Studies
Hours 1
This course introduces students to graduate study and sets the stage for the remainder of their coursework. Students learn about research in journalism and mass communication, and they become familiar with the department faculty’s interests and expertise. The course is also be a place to share questions and concerns about the program.

JCM501 Media Production Tools
Hours 3
Instruction in and critical analysis of communication technologies used in the production of community journalism.

JCM502 Producing Community Journalism
Hours 3
This course focuses on gathering, writing, editing, and presenting of news and information across media platforms.

JCM511 Depth Reporting
Hours 3
This course entails reporting and writing in-depth news and feature stories for publication in print and online. Students learn advanced techniques in information gathering and non-fiction writing. Deadline reporting and writing skills are addressed, as well.

JCM512 Seminar in American Cinema
Hours 3
The analysis of American cinema—focusing on three critical methods: genre study, authorship (the auteur theory), and the star system.

JCM517 Advanced Sports Writing & Reporting
Hours 3
Advanced techniques in reporting and writing for sports media, as well as ethical and societal implications of sports journalism.
Prerequisite(s): None – graduate student standing.
Prerequisite(s) with concurrency: None

JCM520 Media Effects
Hours 3
Theoretical study of individual and societal effects of media, including the impact and influence on attitudes and cultural beliefs.

JCM528 Editorial Analysis and Opinion
Hours 3
The art and practice of writing editorials, columns and other persuasive forms for print and online.

JCM533 Journalism and Emergent Media
Hours 3
This course examines how emerging media have and are evolving the relationship between journalism/mass media and society. From primarily a social scientific perspective, this course addresses key theories and issues relevant to journalism’s ongoing shift to the digital world.

JCM536 Teaching of Journalism
Hours 3
This service learning course provides an overview of journalism and the process of producing school publications. The course focuses on hands-on journalism projects that acquaint students with the software applications used to generate news products. Students also spend time in classrooms learning about school publications.

JCM542 Advanced Magazine Writing
Hours 3
This course focuses on writing and editing of long-form articles for publication in print and online depth magazines. Students learn advanced narrative non-fiction writing techniques and how to gather information for longer feature stories.

JCM545 Feature Writing in the Digital Age
Hours 3
Advanced techniques in writing and editing feature articles for publication across media outlets. Students will learn nonfiction writing techniques and apply them to a variety of feature article forms, with an emphasis on storytelling for digital audiences. Students will study top-notch published work to observe these techniques in action, and then sharpen their own skills through several short and lengthier, in-depth feature articles.

JCM548 News Analysis
Hours 3
Historical and critical study of electronic-media news in the United States.

JCM552 Journalism Theory and Research
Hours 3
Exploration of theory and an overview of research approaches as they relate to the study of news media and their role in communities.

JCM553 Making Media Innovation
Hours 3
Covers the methods by which journalists and marketing professionals monitor the interests and activities of readers, viewers, and users of content.

JCM555 Entrepreneurial Journalism
Hours 3
Practices, ethics and theory of entrepreneurship in the journalism field.
JCM561 JCM Special Topics  
Hours 1-3  
Course content varies to explore current topics relevant to journalism and creative media. Repeatable for up to 6 credits if the topics are different.

JCM562 Contemporary Issues in Journalism  
Hours 3  
Examines current issues facing the news media, ranging from professional problems to the human, social, and other consequences of news, news practices, and news technology.

JCM563 History of Journalism  
Hours 3  
This course focuses on the study of the origin and development of journalism, its major practices (e.g., news reporting), important ideas (e.g., objectivity), and the individuals who made notable contributions to the field. The history and philosophy of freedom of the press and the First Amendment receives particular attention.

JCM571 Practice of Community Journalism  
Hours 1  
An immersion in a community and in the news organization that covers it, and an introduction to the daily practice of professional journalism at the community level.

JCM572 Seminar in Professional Journalism  
Hours 3  
Studies in selected aspects of the practice of journalism. May be repeated.

JCM573 Documenting Justice I  
Hours 3  
Documenting Justice I is an interdisciplinary course in documentary filmmaking. Harnessing a variety of perspectives drawn from disciplines across the humanities, students use film to document and analyze the many dimensions of culture and social experience at issue when focusing on a story of justice or injustice in Alabama. The course involves study of documentary history and theory as well as the ethics of cinematic non-fiction.

JCM574 Documenting Justice II  
Hours 3  
Documenting Justice II is an interdisciplinary course in documentary filmmaking. Harnessing a variety of perspectives drawn from disciplines across the humanities, students use film to document and analyze the many dimensions of culture and social experience at issue when focusing on a story of justice or injustice in Alabama. The course involves study of documentary history and theory as well as the ethics of cinematic non-fiction.

JCM575 Anatomy of a Trial I  
Hours 3  
Anatomy of a Trial is an interdisciplinary service-learning course in narrative nonfiction, focusing on audio storytelling. Students learn to develop their own personal voice and style while also learning practical skills about the emerging podcast landscape. Students are introduced to professional audio techniques, including recording, editing and sound design. The course involves study of radio journalism history and theory as well as the ethics of narrative nonfiction.

JCM576 Anatomy of a Trial II  
Hours 3  
This is an interdisciplinary service-learning course in narrative nonfiction, focusing on audio storytelling. Students learn to develop their own personal voice and style while also learning practical skills about the emerging podcast landscape. Students are introduced to professional audio techniques, including recording, editing and sound design. The course involves study of radio journalism history and theory as well as the ethics of narrative nonfiction.

JCM590 Directed Research in JCM  
Hours 1-3  
Independent study as arranged.

JCM597 Master’s Project  
Hours 1-3  
Students produce a professional-level project or complete comprehensive exams.

JCM599 Thesis Research  
Hours 1-6  
Students develop and complete independent research project under faculty supervision.

Faculty  

Professors  
Armstrong, Cory (Chair)  
Billings, Andrew C.  
Bissell, Kimberly  
Bunker, Matthew  
Bragg, Rick  
Butler, Jeremy G.  
Evans, William  
Lowrey, Wilson  
Zhou, Shuhua  

Associate Professors  
Cantrell, Glenda  
Daniels, George  
Raimist, Rachel  
Roberts, Christopher  
Warner, Kristen J.  

Assistant Professors  
Bragg, Diane  
Clark, Chandra  
Hoewe, Jennifer  
Panek, Elliot  
Parrott, Scott  
Sherrick, Brett  

Temporary Graduate Faculty  
Anderson, Lars  
Brantley, Chip
Champion, Maya
Grace, Andrew

Journalism, M.A.

The Department of Journalism and Creative Media offers the Master of Arts degree with a major in journalism. Students work closely with a faculty dedicated to the principles and practices of sound journalism and scholarly inquiry. The program offers three options for study:

- Individuals who seek in-depth knowledge and mastery of one or more of the subfields and methodologies of journalism — for example, communication history, communication law, communication theory and methods. These individuals typically follow Plan I (see below) and go on to pursue doctorates. Those with significant experience in the journalism field may teach without the PhD degree.
- Individuals who seek to work professionally in writing, editing, visual journalism and/or digital journalism, and who wish to develop conceptual knowledge of the field, as well as critical-thinking and problem-solving skills. These students typically follow Plan II (see below).
- Individuals who wish to earn graduate credit through distance education can enroll in our online journalism program. This program is ideal for journalists eager to expand their knowledge base, individuals looking to start a career in journalism, and those interested in teaching in the field of journalism.

The program serves both recent BA recipients, whether in journalism/mass communication or other fields, and professionals seeking to deepen their knowledge.

Admission Requirements

Admission to graduate work in the Program of Journalism requires a 3.0 or higher undergraduate GPA (on a 4.0 scale). Applicants not meeting this criterion may be admitted under permission to continue status if the program’s faculty agrees the student is likely to succeed in the program.

In addition to the online application, applicants must submit other documents to the UA Graduate School, including undergraduate transcripts and a statement of purpose addressing how the degree will advance the applicant’s professional and educational goals. Applicants should also solicit three letters of recommendation, which may be submitted online to the UA Graduate School or sent as hard copies to the Journalism program's graduate coordinator. Applicants should send a resume to the program’s graduate coordinator, and they may also submit examples of journalistic work to the coordinator – e.g., stories, photos or multimedia – via hard copy, disk, or website link.

The program faculty may require up to nine hours of additional coursework for applicants lacking undergraduate classes related to the professional values and competencies that are central to the master’s program.

The application deadline is March 31, but applicants are encouraged to apply by the end of January in order to be considered fully for University funding (assistantships or fellowships).

See the Admission Criteria section of this catalog for more information.

Degree Requirements

Each student entering the graduate program in journalism must complete 31 semester hours of credit, under either programs of study. Requirements for each plan are as follows:

### Plan I, Master’s Thesis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 500</td>
<td>Grad Studies Orientation</td>
<td>1</td>
</tr>
<tr>
<td>MC 551</td>
<td>Sem Communication Theory</td>
<td>3</td>
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<tr>
<td>MC 550</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>JCM 562</td>
<td>Cont. Issues in Journalism</td>
<td>3</td>
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<tr>
<td>JCM 563</td>
<td>History of Journalism</td>
<td>3</td>
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<tr>
<td>JCM 599</td>
<td>Thesis Research</td>
<td>6</td>
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<tr>
<td>Electives</td>
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<td>12</td>
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<tr>
<td>Total Hours</td>
<td></td>
<td>31</td>
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</table>

All students must enroll in JCM 500 Grad Studies Orientation their first semester.

Initially, the program’s graduate coordinator will serve as the student's advisor. The coordinator will assess students’ undergraduate transcripts and will help the student establish a plan for cognate or elective courses that will provide students with core values and competencies for the program.

At the completion of 12 credit hours, the student should select a committee chair. The chair will serve as the student’s academic advisor and will help the student select members for the thesis or project committee. The thesis committee must comprise two faculty members from the Department of Journalism and Creative Media program and at least one member from outside the program. The project committee must comprise at least two faculty members from the program — no outside member is required. An Appointment or Change of Master’s Thesis Committee form must be submitted to the Graduate School for the dean’s approval of the committee members.

The student is required to pass a comprehensive examination in conjunction with an oral defense of the thesis or master’s project. Students are questioned on their thesis or project topic, and on core areas of their course of study. For the student to pass the examination, committee members must be satisfied the student has gained sufficient knowledge in core areas of the curriculum and has mastered a specific area of knowledge.

The following applies to students pursuing a master’s degree under Plan II

Plan II students produce a project rather than a thesis. The successful master’s project demonstrates mastery of a knowledge area as well the ability to apply this knowledge through the practice of journalism. The typical project will include:

1. an academic component in which the student systematically analyzes some aspect of journalism or its consequences and
2. a rigorous, thorough journalistic work, such as an in-depth multimedia story

The academic analysis should shape the decisions the student makes about the journalistic work. For example, a student may analyze past news coverage of a particular topic, noting shortcomings in the reporting, and then use findings from this analysis to shape the reporting for the student’s own in-depth news story.

Prior to the final semester, the student should propose the project in writing to the committee chair, describing how the project will be accomplished and laying out a specific time table. The approved plan will be shared with the other committee member(s).

Students present the project to fellow students, committee faculty and news professionals as part of a comprehensive oral examination. In conjunction with this exam, each student under Plans II will present a portfolio of the student’s best work while enrolled in the program. The final project report should be the first item in the portfolio.

At the time of the student’s comprehensive exam, each student under Plan II will present a portfolio of the student’s best work while enrolled in the program. The master’s project, which includes the academic study and the journalistic work, should be the first item in the portfolio.

Plan II also includes a one-year option involving a professional immersion experience in a newsroom. In recent years this option has been administered in conjunction with the Anniston (Ala.) Star newspaper. Admission criteria and core curriculum requirements are identical to the traditional Plan II option.

**Master’s Degrees**

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master’s degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate
School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

**Journal Format.**

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of
graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

School of Library and Information Studies
• Majors
  • Book Arts (MFA) (p. 368)
  • Library and Information Studies (MLIS) (p. 371)

Vision
Through excellence in teaching, research, and service, SLIS is committed to educate socially responsible information professionals prepared to empower diverse populations in a multitude of contexts, communities, and cultures.

Mission
To advance the theory, art, and practice of professions specializing in the use and creation of information in traditional and emergent forms.

Values
Since its beginnings more than 40 years ago, SLIS has developed a unique interdisciplinary personality that blends the arts, humanities, and social sciences. We support a mutual belief in and respect for those we serve. This is evident in our strong support of intellectual freedom, access to all, and the tenets of social justice.

Educational Objectives
The educational objectives of these graduate programs are as follows:

Teaching
Provide students with the knowledge, skills, understanding, and diverse technologies to meet the changing informational and cultural needs of diverse populations and organizations. Foster leadership skills and abilities in all students, provide opportunities within the program for students with leadership potential to exercise their abilities, and encourage students as graduates to seek out and assume leadership roles. Improve and develop students' critical and conceptual thinking skills.

Research and creative activity.
Augment and advance knowledge through basic research and improve professional practice through systematic inquiry into its nature, standards, and principles.

Service
Apply the insights and knowledge gained through research and instruction in service to public- and private-sector organizations.

Facilities
SLIS classrooms, faculty offices, and shared spaces are housed on the fifth floor of the Gorgas Library in the heart of the campus. Student spaces provide desktop computing, printing, laptop workstations, individual and group work spaces, professional resources, and a collection of children and youth literature. A student lounge is conveniently located for relaxation and refreshment.

Academic Common Market (ACM)
The School of Library and Information Studies participates in the ACM, an agreement among selected Southern states to share academic programs at in-state tuition rates. Residents of the states of Arkansas, Delaware, Virginia, and West Virginia may make an ACM application to attend the MLIS program. If accepted, The University of Alabama will pay the out-of-state portion of the student’s tuition. Residents of Georgia, Kentucky, Louisiana, Mississippi, South Carolina, and Tennessee may apply to the ACM to attend the MFA in book arts program, also with UA’s paying the out-of-state portion of tuition. Background information on the ACM, a list with the contact information for each state’s ACM coordinator, and an online application to the UA Academic Common Market.

A number of departmental assistantships, which not only pay a stipend but also cover some out-of-state fees, as well as a number of scholarships are available each academic year. For information, contact the director of the School of Library and Information Studies.
BA522 Printing III Print/Publ
Hours 3-6
Students initiate and produce an edition of a relatively extensive book. Emphasis is on production, with manuscript selection and editing being critical aspects. Photopolymer platemaking processes are introduced in a desktop publishing environment adapted to historic tools and media. Such subjects as marketing and distribution of limited-edition books are covered. For those students taking the 6-hour option, a Parallel Editions book may be produced.

BA523 Printing IV: Print Publ
Hours 3-6

BA530 Bookbinding I: Elements Of Bookbinding
Hours 3
Drawing upon both the historic and contemporary Western bookbinding traditions, this course is an initiation into fundamental binding forms, techniques, materials, and design. Through the construction of a series of cloth and paper structures, students will gain an understanding of the properties inherent to the materials and how they work in the context of bookbinding. In addition to the development of good hand skills and proper use of materials, aesthetic and design issues concerning book construction will be addressed.

BA531 Bookbinding II: Fundamentals of Case Bookbinding
Hours 3
An introduction to the materials and techniques of case bookbinding. Students will continue to refine the fundamental binding skills acquired in BA 530, while being introduced to more advanced materials techniques. Case bookbinding and custom built enclosures will be constructed using paper, cloth, and leather. Students will gain a comprehensive understanding of these skills necessary for completing both one-of-a-kind and edition work.

BA532 Bookbinding III: Intermediate Bookbinding
Hours 3-6
An introduction to the materials and techniques of leather bookbinding along with the principles of conservation treatments as they relate to the processes of rebinding. Students will study the methods of production of animal skins for book making, the qualities of these skins, and their identification. Instruction in the use of leather-working tools, advanced case binding techniques, and in-board binding construction will be introduced. A strong emphasis will be placed on paper mending, forwarding techniques and leather preparation.

BA533 Bookbinding IV: Advanced Bookbinding
Hours 3-6
An advanced study of bookbinding and finishing techniques. Students will refine leather-working and binding skills while exploring methods for fine and design work. Readings and discussions will focus on sound binding practices with an emphasis on the art and practice of covering in leather. An advanced final binding project will allow students to demonstrate their mastery of the materials and techniques presented in the binding I-IV course sequence.

BA534 Boxmaking
Hours 3
An exploration of traditional and experimental forms of boxes and other protective enclosures for books. Boxes serve both aesthetic and functional purposes: they house, protect, and present their contents. Students will learn box making techniques such as measuring, fitting, covering, and casing; these will be considered also in connection with more complex components like partitioning and layering. We will discuss aesthetics in the context of overall design as well as selection of materials and structures appropriate for specific applications.

BA541 Papermaking
Hours 3
Provides hands-on experience in the fundamentals of making traditional Western-style handmade papers using a variety of fibers. The objective is to produce reference samples of various kinds of sheets, as well as edition sheets of papers for book or art-making purposes.

BA592 Graduate Symposium
Hours 3
Discusses professional standards, professional presentation and portfolio building, creative project research, exhibition design, management of a small business, marketing, and other topics. Six meetings during the course of the semester.

BA593 Workshops In Book Arts
Hours 1-12
Workshops covering all subjects in the book arts, held both on and off campus.

BA594 Pract Teaching Book Arts
Hours 3-6
Practical experience teaching introductory courses in printing, binding, and other appropriate book arts.

BA595 Independent Project
Hours 1-6
Provides an opportunity for the student to pursue independently a project in the book arts.

BA596 Dir Research Book Arts
Hours 1-6
Provides an opportunity for an intensive investigation of both historical and technical studies of a book-arts craft.

BA597 Internship
Hours 1-6
A direct learning experience in a studio of a professional book artist.
BA599 Creative Project Production  
Hours 1-12  
The capping experience of the MFA in the book arts program is the creative project, thesis, and exhibition. Working with a faculty advisor, the candidate develops a project that demonstrates a deep understanding of the craft and the aesthetic, historic, and critical contexts of the book; to establish technical expertise; and to work independently. The thesis paper provides the student a formal means in which to articulate the aesthetic, historic, and critical contexts of his or her work as well as the scope and merits of the creative project. The exhibit, which is publicly presented in the Book Arts Gallery, provides the student with an opportunity to showcase both artistic and technical skills and to contextualize the body of work produced during the course of the program. A public defense with a slide presentation is also required.

LS500 Organization Of Information  
Hours 3  
Required course introducing the principles of organizing bibliographies, library catalogs, and collections. Examines the content of bibliographic records in printed and machine-readable form, choice and form of access points, authority control, verbal and classified systems of subject access, and the impact of new technologies. An introduction to OCLC searching is included. The course objective is to enable the student to understand and use catalogs and bibliographies. Students interested in becoming catalogers should follow LS 500 with LS 506 Cataloging and Classification.

LS501 Intro Library Info Study  
Hours 3  
Required course designed to provide the student with a broad background in library and information studies. Must be taken during the first 12 hours of a student's program. Through a variety of instructional methods, this course examines three interrelated themes: the nature of the library and information profession; issues of intellectual freedom and access to information; and the impact of technology upon society and the profession.

LS502 Research Methods  
Hours 3  
Required course introducing research design and statistical techniques used in library, media, and information science. At the conclusion of the course, the student should be able to comprehend and utilize research reports in these fields and to design and carry out basic research projects.

LS503 Systems Analysis  
Hours 3  
Investigation of the concepts of systems analysis; investigation and use of the techniques of systems analysis; and study of applications of systems analysis in library and information systems.

LS504 Media Prod & Utilization  
Hours 3  
Instructional modules that introduce the student to basic skills in the preparation and utilization of educational media.

LS505 Collection Development  
Hours 3  
Explores principles and issues involved in developing library collections. Aspects such as community analysis, policy development, selection and acquisitions, resource sharing, evaluation, weeding, and preservation are examined.

LS506 Cataloging & Classification  
Hours 3  
Explores problems of descriptive cataloging of print and non-print materials; subject access using Library of Congress subject headings, LC classification, and Dewey decimal classification; OCLC searching, record modification, and inputting; and contemporary issues in bibliographic control.

LS507 User Centered Information Services  
Hours 3  
Required course introducing printed and digital reference sources and reference services.

LS508 Management Theory and Practice  
Hours 3  
Designed to introduce students to the theory and practice of modern management by studying the management aspects of authority, communications, decision making, delegation, leadership, personnel, planning, budgeting, and motivation. Use is made of case studies and simulations.

LS509 Distance Learn Lib Info Stdy  
Hours 1  
An intensive course that provides an orientation to distance learning in the School of Library and Information Studies. Technical issues related to distance learning, resource issues such as access to library and electronic collections, and socialization to librarianship are addressed. Particular emphasis is on the online MLIS program in which the student has enrolled.

LS510 Info Resrcs Humanities  
Hours 3  
Surveys and evaluates the major informational and bibliographical resources in literature, mythology, religion, philosophy, history, and the visual and performing arts. Stephens, Aversa.

LS511 Info Resources Soc Sci  
Hours 3  
Surveys scholarly communication and the use of information in the social sciences. The use of reference sources in psychology, sociology, economics, anthropology and political science is taught.

LS512 Info Resources:Science  
Hours 3  
Surveys scientific and technical communication, the bibliographic structure of science and technology, and information services for scientists and technologists. In-depth study of the major information sources in biology, chemistry, physics, mathematics, engineering, and geology is included.

LS514 Sources of Business Information  
Hours 3  
Surveys and evaluates the major informational and bibliographical resources in business librarianship.
LS520 Early Childhood Literacy Materials & Story Programs
Hours 3
Introduces a wide variety of print and non-print early literacy materials for young children ages birth to seven with an emphasis on selecting materials and developing literature-based story programs to meet their educational, cultural, and recreational needs. Among the types of story programming techniques to be explored are storytelling, flannel boards, drama, puppetry, and finger rhymes. Emphasis will be placed on investigating the principals involved in designing, implementing, promoting and evaluating early literacy story programs for young children.

LS521 Matl & Services Childrn
Hours 3
Explores materials (print and non-print) and programs appropriate for children ages 3 to 12.

LS522 Matl Serv Young Adults
Hours 3
Explores materials (print and non-print) and programs appropriate for teenagers.

LS523 Matl Services Adults
Hours 3
Examines services, programming, and popular materials provided to adult users of public libraries.

LS524 Project Management
Hours 3
Introduces graduate level concepts and skills associated with project management in information rich environments. Includes teamwork, team development, and collaboration.

LS527 Information Literacy Instruction
Hours 3
This course is intended to provide students with an introduction to the concepts, theories, and practice of library user instruction through reading, discussion, class speakers, and practice. The focus of the course will be on instruction for adult users in public and academic library settings.

Prerequisite(s): LS 501 and LS 507

LS530 Public Libraries
Hours 3
Examination of public library development, purpose, governance, and services and exploration of issues and concepts involved in managing public libraries.

LS531 Academic Libraries
Hours 3
Study of the role of library service in higher education.

LS532 School Media Centers
Hours 3
Develops a philosophical and functional background of the school-media program as an integral part of the teaching-learning process.

LS533 Spec Libr & Info Centrs
Hours 3
Philosophy, environment, and unique aspects of the services, operation, and management of special libraries and information centers are covered. Provides considerable opportunity for study of topics of interest to individual students.

LS534 Medical Librarianship
Hours 3
Introduction to medical librarianship and the environment in which it operates. Orientation to the health care field, operation and administration of health sciences libraries, and basic information sources and services for the health sciences is included.

LS535 Records Management
Hours 3
Introduces the fundamentals of information and records management. Content includes (a) inventory, scheduling and auditing records; (b) active and inactive information maintenance; (c) organizing and administering a records center; and (d) applications for information systems (computer, microform and paper).

LS536 Archives
Hours 3
Survey of archival resources and special collections, with attention to their organization, administration, and service problems.

LS537 Law Library Legal Resources
Hours 3
Introduces the concepts of law library management and the techniques and materials of legal research.

LS541 Youth Programming
Hours 3
Explores various types of literacy programs and outreach services for youth (children, tweens, and teens) as well as the development and management of library environments that facilitate life-long learning and reading adventures.

LS542 Instruct Design & Dev
Hours 3
Comprises a series of modules that cover the basic skills required to undertake instructional development. Materials needed to plan and prepare instruction, as well as exercises designed to upgrade interpersonal skills, are included. Designed for library-media specialists, supervisors, administrators, and others who assist teachers in the development of instruction.

LS543 Traditional & Digital Storytelling
Hours 3
Introduces a wide variety of storytelling techniques both traditional and digital (technology-based) and explores how these strategies can be used in library programs and services for children and young adults. Emphasis is placed on developing personal storytelling skills via technology and traditional resources. A web-cam is required for this course.

LS544 Cultural Diversity Programming
Hours 3
Explores the development and implementation of various types of library programs and outreach services for children and young adults that promote cultural diversity.
LS555 Introduction to Archival Studies  
Hours 3  
Three hours. This course offers an introduction to archival theory and practice. Emphasis is placed on investigating the nature and character of archival forms, the role of the archivist in society, the ethics of archival practice, and the social function of records and archives. (formerly LS 536 Archives).  
Prerequisite(s): This course has no pre-requisites.

LS556 Intellectual Foundations of Archival Theory & Practice  
Hours 3  
Archives are made by ideas. Archivists have defined, and described, archives as functioning as memory, evidence, and information. In addition, archives have been ascribed cultural, historical, and artifactual values. This course is a critical examination of archival thought and its influence on how archives are conceived, constructed, and ultimately used.  
Prerequisite(s): There are no prerequisites for this course.  
Prerequisite(s) with concurrency: There are no prerequisites for this course.

LS557 Archival Appraisal  
Hours 3  
This course explores topics in the selection and appraisal of archival materials. In this course you will gain exposure to the principles and approaches, which influence how records are selected for long-term retention and preservation, as well as practical performing this archival practice.  
Prerequisite(s): There are no prerequisites for this course.  
Prerequisite(s) with concurrency: There are no prerequisites for this course.

LS558 Archival Representation, Access & Use  
Hours 3  
This course explores topics in the organization of archival materials. Specifically, the topics addressed include the description, arrangement, and representation of archival objects and collections. In studying these topics, students will obtain an understanding of the theoretical underpinnings of these practices as well as practical experience in creating usable collections through archival arrangement and description.  
Prerequisite(s): The prerequisite for this course is LS 500 Organization of Information. Please contact the instructor if you have not fulfilled this requirement.  
Prerequisite(s) with concurrency: The prerequisite for this course is LS 500 Organization of Information. Please contact the instructor if you have not fulfilled this requirement.

LS560 Information Technologies  
Hours 3  
Required course. This course provides future information professionals with a solid foundation of basic information technologies at the skill, conceptual, and analytical levels. Acquaints students with the role of technology in information organizations. Students gain hands-on experience in web application production from a user-centered perspective, including: hypertext, usability analysis, database application, and technology instruction. Foundations of change management are addressed. IT Fluency is used as a model to explore the topics of this course.

LS561 Fundament Info Science  
Hours 3  
Includes selected topics centered on the study of information needs, uses, and access. Covers methods for identifying the information needs of diverse populations, how people seek and use information, and methods for evaluating the effectiveness of traditional and computerized systems in helping people deal with their information-related problems. Explores the changing roles of traditional information sciences methods and tools (e.g. indexing, user studies, cognitive studies) in these matters.

LS562 Digital Libraries  
Hours 3  
Prepares students to develop digital libraries, exploring the issues associated with creating, operating, and maintaining digital libraries; analyzing electronic library programs in the U.S. and assessing their impact on education, scholarship and research.  
Prerequisite(s): LS 560

LS564 Programming for Digital Libraries  
Hours 3  
The main focus of this course is to learn basic programming concepts and skills for managing different types of content and developing interactive systems. Java is the programming language used in this course to explore the development of digital libraries. We will start out at a beginner’s level with Java, and students will gain understanding of basic programming syntax, data structures, and logic. Students will then learn how to develop applications for more applied tasks, including data parsing and processing, and extending specialized Java packages for implementing further functionality of system components found in digital libraries.

LS566 Metadata  
Hours 3  
Surveys metadata issues in library and information environments and includes hands-on work with metadata schemas and digital libraries of networked resources.  
Prerequisite(s): LS 500

LS567 Digital Reference  
Hours 3  
Explores societal problems and professional developments that relate to digital reference services in public, academic and special libraries. Explores the impact of digital reference on users and libraries.  
Prerequisite(s): LS 507
LS569 Information Management
Hours 3
This course will survey information management tools and techniques applied for maintaining, processing, and disseminating digital information. Specific topics will include physical database structures, database design, database-driven web applications, user interface, and representation for retrieval. Course exercises cover fundamental techniques for data modeling, implementing and querying databases, and information visualization.

LS570 Internship
Hours 1-3
Internship.

LS572 Intern Sch Media Cntrs
Hours 3
Intern Sch Media Cntrs.

LS580 Outreach to Diverse Populations
Hours 3
Explores diverse cultural groups and the ways that all types of libraries can effectively serve the informational and recreational needs of these populations.

LS581 Universal Design for Information Technologies
Hours 3
Examines the place of information and communication technologies, online resources, and social networking tools in the current practice of information and communication interactions for persons with mild to severe physical access challenges.
Prerequisite(s): LS 560 - Information Technology

LS582 Race, Gender, and Sexuality in Library & Information Studies
Hours 3
This course explores how race, gender, and sexuality shape (and are shaped by) LIS as a profession and practice. Socially constructed theories of race, gender and sexual identity will be critically examined in different contexts as they intersect, overlap and impact LIS institutions, information use, technology practices, and the design of information resources and services in the processes of creation, organization, and dissemination of information in library and information professions.

LS583 Social Aspects of Information
Hours 3
This course covers a range of social, political, and economic issues related to how people interact with information and communication technologies. The class explores the effects of different social contexts on the creation, use, and meaning of information technologies. Subject matter will range from examining online interactions, mobile technologies, information and work, digital labor practices, and laws and policies related to information technologies.

LS590 Issues In Librarianship
Hours 3
Explores societal problems and professional developments that have, or are likely to have, an impact on the practice of librarianship. May be taken more than once.

LS598 Directed Research
Hours 1-6
Provides the opportunity for an intensive investigation of a special aspect of library and information studies, under the supervision of an appropriate faculty member.

LS599 Thesis Research
Hours 1-6
Thesis Research. Maximum of 6 hours may be earned.

Faculty
Director
Dr. Jim Elmborg

Professors
Prof. Anna Embree
Dr. Jamie Naidoo

Associate professors
Dr. Laurie Bonnici
Dr. Steven MacCall
Dr. Jeff Weddle

Assistant professors
Dr. John Burgess
Dr. Robert Riter
Dr. Miriam Sweeney
Dr. Steven Yates

Instructor
Prof. Sarah Bryant

Intern coordinator & adjunct professor
Prof. Sybil Bullock

Dean and professor emeritus
Dr. Charles Osburn

Book Arts, MFA
The program leading to the MFA in the book arts degree is a 60-credit-hour program of study comprised of four areas: printing and publishing, bookbinding, papermaking, and the history of the book, with a program emphasis on the book as an integrated unit. Students may pursue one of three concentrations: printing and publishing; bookbinding; or a fusion of the two, focusing on the whole book. Emphasis is placed on developing craft skills based on historical principles and techniques, as well as artistic expression. The MFA in the book arts program develops professional-level book artists who have well-honed technical knowledge of the various facets of contemporary bookmaking, an intimate personal involvement with their specific areas of interest, and an understanding of the role of the book in society.

Admission Requirements
Applicants may submit a score for either the general portion of the Graduate Record Examination or the Miller Analogies Test in support of the application for admission. Admission requirements for the MFA program in the book arts are consistent with those for the MLIS degree program. A portfolio is not required; however, students are encouraged to submit one.
Degree Requirements
Candidates for the MFA degree in the book arts must earn a minimum of 60 semester hours of credit, including at least six hours in the history of the book and three hours in a historical/theoretical course appropriate to the goals of the individual student; at least 33 hours in the book arts studio; and 12–18 hours of electives within or outside the book arts program. All coursework must be completed with a grade average of "B" or better. All students enter the program in the fall and spend four semesters in residence.

All MFA students must complete, as part of the 60 hours, the following required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 520</td>
<td>Print I Elements Printing</td>
<td>3</td>
</tr>
<tr>
<td>BA 521</td>
<td>Print II Typograph Printing</td>
<td>3</td>
</tr>
<tr>
<td>BA 530</td>
<td>Binding I: Elements Of Binding</td>
<td>3</td>
</tr>
<tr>
<td>BA 531</td>
<td>Binding II Fund of Case Bndng</td>
<td>3</td>
</tr>
<tr>
<td>CIS 655</td>
<td>Book Artifact Materialty Text</td>
<td>3</td>
</tr>
<tr>
<td>CIS 654</td>
<td>Print Culture And Society</td>
<td>3</td>
</tr>
<tr>
<td>BA 592</td>
<td>Graduate Symposium</td>
<td>3</td>
</tr>
<tr>
<td>BA 599</td>
<td>Creative Thesis Project</td>
<td>9-12</td>
</tr>
</tbody>
</table>

Total Hours: 30-33

NOTE: No more than 20 percent of courses required for a degree may be taken on a pass/fail basis, and as with all graduate programs at the University, at least 75% of courses must be completed with a letter grade of either A or B.

Those students concentrating in printing and publishing also must complete the following:

Printing and Publishing Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 522</td>
<td>Printing III Print/Publ</td>
<td>3-6</td>
</tr>
<tr>
<td>BA 523</td>
<td>Printing IV: Print Publ</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Those students concentrating in bookbinding must also complete the following:

Bookbinding Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 532</td>
<td>Binding III: Intrmd Bndng</td>
<td>3-6</td>
</tr>
<tr>
<td>BA 533</td>
<td>Binding IV: Adv Binding</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Those students concentrating on the whole book must also complete advanced coursework in both printing and binding. The configurations of advanced courses will be determined through discussion with the book arts faculty. Students who are not enrolled in the MFA program and who wish to take book arts classes must obtain permission from the instructor before enrolling.

Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with
The program leading to the Master of Library and Information Studies (MLIS) degree is a 36-credit-hour program, one of approximately 55 programs in the United States and Canada accredited by the American Library Association and the only ALA-accredited program in the state of Alabama. The degree prepares graduates to work in any type of library—public, K–12, academic, or special—and information center and in entrepreneurial and research environments, especially those using advanced information technologies.

See the Admission Criteria section of this catalog for more information.

**Admission Requirements**

Students may be admitted to the School of Library and Information Studies without condition (regular admission) or with academic conditions imposed. The MLIS program is selective, and does not admit every applicant. Applications are considered holistically, so no single factor determines acceptance to the program.

**Regular Admission Requirements**

An applicant whose credentials meet the following minimum requirements may be considered for regular admission:

- A grade point average of at least 3.0 overall for the last 60 semester hours in a degree program, based on a 4.0 system AND
- an acceptable score on one entrance examination (minimum test scores: 300 on the revised GRE test, or 1000 on the GRE general test, or a score at the 50th percentile on the MAT) OR
- a prior graduate degree completed within the last five years OR
- five years of demonstrated experience in the field

Information about the GRE is available from the Educational Testing Service, Princeton, NJ 08540. The MAT is given by the testing service of most colleges and universities and may be taken by appointment. Applicants should plan well in advance so that examination results are available when needed to support an application for admission.

An application consists of the following items:

- Application Form
- Statement of Purpose
- Application Fee
- Transcripts
- Admissions Test Scores
- Three (3) letters of recommendation; for applicants who have been in school in the last 5 years, at least two (2) letters must be academic references.

Braille editions of the GRE and the MAT can be obtained from:
The University of Alabama Test Service
Box 870108
Tuscaloosa, AL 35487-0108.

For further information and to submit an application, go to the Graduate Application Center online.

**Exceptions to Admissions Policy**

Under exceptional circumstances, an applicant may be considered for admission if he or she meets either the GPA requirement for regular admission (GPA of 3.0) or the entrance exam score requirement as outlined above. If such an applicant is admitted, he or she will need to obtain permission to continue in the program, after the first 12 semester hours of graduate-level work have been completed. Permission to continue is earned by achieving a GPA of “B” or better (3.0) in the first 12 semester hours. If the 12 hours are completed in a term in which the total credits exceed 12, the evaluation is made on the basis of all graduate-level work completed at the end of that term of enrollment. Students admitted under this circumstance who do not meet the 3.0 requirement after their first 12 hours of graduate-level work will not receive permission to continue in their graduate program, and will be dropped from the program.

**Nondegree Admission Requirements**

A student may be admitted as a non-degree student if that person has either a 3.0 undergraduate GPA or an acceptable test score: 50th percentile on the MAT or 300 on the GRE general test. No more than 12 hours may be taken as a non-degree student and applied to a degree.
Degree Requirements

Candidates for the MLIS degree must earn a minimum of 36 semester hours of credit, completing all work with a grade average of "B" or better. A thesis is not required. All MLIS students must complete, as part of the minimum 36 hours, the following 18 hours of required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 500</td>
<td>Organization Of Information</td>
<td>3</td>
</tr>
<tr>
<td>LS 501</td>
<td>Intro Library Info Study</td>
<td>3</td>
</tr>
<tr>
<td>LS 502</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>LS 507</td>
<td>User Ctr Info Services</td>
<td>3</td>
</tr>
<tr>
<td>LS 560</td>
<td>Information Technologies</td>
<td>3</td>
</tr>
<tr>
<td>LS 508</td>
<td>Management Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LS 530</td>
<td>Public Libraries</td>
<td>3</td>
</tr>
<tr>
<td>LS 531</td>
<td>Academic Libraries</td>
<td>3</td>
</tr>
<tr>
<td>LS 532</td>
<td>School Media Centers</td>
<td>3</td>
</tr>
<tr>
<td>LS 533</td>
<td>Spec Libr &amp; Info Centrs</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 18

Thesis and Coursework Plans

Two plans are offered for the master’s degree:

Plan I: Thesis

Candidates for the master’s degree under the thesis plan must earn a minimum of thirty-six hours of credit, including fifteen hours of required courses, a three-hour required management and administration course, and six hours of thesis credit (LS 599); no more than six hours of thesis credit may be counted toward the degree.

Intent to elect the thesis option must be formally declared within the first nine hours of enrollment in graduate LIS courses. The declaration of intent must indicate the subject area of the research and the faculty member who has agreed to direct the thesis.

The student must identify a three-person thesis committee, to consist of at least two full-time SLIS faculty members, at least one of whom must be a full member of the graduate faculty; a third committee member may be a faculty member from another department of the University, a faculty member from another institution, or a well-qualified practitioner. All committee members must hold appropriate Graduate Faculty status.

The student must obtain committee approval for a prospectus for the thesis project prior to enrolling in thesis credit; a formal defense of the prospectus will constitute the final examination for the MLIS degree.

The student must complete and successfully defend a thesis that meets the requirements established by the Graduate School. The thesis defense shall be made orally before the student’s thesis committee and will be open to the public.

Plan II: Coursework

Candidates for the master’s degree under the coursework plan must earn a minimum of 36 hours of credit, including 15 hours of required courses and a three-hour required management and administration course.

Transfer of Credit and Credit for Non-Letter Graded Courses

Graduate credit may be transferred from another regionally accredited university or may be elected from the offerings of other departments.

Thesis credit cannot be transferred from another university. No more than nine hours of credit can be applied toward the MLIS for any combination of graduate courses taken outside SLIS, directed research courses, internships, and thesis credit. These hours may be combined as follows:

Plan I: Thesis

Six hours of thesis credit and three hours of credit for directed research course or internship; or:

Six hours of thesis credit and three hours of approved credit for graduate work taken outside SLIS.

Plan II: Coursework

Six hours of approved credit for graduate work taken outside SLIS and three hours of credit for a directed research course or internship; or:

Six hours of credit for any combination of directed research courses and internships and three hours of approved credit for graduate work taken outside SLIS.

Time Limit

All requirements for the master’s degree must be completed during the six years (18 consecutive semesters) immediately preceding the date on which the degree is to be awarded.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I: Thesis. The subject chosen must be related to library and information studies and must be approved by the student’s thesis director, the student’s thesis committee, and the SLIS Director.

The thesis committee must include three individuals, including at least two full-time SLIS faculty members, at least one of whom must be a full member of the graduate faculty; a third committee member may be a faculty member from another department of the University, a faculty member from another institution, or a well-qualified practitioner. All committee members must hold appropriate Graduate Faculty status.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has posed troubling ethical questions. The
mission of the University's Institutional Review Board for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects, the principal investigator — normally the student — is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. Both the student and the thesis chair are responsible for completing Institutional Review Board training; guidelines for training can be found at http://ovpred.ua.edu/research-compliance/institutional-review-board-irb/.

The request forms for IRB approval can be accessed from http://ovpred.ua.edu/research-compliance/institutional-review-board-irb/.

### Application for Graduation

Each candidate for a master’s degree must apply for graduation through the Office of the Graduate School during the first week of the term in which requirements for the degree are to be completed. The form “Application for Degree” is required for this purpose, and must be completed online.

### Student Learning Outcomes for the MLIS

#### Teaching

Upon completing the SLIS MLIS program, all students should:

- have acquired a basic core of knowledge in the field: the creation and production, organization and access, selection and evaluation, preservation, dissemination and use of information
- understand the nature of professional ethics, display a committed professional attitude, value the role of professional associations, and be committed to individual professional development
- understand the opportunities and challenges of a variety of information settings, their functions and the users they serve and be able to approach the design and management of services and systems
- value teaching and service as ways to advance the field
- have knowledge of current research, an understanding of research processes and methods and an ability to analyze and critically evaluate research and apply it to professional duties
- understand the significance of concepts and contributions of other disciplines to library and information studies and the importance of library and information studies theories, principles, and concepts to other disciplines
- be aware of and sensitive to the impact of information practices, services, and programs on diverse, underserved and multicultural communities
- understand the appropriate technologies and their applications within particular contexts for the organization, retrieval, management, and dissemination of information
- be able to communicate cogently, clearly, and persuasively
- support the development and improvement of library and information services in general with special focus on the people of Alabama and the southeastern United States

#### Research and Creative Activities

SLIS faculty will:

- present the results of research, inquiry, and creative endeavors to peers at professional meetings and exhibitions
- undertake applied research projects including consulting assignments that augment and advance knowledge

### Service

To provide advice and assistance to libraries and information centers that help them enhance the services they provide, SLIS faculty and staff:

- undertake consulting assignments
- provide opportunities for faculty, staff, and students to participate in professional associations, to promote the profession and to assume leadership and policy-making roles
- along with students, participate in the work of the University and the School through service on committees and working groups

### Class A School Library-Media Certification

For admission to the Class A School Library-Media program, a candidate must have a valid bachelor's level or valid master's level professional educator certificate in a teaching field or a valid master’s level professional educator certificate in another area of instructional support. Effective June 1, 2017, two full years of full-time professional educational work experience in P-12 school system(s) is also required for admission.

Applicants with out-of-state licensure who are employed or seeking employment in another state are responsible for knowledge about professional licensure requirements in the prospective states. An applicant with out-of-state licensure who intends to apply for Alabama certification must first apply for the prerequisite certification in Alabama before applying for Class A School Library-Media certification in Alabama.

All applicants must have a criminal history background check as required by the Alabama Department of Education.

Students pursuing Library Media certification should refer to the State-approved program checklist to ensure that requirements are met. In addition to completing an approved program of study, the candidate is required to earn a satisfactory score on a comprehensive examination administered by the School of Library and Information Studies and earn a passing score on the Praxis for Library Media Specialist.

The approved program of studies for certification is as follows:

**Hours**

**Instructional support area**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 500</td>
<td>Organization Of Information</td>
<td>3</td>
</tr>
<tr>
<td>LS 501</td>
<td>Intro Library Info Study</td>
<td>3</td>
</tr>
<tr>
<td>LS 504</td>
<td>Media Prod &amp; Utilization</td>
<td>3</td>
</tr>
<tr>
<td>LS 507</td>
<td>User Ctr Info Services</td>
<td>3</td>
</tr>
<tr>
<td>LS 532</td>
<td>School Media Centers</td>
<td>3</td>
</tr>
<tr>
<td>LS 542</td>
<td>Instruct Design &amp; Dev</td>
<td>3</td>
</tr>
<tr>
<td>LS 560</td>
<td>Information Technologies</td>
<td>3</td>
</tr>
<tr>
<td>LS 572</td>
<td>Intern Sch Media Cntrs (requires a minimum of 300 clock hours)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Foundation of professional studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BEF 503</td>
<td>History Of Amer Edcun</td>
<td>3</td>
</tr>
<tr>
<td>BEF 507</td>
<td>Sociology Of Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 534</td>
<td>Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 575</td>
<td>Found Edcun Through Film</td>
<td>3</td>
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<tr>
<td>BEF 607</td>
<td>Readings In Soc Of Ed</td>
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<tr>
<td>BEF 650</td>
<td>Critical Race Theory In Educ</td>
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The University of Alabama 2018-2019
BEF 667 Multicult Soc Ed Leadership 3
BEF 681 Ethics And Education 3

Research
LS 502 Research Methods 3

Additional Requirements
SPE 500 is required if a special education survey course was not part of the undergraduate program or another graduate program.
LS 520 or Early Child Lit Mat & Story Pr 3
LS 521 Matl & Services Childn
LS 522 Matl Serv Young Adults 3

Total semester hours 36-39

If courses equivalent to any of these required courses have been taken previously, substitutions may be made, with the approval of a faculty adviser.

For candidates admitted to the Class A Library Media program July 1, 2017, and thereafter, a minimum GPA of 3.25 on all courses in the Alabama State Board of Education approved library media program is required for certification.

Communication & Information Sciences (CIS), Ph.D.

The collegewide doctor of philosophy degree in the College of Communication and Information Sciences is designed to:

- prepare communication scholars for positions of leadership in education, public service, the media, libraries, information-management positions, and other communication-related fields
- add to a student’s usable body of knowledge in a chosen area of specialization within the field of communication and information sciences
- develop each student’s research, teaching, and professional capabilities
- promote scholarly achievement and advancement of knowledge in the communication and information science disciplines, through basic and applied research

Requirements for the Ph.D. Degree in Communication and Information Sciences

Admission Criteria
Applicants to the doctoral program in communication and information sciences must meet the admission criteria of the Graduate School of The University of Alabama and those stated below.

An applicant whose credentials meet the following minimum criteria may be considered for regular admission to the doctoral program in communication and information sciences:

- An undergraduate grade point average (GPA) of 3.0 overall, 3.0 for the last 60 semester hours in a degree program, or 3.0 for a completed graduate degree program.
- A combined score of 300 on the verbal and quantitative portions of the Graduate Record Examination (GRE).

International applicants must score at least 90 on the TOEFL iBT language proficiency exam and also score at least 24 on the speaking and writing sections of the iBT exam. International applicants who meet these criteria may also be invited to participate in a videoconference with the college application review committee.

Applicants may be considered for admission on a permission-to-continue basis if they meet either the GPA criterion for regular admission or the GRE score criterion for regular admission.

Coursework
Number of semester hours required in the program: Forty-eight to 60 hours, as determined by a student’s program advisory committee. An additional 24 hours of dissertation research will be taken, usually following admission to candidacy.

The student’s program advisory committee determines, in consultation with the student, the specific courses the student must take to satisfy program and research requirements.

Core requirement: Foundations. CIS 610 Foundations Doctoral Study CIS, is required of all students.

Core requirement: Theory. Students must complete two of the following four courses:

- CIS 604 Mass Communication Theory
- CIS 605 Cultural Critic Rhetoric Theory
- CIS 606 Knowledge & Information Theory
- CIS 607 Theory Construct & Epistemology

The specific courses from among these four are to be selected by the student in consultation with the student’s program advisory committee. It is strongly recommended that students aim to have at least one of their two required theory courses be the single most appropriate theory course in the context of the student’s area of focus (see below for details about focused areas of study).

Core requirement: Research methods. Students must complete six hours of research methods coursework. The specific courses are to be selected by the student in consultation with the student’s program advisory committee. The College offers three research methods courses, at least one of which is likely to be among the student’s most appropriate options for fulfilling the research methods requirements. These courses are:

- CIS 603 Quantitative Research Methods
- CIS 608 Qualitative Research Methods
- CIS 609 Humanistic Research Methods

However, if the student’s program advisory committee recommends or stipulates the student complete research methods courses other than CIS 603, CIS 608, and CIS 609, the student need not complete any of these three courses.

Focused Areas of Study. Students will consult with their program advisory committee to identify a focused area of study. A minimum of 18 non-dissertation credits must be designated by the program advisory committee as appropriate for the student’s focused area of study.

Cognate. Students will consult with their program advisory committee to identify a cognate area. Students may fulfill their cognate requirement through courses completed within or outside the College of Communication and Information Sciences. A course must be in an area outside the focused area of study to count toward fulfilling the cognate requirement. A minimum of nine non-dissertation credits must be designated by the program advisory committee as appropriate for the student’s cognate area.

Additional/elective credits. Many students will find they have room in their program of study for one or more additional/elective courses
after they have met the minimum core, focused area of study, and cognate requirements. Students will consult with their program advisory committee to identify appropriate additional/elective courses.

**Dissertation.** The University of Alabama Graduate School requires that students complete 24 hours of dissertation credit. In the College of Communication and Information Sciences, dissertation credits are completed by enrolling in CIS 699: Dissertation Research.

**Summary of required credits.** In sum, students allocate credit hours as follows:

- Core: 15 hours
- Focused area of study: 18-30 hours
- Cognate: 9-15 hours
- Additional/elective: 0-18 hours
- Dissertation: 24 hours

**Other requirements.** In addition to the credit hour and coursework requirements specified above, the following policies apply:

- A minimum of 36 hours of coursework must be completed after enrollment in the CIS doctoral program.
- Up to 12 of these 36 hours may be transferred from a student’s masters program if approved by the student’s program advisory committee. Credits so approved must have been earned within a period of no more than six years prior to admission.
- A minimum of 24 hours of coursework must be at the 600 level. The remainder of hours of approved graduate course credit must be at the 500 or 600 level. No cross-listed 400/500-level course may be taken in the doctoral degree program. A maximum of six hours of 400- or 400/500-level credit may be transferred if completed as part of a master’s degree program.
- Each student must complete a minimum of three CIS doctoral seminar courses, which include all courses numbered CIS 650 through CIS 672. No doctoral seminar class that may be deemed by the student’s program advisory committee to count toward fulfilling the research methods requirement may be counted toward this minimum number of three doctoral seminar courses. In other words, if a program advisory committee approves a doctoral seminar course as a research methods course, this course cannot also be counted toward meeting the requirements for three doctoral seminar courses.

**Required Plan of Study**

By the time each doctoral student has completed 30 graduate semester hours of UA and/or transfer work toward the degree, the student must have a doctoral Plan of Study approved by the dean of the University of Alabama Graduate School. Failure to obtain approval of the Plan of Study by the completion of 30 hours may result in the student’s having a hold placed on future registrations.

Students admitted to the doctoral program may be required to complete additional coursework to be prepared for doctoral-level (600-level) study and research in communication and information sciences, at the discretion of the student’s program advisory committee or the CIS associate dean for graduate studies.

Doctoral students who begin the program with incomplete master’s theses must complete the master’s thesis during the first year of doctoral study. Students must provide official transcripts of their master’s degree work as evidence that their master’s degree has been awarded. If a student fails to provide the transcript, the College may refuse to administer the PhD preliminary examination and/or may withdraw financial support. The Graduate School may nullify the doctoral program admission.

**Scholastic requirements**

A student must maintain cumulative grade point average of at least 3.00 on a 4.00 scale for graduate courses undertaken following admission to the doctoral program. A doctoral student whose grade point average falls below 3.00 at any time after 6 semester hours have been completed will be placed on academic warning by the Graduate School and the College of Communication and Information Sciences.

- A student on academic warning will not be permitted to apply for admission to candidacy and may not hold an assistantship.
- A student who earns a grade below “B” in more than two courses or who remains on academic warning for more than one semester is subject to removal from the program at the discretion of the college’s associate dean for graduate studies.

Students who are dropped from the program may petition the college for readmission. The college may in turn make a request to the dean of the university Graduate School for approval of the student’s readmission.

**Preliminary examination**

A preliminary examination is required of all doctoral candidates. The examination is given after all required course work and other work prescribed by the student’s Program Advisory Committee has been completed. The examination must be completed at least three months before the degree is awarded.

The student demonstrates, through written and oral examinations, a capacity to understand, synthesize, and apply communication theory and research techniques, as well as demonstrate knowledge of the pertinent literature, issues, and recent advances in the student’s area of focus and cognate area of study. In other words, the examination must cover: (1) theory, (2) research methods, (3) the student’s area of focus, and (4) the student’s cognate area.

The preliminary examination is a written examination administered by the student’s program advisory committee, which may call on other faculty members associated with the student's coursework for assistance in preparing the examination. Sixteen hours are set aside for the examination—four hours for each division (theory, methods, focused area of study, and cognate). The examination is to be completed within a two-week period.

The oral portion of the examination is required of all students and will be scheduled as soon as possible following the completion of the written examination. Immediately following the oral examination, the examination committee will determine whether the student has passed, must perform additional work to demonstrate competency in one or more areas of the examination, or has failed the examination. When additional work is required, the examining committee may choose to administer another oral examination. In the case of a clear failure, re-examination must take place after six months and before twelve months have elapsed. Each of the four portions of the preliminary examination may be taken only twice. The examining committees will rule either pass or fail on the second examination.

**Admission to candidacy**

A student is certified by the dean of the UA Graduate School for admission to candidacy for the PhD in Communication & Information Sciences after meeting the following requirements:

- completion of the program of coursework and other requirements prescribed by the student’s program advisory committee, approved
by the CIS associate dean for graduate studies, and approved by the dean of the UA Graduate School on the Plan of Study and Admission to Candidacy forms
• demonstration, by passing the preliminary examination, of competence in the theory, research methods, the focused area of study, and the cognate
• a successful defense of a dissertation proposal
• approval by the UA Graduate School of the Admission to Candidacy for the Doctoral Degree

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the UA Graduate School as soon as possible after passing the comprehensive (preliminary) examination.

Dissertation committee
Following a successful completion of preliminary examinations, the candidate for the PhD in Communication and Information Sciences must form a dissertation committee.

The dissertation committee is composed of at least five members. The Graduate Faculty of the College of Communication and Information Sciences must be represented by at least three members. A fourth member may be from CIS or from a college or school outside the College of Communication and Information Sciences, but he or she must have graduate faculty status. A fifth member, to be appointed by the Graduate School of the University, must be a member of the Graduate Faculty in a division other than the College of Communication and Information Sciences; this so-called “Outside Member” represents the UA Graduate Faculty at large. Only full members of the Graduate Faculty may chair doctoral dissertations.

At least one committee member other than the chair must have full membership in the Graduate Faculty of the College of Communication and Information Sciences. All other members may be associate members. However, no more than one temporary member of the Graduate Faculty may serve on any given committee.

The UA graduate dean’s approval of the proposed dissertation committee must be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

Dissertation
After successful completion of the preliminary examination, degree candidates must submit a written proposal to their dissertation committee.

The proposal describes the importance of the proposed topic, outlines the hypotheses to be evaluated, provides and overview of relevant literature, specifies the methodology to be used, and lays includes a timetable for completion of the project. The dissertation must make a significant original contribution to the field of communication and information sciences and must demonstrate the candidate’s ability to report that research in writing in a clear, comprehensive, and scholarly manner.

The student must submit the proposal, and later the dissertation, to the committee at least 14 days prior to the defense. After the proposal has been circulated among the members, the student’s dissertation committee meets for the student’s oral defense of the proposal. The candidate must complete the dissertation and all other degree requirements within seven years of the date of admission to the doctoral program.

Final examination
The candidate must present a copy of the final draft of the dissertation to each committee member at least two weeks before the scheduled date of the final examination. After the dissertation has been completed and accepted by the candidate’s dissertation committee for purposes of the examination, the candidate will be given a final oral examination by the dissertation committee.

The final examination is concerned primarily with the research embodied in the dissertation and with the field in which the dissertation lies, but it may extend over the student’s entire primary field of study. The final oral examination is governed by the rules of the Graduate School of the University of Alabama.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage.

Electronic submission of theses and dissertations (ETD) is required. Consult the ETD website for details of ETD submission.

Expedited Admission Track into the CIS Doctoral Program
The Expedited Admission Track into the CIS doctoral program allows highly qualified students to be admitted into the doctoral program after they complete an undergraduate degree. Such students will begin graduate coursework in a specific master’s degree program of the College and complete their graduate degree as College-wide doctoral candidates, without having to reapply for admission or apply to transfer credit hours from the master’s program into the doctoral program. In short, if admitted on the expedited track, candidates will be able to count as many as 24 hours completed in their master’s program of study—rather than the college-stipulated maximum of 12 hours—toward their doctoral degree.

Students admitted on the expedited track would be required, upon completion of 24 hours of graduate coursework, to take a comprehensive, qualifying examination administered by their academic advisor, program committee, and two representatives of the doctoral program selected by the CIS associate dean for graduate studies. The doctoral program representatives will lead the committee’s determination of the overall quality of the comprehensive exam answers. If the candidate passes the qualifying examination, the candidate will be approved to continue in the CIS doctoral program. The completed 24 credit hours then also will apply toward the minimum of 48 hours of graduate course work required for the PhD. Upon completion of graduate work, such candidates will receive the master’s degree, along with the PhD. Students deemed not to have demonstrated sufficient mastery to qualify for continuing in the doctoral program will be permitted to complete the remaining requirements for their designated MA program and receive that degree from the College upon its completion.

Criteria for Expedited Admission Track
Students who wish to apply for the expedited admission track must meet the following criteria:
• Hold regular admission status for a specific College master’s program and for admission into the PhD program
• Submit a statement of purpose indicating interest and commitment to graduate work through the doctoral level
• Upon completing 24 hours of graduate coursework, passing a comprehensive, qualifying exam for continuing toward the doctoral degree
Earn a certificate of completion, or equivalent, for the master’s program, whereupon official admission into the doctoral program would be recognized.

The UA Graduate School stipulates that the doctoral degree requires a minimum of 48 hours of graduate coursework and 24 hours of dissertation. The expedited track meets this requirement. It is recommended that during their master’s program matriculation students complete 600-level CIS classes likely meet the theory and research methods requirements for the doctoral degree. See the Coursework section above for details about theory and research methods requirements in the CIS doctoral degree program. Also, please note in the Coursework section above the policy that doctoral students must complete at least 24 hours in 600-level classes. This is very feasible for expedited track students so long as they plan their master’s program of study with this in mind.

Faculty

Associate Dean for Graduate Studies
William Evans

Graduate faculty
Cory Armstrong
Meredith M. Bagley
Matthew Barnidge
Jennifer Becker
Beth S. Bennett
Andrew C. Billings
Kimberly L. Bissell
Laurie Bonnici
Robin Boylorn
Dianne Bragg
Nancy Brinson
Adam Brooks
Kenon Brown
Michael Bruce
Matthew D. Bunker
John Burgess
Jeremy G. Butler
William Sim Butler
Glenda Cantrell
Heather J. Carmack
Alexa Chilcutt
Chandra Clark
Nicholas Corrao
George L. Daniels
Anna Embree
Robert N. Gaines
William J. Gonzenbach
Karla K. Gower

Jennifer D. Greer
Darrin Griffin
Jameson Hayes
Jennifer Hoewe
Suzanne Horsley
Peter Jensen
Hyoungkoo Khang
Eyun-Jung Ki
Terry Kinney
Margot O. Lamme
Leah E. LeFebvre
Laura L. Lemon
Wilson H. Lowrey
Steven L. MacCall
Mary M. Meares
Steve K. Miller
Carol Bishop Mills
Tiffany Mohr
Jamie C. Naidoo
Mark D. Nelson
Jessy Ohl
Elliot T. Panek
M. Scott Parrott
Cynthia C. Peacock
Joshua R. Pederson
Joseph E. Phelps
Ann E. Prentice
Rachel A. Raimist
Robert B. Riter
Christopher Roberts
Brett Sherrick
Ethan C. Stokes
Miriam E. Sweeney
Alyxandra Vesey
Kristen J. Warner
Jeffrey Weddle
Steven Yates
Shuhua Zhou

College of Community Health Sciences

Population Health Sciences, MS (p. 379)
The courses listed below are open to qualified graduate students. Medical school and family practice residency curricula are published separately from this catalog.

CHS500 Rural Envir/Occup Health
Hours 3
The goal of the course is to help the student recognize environmental and occupational health hazards in the rural setting, the effects of exposure to these hazards, and preventive measures that should be taken to avoid them.

CHS510 Health Economics
Hours 3
A course designed for graduate students interested in understanding the importance of health economics on public policy. Topics include the supply and demand of health care, health insurance, consequences of information asymmetry, health technology assessment, comparison of national health care systems, and behavioral economics.

CHS520 Basic Epidemiology
Hours 3
A course for students in health-related fields. The basic epidemiologic approach is developed; principles and methods are learned through readings (text and published studies), lectures, discussions, and the preparation of a research design by each student.

CHS521 Introduction to Clinical Epidemiology
Hours 3
The purpose of this course is to teach the principles and practice of epidemiology as a science discipline. Objectives: 1. Understand the basic principles of epidemiology. 2. Conduct a critical appraisal of epidemiologic studies. 3. Be knowledgeable about the various types of study design. 4. Describe how epidemiology relates to public health and medical practice.

CHS522 Community Clinical Proc
Hours 3
A combination of scheduled sessions and fieldwork activities. The fieldwork will consist of visiting with an assigned rural advisor, completing a rural community assessment, and assisting with community health screenings and education programs.

CHS523 Indep Stdy Community Med
Hours 1-6
No description available

CHS524 Essentials of Population Health
Hours 3
An introductory graduate level course designed to teach learners to examine health issues from a population health perspective.

CHS525 Biostatistics
Hours 3
A course in statistical methods and concepts particularly appropriate for biomedical research and health-related subjects. Topics include descriptive statistics, probability, parametric and nonparametric procedures for one-group and two-group problems, contingency tables, and computer applications.

CHS527 Health Policy & Planning
Hours 3
Designed to assist the student in understanding the planning process and factors that influence and determine policy decisions.

CHS530 Principles of Stress Management
Hours 3
The purpose of this course is to help Rural Community Health and Agricultural Safety & Health graduate students, learn to identify, understand, and manage the stressors that most affect their lives. Students will be exposed to the latest research findings on the physical, psychological, sociological, and spiritual aspects of stress. In addition, students will be presented with an in-depth array of coping skills, including relaxation techniques, behavior change interventions, and strategies for defusing physiological arousal. Students will be introduced to the tools they need to cope with stress in an increasingly stressful world. Special emphasis will be placed on clinical concerns (e.g., methods for alleviating stress) for rural populations.

CHS532 Comm Clinical Process II
Hours 3
A continuation of studies from CHS 522 that will include an introduction to basic physical assessment techniques and continuation of a community project.

CHS534 Interprofessional Health Communication
Hours 3
This interprofessional course focuses on understanding roles, how to work in a team using a common language; presenting information that other team members can understand, contributing to safe and effective systems. Identify basic concepts of effective teamwork among professions with an emphasis on communication and teamwork.

Prerequisite(s): • 3.0 undergraduate GPA (minimum) for undergraduate degree or last 60 hours • Bachelor’s degree from a regionally accredited college or university • Acceptance into the certificate program

CHS540 Rural Community Interaction I
Hours 3
The purpose of this course is to introduce participants to real life and practical application and topics related to rural medicine, with an emphasis on minority populations. The course is divided into two parts: a shadowing experience with a primary care provider working in a rural or underserved setting, and a seminar series. Additionally the course will include a special service learning project in order to further expose students to practical application of issues and topics in rural or underserved communities.

CHS541 Rural Community Interaction II
Hours 3
The purpose of this course is a continuation of Rural Community Interaction I and introduces participants to additional real life and practical applications and topics related to rural medicine, with an emphasis on minority populations. The course is composed of two class projects of planning, implementation, and evaluation of a community screening event to be selected by the class. Each student will also complete a final paper (5 double-spaced typed pages) describing their cumulative experiences including lessons learned.

Prerequisite(s): CHS 540
CHS590 Clinical Correlations Biochem  
Hours 3  
The purpose is to study biochemical principles in a clinical context and to observe the process of medical information assembly and reasoning in clinical care.  
Prerequisite(s): BSC 550

CHS620 Ind Study In Prev Med  
Hours 1-5  
Research or directed reading in community medicine topics, including health care delivery, preventive medicine, and health policy aspects of other related topics.

CHS622 Directed Research in Community Health  
Hours 3  
An advanced applied-research course designed to develop skills in the analysis and evaluation of health problems of community interest.  
Prerequisite(s): CHS 520 and CHS 525

CHS625 Advanced Epidemiology  
Hours 3  
No description available

CHS627 Multivar Meth Hlt Stats  
Hours 3  
Emphasis is on application and interpretation of statistical software that performs techniques such as multivariate analysis of variance, discriminant analysis, logistic regression, log-linear modeling, and factor analysis.

CHS637 Adv Multivariate Meth Biostat  
Hours 3  
Topics will include exploratory and confirmatory factor analysis, path analysis, structural equation models and other topics of interest to students.  
Prerequisite(s): CHS 627

CHS650 Outcomes Research in Population Health  
Hours 3  
This course examines the methods utilized in the design, implementation, and evaluation of research studies implemented in a healthcare setting. In this course, you will explore various research designs that can be used to evaluate studies with outcomes at the individual and organizational level. Both naturalistic (or observational) and experimental designed will be covered throughout the course. Various analytic approaches that are appropriate to examine the design, implementation, and evaluation of studies in the medical setting will be applied. Furthermore, students will be expected to develop a research protocol that demonstrates the mastery of core competencies obtained throughout the semester.

CHS701 Clinical Clerkship  
Hours 18  
No description available

CHS702 Clinical Clerkship  
Hours 18  
No description available

CHS801 Clinical Clerkship  
Hours 18  
No description available

CHS802 Clinical Clerkship  
Hours 18  
No description available

CHS900 Residency  
Hours 12  
No description available

Population Health Sciences, MS

Population health is an interdisciplinary field that integrates clinical care and public health practices to prevent, reduce, and manage human disease. Population health achieves these goals by using patient-centered approaches to understand the needs of a diverse clientele and by incorporating a value-based care system.

The changing landscape of health care will require intellectual investments in the future of health. Those interested in acquiring a degree in population health from The University of Alabama will benefit from a value-based culture that embraces diversity, interdisciplinary collaboration, and innovative thinking. The Master of Science in population health sciences at UA is designed to suit the educational needs of professionals from diverse backgrounds:

- Social and behavioral scientists interested in health outcomes research
- Providers who would like additional training in the structure and delivery of health care in an evolving system
- Hospital administrators and office managers looking to expand current roles and responsibilities in clinical settings
- Anyone in the health care field interested in identifying best practices to adhere to value-based payment systems in an effort to increase reimbursement rates and improve health outcomes

Unique attributes of our program:

- We offer convenient online classes and flexibility for students who wish to pursue a degree while working.
- Our program is specifically designed to prepare graduates to succeed in a value-based healthcare system.
- We have a diverse faculty with backgrounds in medicine, nursing, public health, psychology, business, exercise, health education, and health policy.
- A variety of electives and two program focus areas allows tailoring of the program to your individual interests.
- Our courses will provide hands-on training in classes that range from qualitative research methods to data mining
Masters Degree Programs in Education

The College of Education offers graduate work for the master of arts degree in counselor education (school counseling, clinical mental health counseling and rehabilitation counseling); educational leadership; higher education administration; educational psychology; general educational psychology; educational psychology: school psychometry; elementary education; human performance; secondary education (music education is available as a specialization within secondary education); and special education.

The rules of The University of Alabama Graduate School pertaining to transfer of credit, academic progress, graduation requirements, admission to candidacy and time limits apply to all students in College of Education masters degree programs and are found in the Degree Requirements section of this catalog.

Masters Programs Prerequisites

The prerequisites for programs leading to the master of arts degree in education include:

- the completion of an appropriate baccalaureate curriculum, and in most programs
- professional teacher certification.

For a student in music education, audition, ensemble performance or teaching sample and music history and music theory testing are required prior to or during the first 12 hours of graduate study.

For the Class A Reading Specialist program, two full years of full-time classroom teaching experience are required. Additionally, the Praxis for Teaching Reading is required for those with prerequisite certification in a teaching field other than Elementary, Early Childhood or Collaborative (K-6).

Effective July 1, 2017, two full years of full-time, acceptable professional educational work experience will be required for admission to Class A instructional support programs (School Counseling, School Psychometry and Sport Management—also includes Library Media in the College of Communication and Information Sciences).

For a student in educational leadership, a valid Alabama Class B Professional Certificate in a teaching field or a valid Alabama Class A Professional Certificate in a teaching field or instructional support area and three full years of full-time, acceptable professional educational experience in a P-12 setting, which must include at least one full year of full-time P–12 teaching experience, are required. In addition, students preparing for positions in educational leadership are required to complete screening procedures, including special tests, interviews and portfolios.

Masters Degree Requirements

There are two study plans available to students pursuing the master of arts degree. Candidates for the masters degree under Plan I must earn a minimum of 24 semester hours of credit in coursework and must write a thesis. Candidates for the masters degree under Plan II must earn a minimum of 30 semester hours of credit; a thesis is not required.

Masters degree programs leading to professional certification normally require a minimum of 30 semester hours. Nontraditional, alternative certification programs requirements vary; however, they normally require 39–45 graduate hours in addition to any of the applicant’s undergraduate deficiencies. Courses that are taken for undergraduate credit may not be repeated for graduate credit. In compliance with regulations established by the Alabama Department of Education and outlined in
the Alabama Administrative Code, coursework used to meet Class B certification requirements may not be used to meet requirements for Class A certification in any teaching field or area of instructional support.

A student completing requirements for a masters degree during a semester or summer session who does not need a full class load to meet those requirements may, with approval of the advisor and department head, register for additional courses toward a Class AA Professional Certificate, not to exceed the maximum prescribed class load.

Additional details on all other degree requirements are in the Degree Requirements section of this catalog and may be outlined in the individual program descriptions in this catalog. Under each plan (including the nontraditional, alternative program) the student must pass a comprehensive assessment in the field(s) of study at an appropriate time toward the close of the student’s work. The assessment may include, but may not be limited to, an oral exam.

Nontraditional, Alternative Initial Teacher Certification
The College of Education has been approved by the state board of education to offer special programs of study leading to the masters degree for degree holders who have not previously completed a teacher-education program. Admission to these programs requires an acceptable score on an entrance examination—the GRE General Test or the Miller Analogies Test (MAT)—and a minimum 3.0 grade point average for all previous college-level work attempted. Individuals may be considered for admittance if the graduate admission test score or GPA does not meet the above criteria. For admission to an Alternative Class A program, effective July 1, 2017, and thereafter, one must have earned a bachelor’s degree with a minimum, overall GPA of 2.75 or a master’s degree (or higher) with a minimum GPA of at least 3.0.

Also for admission, effective September 1, 2017, applicants to alternative certification programs must earn passing scores on the Praxis Core Academic Skills for Educators Tests of mathematics, reading, and writing. Information about the Praxis Core Tests is available online at https://www.ets.org/praxis/register//centers_dates or in Student Services, 104 Carmichael Hall. [NOTE: Individuals who earned passing scores on all three components of the previously allowed Basic Skills tests prior to September 1, 2017, may use those scores prior to September 1, 2022, in partial fulfillment of requirements for admission to an Alternative Class A program.]

Individuals applying to alternative initial teacher certification programs must also meet the minimum qualifications that are expected of candidates entering and completing undergraduate (Class B) certification in the same discipline. This usually means minimum GPA requirements in the core curriculum as well as minimum GPA requirements within the disciplines in which the applicant is seeking certification. Other requirements, such as completion of writing tests, passing scores on the Praxis Core Tests, and other screening associated with undergraduate certification, must be completed before formal admission to the alternative teacher education program. Some additional undergraduate work may also be required for admission. In addition to admission to the Graduate School, each prospective student must secure an appropriate transcript evaluation letter from personnel in the Office of Student Services and Certification, 104 Carmichael Hall. Students may not complete more than five approved program courses prior to unconditional admission.

Nontraditional, alternative certification programs are available in elementary, English for speakers of other languages (ESOL), foreign languages, music education, physical education, secondary education (most fields), and special education (collaborative, early childhood special education, gifted, and multiple abilities).

To graduate, students in these programs must complete the required semester hours in specific graduate courses. Upon completion of an Alternative Class A (master’s level) program, the student is eligible to be recommended for an Alabama Class A Professional Educator Certificate. For most programs, no more than 12 semester hours of graduate courses may be completed in a nontraditional, alternative program before the removal of all admission deficiencies, unless special permission is granted by department heads in conjunction with personnel in the Office of Student Services and Certification, 104 Carmichael Hall. A student with a master’s or higher degree in a secondary teaching field (or K–12 in music) generally may apply up to 12 semester hours from that degree to the fulfillment of teaching field requirements.

Clinical Placements
All Class A and Alternative Class A programs require extensive field experiences in diverse settings. The majority of field experiences must occur in P-12 schools, and at least half of the field experiences shall be in the candidate’s teaching field or area of instructional support. These placements are in the greater Tuscaloosa area (with the exception of music education and distance learning) in order to facilitate supervision of students. For Early Childhood Special Education and Early Childhood programs, field experiences shall include placements in at least two of the three main types of early education settings: P-3 classrooms, child care centers and homes, and Office of School Readiness programs. With approval, individuals who are employed in positions appropriate to the area of their current program may complete field experiences on the job, but those experiences must be planned with specific purposes and assessment.

All clinical placements in the College of Education relating to teacher certification are coordinated through the Office of Clinical Experiences. For students in the Class A Instructional Leader program, internships are coordinated through the Department of Educational Leadership, Policy, and Technology Studies.

Professional Liability
Students enrolled in College of Education courses that require a clinical placement are required to provide proof of professional liability insurance before being allowed to participate in a clinical placement. Professional liability insurance may be purchased through an independent insurer or is available to students who are members of the Student Alabama Education Association (SAEA), the Council for Exceptional Children (CEC), or Collegiate Music Educators National Conference (CMENC). Further information and membership applications may be obtained from the Office of Clinical Experiences.

Teaching Internship Requirements
The teaching internship (formerly called student teaching) is one of the most important experiences College of Education students have. It is generally regarded as the culminating activity of one’s preparation to become a teacher.

At The University of Alabama, the internship is a full-semester, full-time assignment and must be taken in residence.

Both alternative (nontraditional, fifth-year) and graduate students must file internship applications with the Office of Clinical Experiences in 105 Graves Hall during the semester preceding the semester of the planned internship. The application process begins by attending a mandatory application session, which is held the first Wednesday in October for spring-semester interns and the first Wednesday in March for fall-semester interns. The time, date, and place of the application session
are announced at the beginning of each semester. The deadline for filing applications for a spring-semester internship is October 31; for a fall-semester internship the deadline is March 31.

Students may apply to enroll for an internship if they meet the following criteria:

- The student must have completed all courses in the major or majors, or must secure written permission to enroll for an internship from the appropriate department head.
- The alternative master’s student must show proof of a passing score on the appropriate Praxis assessments.
- The traditional master’s student must show proof of a passing score on the appropriate Praxis subject assessment(s) if seeking certification in an area which differs from current certificate.
- The student must have achieved a minimum grade point average of 3.0, both for all University of Alabama courses attempted and for all University of Alabama courses and transfer courses combined.
- The student must have achieved a minimum grade point average of 2.75 in each major, both for University of Alabama courses in each major and for combined University of Alabama courses and transfer courses in each major.
- The student must have achieved a minimum grade point average of 2.75 for professional education coursework.
- The student must have completed all methods courses and appropriate professional coursework with grades of "C" or better.
- The student must have removed from the transcript any grade of incomplete ("I") recorded in required courses; grades of incomplete are treated as grades of "F."

**Registration for Internship Credit Hours**

Graduate students are required to register for the number of internship credit hours specified by their program. In some programs, graduate students may be allowed to choose a 6-hour registration or a 9-hour registration; course requirements are the same whether 6 hours or 9 hours are taken. Graduate students whose program requires two internship placements should register for two sections of internship (3 hours per section or 4.5 hours per section). Students enrolled for internship must not expect to be enrolled in other courses while interning.

**Policy on Internship Placements**

All internship placements are coordinated by the College of Education Office of Clinical Experiences. Placement sites are selected to ensure the quality of the internship experience and of the supervision provided by the cooperating teacher. All internship placements are in the greater Tuscaloosa area (with the exception of music education) in order to facilitate supervision of students by University of Alabama faculty or other designees of the department heads. Placements outside the greater Tuscaloosa area are made only if the director of clinical experiences and/or the department head determines that an appropriate local placement is unavailable.

With approval, a candidate admitted to a traditional Class A or an Alternative Class A program who is employed in an Alabama school may complete the internship in the candidate’s classroom if the candidate holds a valid Interim Employment Certificate (IEC or SAC) for the appropriate teaching field and assignment.

Students may apply for overseas internships if they meet certain criteria and if appropriate placements can be coordinated by the Consortium for Overseas Student Teaching (COST) and/or The University of Alabama. Applications for overseas internships are taken during January for placements for the next fall semester, and in May for placements the succeeding spring semester. Contact the Office of Clinical Experiences in 105 Graves Hall for additional information.

**Internship Assignments**

- Elementary education (K–6) interns will receive a placement in lower elementary (grades K-3) and upper elementary (grades 4-6) unless substantial field experiences are required and completed at both levels.
- Secondary education (6–12) interns with a comprehensive major may receive one or two internship assignments. If a candidate is seeking certification in two or more distinct teaching fields, an additional internship(s) will be required (unless the internship is defined according to the State-approved program.) If a candidate is seeking certification in two or more related fields, the internship may be divided between the two teaching fields.
- Special education-Collaborative (K–6 or 6–12) interns will receive a split internship assignment: half in a severe and profound setting and half in a mild to moderate setting. The placements will be divided according to their certification grade levels. For candidates seeking certification in BOTH Collaborative K-6 and Collaborative (6-12), the internship shall be divided between early childhood/elementary and middle/secondary grades.
- Special education-early childhood (P-3) interns will receive split placements in pre-K and K-3 in both general education and special education.
- MAP (P–6) interns will receive a minimum of four placements covering two semesters: The placements will be P-3 and upper elementary (4-6), and at least two of the following age groups: pre-K through age 3, age 3-5, and age 5-8. Placements will include children with and without identified disabilities.
- P–12 programs in physical education, foreign language, or music education interns should expect to have a split internship assignment with an elementary and a secondary school.
- English for Speakers of Other Languages (ESOL) interns should expect to have a split internship assignment between an elementary and a secondary school or if ESOL interns are employed full-time as an ESOL teacher in a public school setting, they may complete one semester of internship in their own classroom under the supervision of their building principal and a first-term summer semester of internship in an ESOL summer program coordinated by the Office of Clinical Experiences under the supervision of a University of Alabama ESOL faculty member.

**Summer Internship**

Summer internships are rarely available and then only to persons who hold an undergraduate degree and certification and have one or two years of successful teaching experience at the level and in the subject for which they are seeking certification (with approval from the department head). In addition, summer internship assignments are allowed only if an appropriate placement can be secured in the Tuscaloosa area and appropriate supervision can be provided. These conditions also apply to those seeking to update or renew their certification or add an additional endorsement to a current certificate. To apply for a summer internship, file an appropriate application with the Office of Clinical Experiences in 105 Graves Hall by March 31 of that year.
Educational Specialist Degree Requirements

The College of Education offers graduate work for the educational specialist (EdS) degree in counselor education; educational leadership; educational psychology; general educational psychology, educational psychology, educational research, and school psychology; elementary education, secondary education (music education is available as a specialization within secondary education); and special education.

The College of Education conducts its EdS programs in accordance with The University of Alabama Graduate School policies outlined in this catalog. The EdS degree requires a minimum of 30 semester hours of study beyond the master’s degree. (Students completing an EdS program and also expecting to receive an Alabama Class AA certificate for service in the public schools must complete a minimum of 30 semester hours and achieve a minimum 3.25 grade point average on all work attempted.) Effective for candidates admitted July 1, 2017, and thereafter, a cumulative grade point average of not less than 3.50 is required for all courses in a Class AA teaching field or area of instructional support.

Additionally, for admission to Class AA instructional support programs (School Counseling or School Psychology), at least two full years of full-time acceptable professional work experience is required. For admission to Class AA Teacher Leader, a minimum of three full years of full-time teaching experience in a P-12 setting is required.

Admission to the Graduate School does not mean that the EdS student is admitted to candidacy for the degree. Requirements for admission to candidacy for the EdS degree are the same as those for the master’s degree in the same area. A student should note any foreign language requirement. Each EdS student completes the Admission to Candidacy for the EdS Degree form that is on the Graduate School’s website and submits it to the Graduate School. The Graduate School must approve the student’s EdS plan of study prior to admission to candidacy for the degree.

A standard form for an EdS plan of study is not available at the Graduate School’s website, because each department or program participating in the EdS degree has established a framework of requirements for the degree that indicates the general structure of its program.

Additional information concerning the plan of study, admission to candidacy, admission and degree requirements may be outlined in the individual program descriptions, College of Education Admission requirements (p. 387) and the Graduate School’s Admission Criteria and Degree Requirements sections of this catalog.

See the Admission Criteria section of this catalog for more information.

Class AA Certification Programs

Graduate students seeking Class AA certification must enroll in and complete the EdS (or doctoral) State-approved program in that certification area in order to obtain University of Alabama recommendation for Class AA certification. A student who takes a course for credit in a master’s level program may not take the same course for credit in a sixth-year program. In compliance with regulations established by the Alabama Department of Education and outlined in the Alabama Administrative Code, coursework used to meet Class B or Class A certification requirements may not be used to meet certification requirements for Class AA certification in any teaching field or area of instructional support.

The College of Education conducts its EdS programs in accordance with The University of Alabama Graduate School policies outlined in the Degree Requirements (p. 20) section of this catalog. The EdS degree requires a minimum of 30 semester hours of study beyond the master’s degree. (Students completing an EdS program and also expecting to receive an Alabama Class AA certificate for service in the public schools must complete a minimum of 30 semester hours and achieve a minimum 3.50 grade point average on all work attempted.)

Clinical Placements

All Class AA programs require extensive field experiences in diverse settings. The majority of field experiences must occur in P-12 schools, and at least half of these shall be in the candidate’s teaching field or area of instructional support. These placements are in the greater Tuscaloosa area (with the exception of music education and distance learning) in order to facilitate supervision of students. For Early Childhood Special Education and Early Childhood programs, field experiences shall include placements in at least two of the three main types of early education settings: P-3 classrooms, child care centers and homes, and Head Start programs. Placements for students in the Class AA Instructional Leader program are coordinated through the Department of Educational Leadership, Policy, and Technology Studies.

All clinical placements in the College of Education relating to teacher certification are coordinated through the Office of Clinical Experiences.

Professional Liability

Students enrolled in College of Education courses that require a clinical placement should have professional liability insurance. Professional liability insurance may be purchased through an independent insurer or is available to students who are members of the Student Alabama Education Association (SAEA), the Council for Exceptional Children (CEC), or Collegiate Music Educators National Conference (CMENC). Further information and membership applications may be obtained from the Office of Clinical Experiences.

Doctoral Programs in Education

Programs leading to the doctor of philosophy (PhD) degree are offered in counselor education, educational administration, higher education administration, educational psychology, educational research, elementary education, human performance, instructional leadership, school psychology, secondary education (music education is available as a specialization within secondary education), and special education. Programs leading to the doctor of education (EdD) degree are offered in counselor education, educational administration, higher education administration, educational psychology, elementary education, instructional leadership, school psychology, secondary education (music education is available as a specialization within secondary education), and special education. The doctoral programs are designed for school personnel and others engaged in educational service and leadership.

A masters degree from an accredited institution is required for admission into most of the EdD or PhD program in the College of Education. Some program areas, however, will consider applicants with only a bachelor’s degree for admission into a 90 hour doctoral degree program. Other objective and subjective criteria are employed to select students whose success can be reasonably predicted. Some doctoral programs have further prerequisites for admission such as a professional teaching certificate and/or certain experience in teaching or a related activity. Those who wish to pursue doctoral study in the College of Education should communicate directly with the head of the department to ensure they meet the prerequisites for the area in which they wish to study.

In planning a program, doctoral students should follow these steps:
Declaration of Intent
If applicable, before establishing a doctoral committee, students must successfully complete a screening process in the department in which they wish to study. The applicant initiates the screening process by filing a declaration of intent form with the appropriate department head. The forms are available in the departmental offices.

Preliminary Conference
As part of the screening process in some departments, appropriate faculty members review information the applicant has supplied and interview the applicant. In this preliminary conference, consideration is given to factors such as the applicant's academic and professional background, test scores, personal traits, professional goals and aspirations, and other factors that pertain to the ability to complete the program successfully and continue a productive career. The applicant is notified of the decision of the screening committee by the department head within a few days following the preliminary conference. The department head notifies the College of Education Office of Student Services of the decision by returning the appropriately marked declaration of intent form.

Appointment of Advisor and Doctoral Program Advisory Committee
Students accepted for doctoral study will be asked to confer with the appropriate department head regarding the appointment of advisors and program advisory committees. Nominations for appointment to these committees are made by the program chairperson through the department head to the dean of the College.

EdD program advisory committees usually consist of a minimum of three members of the graduate faculty: a chairperson who represents the student's major area of study and who will be the major advisor for the student in program planning and research, and two members (one from outside the department of the College in which the student is majoring) who can also be of assistance in their areas of expertise.

PhD program advisory committees must have at least five members: a chairperson, who is drawn from the graduate faculty and who represents the student's major area of study (the chairperson serves as the major advisor in program planning and research) and four members, one of whom must be from outside the department of the student's major.

Program Planning
As soon as possible after the appointment of the doctoral program advisory committee, but no later than the end of the first semester of doctoral study, the student and the major advisor should convene a meeting of the program advisory committee. At this program-planning meeting, the student provides each member with a formal written summary of graduate study to date. The student and the committee then plan a program of study to meet the academic and professional needs of the student and fulfill all requirements of the program, the College, and the Graduate School. Plan of Study forms for both doctoral degrees may be obtained in the departmental offices.

Official copies of the Plan of Study agreed upon by the student and the committee shall be dated, signed by the committee members and the department head, and distributed to the Office of the Graduate School, to the student's program office for inclusion in the student's program file, to the dean, and to the committee members. Any deviation from the Plan of Study must be approved by the committee and noted by the chairperson on the student's official record. An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

The program advisory committee continues to assist the student in program planning and advisement until the student satisfactorily completes all major and minor comprehensive examinations.

Degree Requirements
The PhD requires a minimum of 72 hours of graduate study beyond the master's degree, comprising at least 48 hours of coursework and 24 hours of dissertation research. The course of study must include no fewer than 24 semester hours in a major field, a minimum of 12 semester hours in foundational coursework, and a minimum of 12 semester hours in research methods. Although there is no longer a college-wide requirement, individual departments may stipulate additional hours for a minor requirement or research methods.

The EdD degree requires a minimum of 72 hours of graduate study beyond the master's degree, including at least 60 hours of coursework and 12 hours of dissertation research. The course of study must include no fewer than 24 hours in a major field, a minimum of 12 semester hours in foundational coursework, and a minimum of 12 semester hours in research methods. With the approval of the Student's program advisory committee, some departments permit up to 6 semester hours of dissertation research credit to be included in the 60 hours of required coursework. In such cases the minimum number of hours is 66.

Students pursuing PhD and EdD degrees in the College of Education must satisfy the following foundations requirement: 12 hours of graduate coursework comprising (1) any BEF or BEP classes or (2) any non-research methods courses outside the student's department. Foundations courses cannot come from the student's major program. Approved by the program study committee, these classes should introduce the student to theoretical discourses and bodies of knowledge that provide a depth and breadth of understanding necessary for fluency with the research, theory, and scholarship foundational to the student's field of inquiry and dissertation research. A 12–15 semester hour research/statistics competency is also required in all PhD and EdD programs.

Additional information is in the Degree Requirements section of this catalog.

Major and Minor Examinations
Each PhD candidate must demonstrate competence in his or her major fields (and minor fields, if required by the department). Each EdD student must demonstrate competence in the broad area of knowledge and any areas of specialization specified in his or her program of study. Written comprehensive examinations are required to determine competence in the student's major (PhD) or broad area of knowledge (EdD); an oral defense of the written examination may be requested. A student who fails a major or minor examination may repeat it only once.

A student may apply to take the comprehensive examination in the major after filing a Plan of Study, completing at least one semester in residence, and obtaining approval of the department head (or the department head's
designee) to take the examination. An examination application should be filed with the appropriate department head at least four weeks in advance of the scheduled testing date.

Comprehensive examinations in minor fields or areas of specialization can be taken after the student has completed all coursework in the minor field. The chairperson of the program or department offering the minor or area of specialization may establish evaluating procedures other than a written comprehensive examination.

Dissertation Committee
The dissertation committee, with the director of the dissertation as its chairperson, is responsible for assisting the doctoral student in developing and conducting dissertation research. Once the dissertation committee is formed, the student's program planning committee is disbanded. To form the dissertation committee, the student meets with the chairperson of the program advisory committee to discuss a potential dissertation topic and identify faculty with relevant expertise who by virtue of full membership in the graduate education faculty may chair the dissertation committee. The student then requests such a faculty member to chair the dissertation committee, and together they recommend at least four additional members of the committee, at least one of whom is from outside the department that includes the student's major field of study.

The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

Selection of the committee chairperson and members should be based on the relationship between the expertise and scholarly interests of the faculty members and the student's proposed dissertation topic. The student and committee chairperson recommend the committee to the program chairperson who recommends the committee to the department head, who in turn recommends the committee to the dean of the College of Education.

The dissertation committee chairperson provides intense counsel in selecting the dissertation problem, developing the proposal, coordinating input from committee members, chairing committee meetings, guiding the student's dissertation research, guiding the writing of the dissertation, and chairing the oral defense of the dissertation. The dissertation committee assists the student in developing the proposal, conducting dissertation research and writing the dissertation, and judges the adequacy of the student's dissertation defense. Close cooperation and involvement of all committee members are expected at all stages of the dissertation process, from the development of the proposal to successful oral defense of the dissertation. The student, in consultation with the chairperson of the committee, is responsible for scheduling committee meetings.

Dissertation Proposal
The dissertation is a contribution to research and literature in a field. It represents the student's ability to identify a problem; develop an understanding of the relevant literature and previous research in an area of inquiry; formulate cogent research questions or hypotheses; report and discuss results of investigation; and derive conclusions, implications, and recommendations from results. The dissertation proposal is the first major step in this process.

The topic of the dissertation should evolve from the student's academic and professional interests. The topic will not be accepted until the dissertation committee formally meets and approves a comprehensive dissertation proposal. While a student may present a brief prospectus to the committee informally, the acceptance of the complete dissertation proposal is necessary before the student has approval from the committee to pursue the dissertation, and before the student is admitted to candidacy for the doctoral degree.

The dissertation proposal will include an introduction to the problem, a statement of the problem, research questions or hypotheses, a comprehensive review of literature and related research, a description of the methods of inquiry or research methods to be employed in the investigation, and the results of pilot studies (where appropriate). It is expected that the information presented in the proposal will be comprehensive and will include discussion of the areas just mentioned in a form that is essentially the same as the final dissertation. Some departments require a formal prospectus prior to the dissertation proposal.

Prior to the formal proposal meeting of the dissertation committee, the student should confer with all committee members. The written dissertation proposal must be provided to members of the committee at least 10 working days prior to the proposal meeting. The Graduate School policy on article-style dissertations may be found in the Degree Requirement section of this catalog.

Upon acceptance of the dissertation proposal, including completion of any changes recommended by the committee, each committee member will sign the acceptance page of the dissertation proposal. One copy of the signed proposal will be filed with the chairperson of the dissertation committee and one copy will be forwarded to the program chairperson and department head for the student's permanent file. The student is then eligible for admission to candidacy for the degree; the application for admission to candidacy for degree must be completed. The dissertation proposal will be maintained in the program and departmental office until the student completes and successfully defends the dissertation.

Typically, the student's major advisor (chairperson of the dissertation committee) will serve as the chief advisor for the dissertation research and preparation of the dissertation. However, another advisor may be selected if the choice of topic warrants such action. Such a change must be approved by the program chairperson and department head, in consultation with the student. In addition, more than five faculty members may serve on the dissertation committee. Students are encouraged to seek advice and assistance with their research from any member of the dissertation committee and from staff members in the College of Education Research Assistance Laboratory.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadlines, are available at the Graduate School's homepage.

Additional information is in the Degree Requirements section of this catalog. The length of work on dissertation research will vary. In no case shall the student be allowed to take an oral examination on the dissertation before having been admitted to candidacy.
Admission to Candidacy

After approval of the dissertation proposal, and completion of all major and minor examinations, the student is eligible for admission to candidacy for the degree. The Admission to Candidacy for the Doctoral Degree form for the PhD or EdD degree is provided by the Graduate School. The student completes the form; obtains the signatures of the dissertation committee, department head, and other appropriate officials; and has the form forwarded to the dean of the College of Education for signature. The completed candidacy form is submitted to the Graduate School for final approval. The department head reports the results of all comprehensive examinations to the College's Office of Student Services and Certification and to the Graduate School.

No student may be admitted to candidacy in a program requiring teaching experience before completing the minimum number of years of appropriate teaching or other experience acceptable to the dissertation committee. A statement of experience from previous employers may be required.

Once a student has met the requirements for admission to candidacy for a doctoral degree, doctoral students (except those in the DMA program) must pursue completion of the dissertation without interruption by enrolling each semester for at least 3 hours of dissertation research; DMA students must enroll each semester for at least 1 hour of document research. This is true whether or not the student has submitted an application for Admission to Candidacy for the Doctoral Degree. Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. Additional information is in the Degree Requirements section of this catalog.

Oral Examination

Since the dissertation research results from the acceptance of the proposal, a minimum of two semesters normally is anticipated prior to oral defense of the dissertation. This time frame ensures adequate attention to discussion of results, their implications for the field, and recommendations for future scholarship.

When all requirements have been met and the dissertation is completed, the student shall arrange a meeting of the dissertation advisory committee; the student shall distribute copies of the dissertation to the members at least 10 working days prior to this meeting.

At least 10 working days prior to defending the dissertation, the student must send an abstract of the dissertation to all faculty in the College of Education along with an invitation to attend the defense that indicates time and place of the defense. The student must defend the dissertation satisfactorily in that meeting and must pass any other examinations considered appropriate. The record of the student’s performance on the final defense of the dissertation will be noted on the proper forms, in accordance with requirements of the Graduate School. These forms will be signed by committee members.

It is the responsibility of the student to submit to the Office of the Graduate School, six weeks prior to graduation, two copies of the dissertation and the abstract in the final, approved form. Further changes or corrections may be suggested by the Graduate School at this time, and these must be completed or reconciled before graduation.

Time Limits for Doctoral Study

All degree requirements must be completed within seven years (21 fall, spring, and summer semesters) following admission to the doctoral program. For example, a student being admitted to and enrolled in the 2009 fall semester may utilize appropriate coursework earned during the 2003 fall semester and may also utilize appropriate coursework earned through the 2016 summer semester.

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period prior to admission to the doctoral program. Such credit must be identified clearly on the Plan of Study and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previous graduate credit to the doctoral degree if the credit was earned during the six-year period prior to admission to the doctoral program.

Time Limits Extension Request

Only under well-documented, extraordinary circumstances beyond the student’s control, a student may petition for a one-semester extension to the seven-year time limit that, if recommended by the department head and approved by the college dean and finally the graduate dean or his designee, will not require the student to validate any out-of-date courses. Validation of out-of-date courses is not an option in the College of Education. If a student fails to complete all degree requirements within seven years of his or her admission to the doctoral program or within a Graduate School approved one-semester extension, the student will be officially suspended from the doctoral program and must reapply for admission.

Repeating Courses When Given an Extension

When requests are made for extension of Graduate School deadlines, and it is deemed that an out-of-date course is integral to the degree program, the dean of the College of Education may request permission that the Graduate School for the course to be repeated. In such instances, both grades shall be used in calculation of the GPA.

Residence Requirements for Doctoral Study

A minimum of two academic years of graduate study beyond the masters degree is required for completion of EdD and PhD programs in the College of Education. At least one academic year of doctoral study (or its equivalent, as noted below) must be spent in continuous residence as a full-time student on the campus of The University of Alabama.

Doctoral program advisory committees may approve either of the following alternatives for meeting residence requirements:

- one full summer term and the following fall semester engaged in coursework on a full-time basis on the campus
- a spring semester and the following full summer term engaged in coursework on a full-time basis on the campus

Students pursuing alternative doctoral residency in the Instructional Technology concentration of the Instructional Leadership Ph.D. degree will enroll in 18 hours of approved graduate level coursework across three consecutive semesters. The 18 hours of coursework must include at least nine hours of approved coursework at the Tuscaloosa campus, three hours of coursework in AIL 691 Doctoral Seminar: Instructional Technology, and no more than six hours of advisor approved online/distance education/Gadsden coursework.

Students in the secondary education and educational leadership EdD (not PhD) programs have the option to meet the doctoral residency requirement by following an alternative policy that is on file with the Graduate School. Contact the Graduate School for details.

Students at the Gadsden Center may fulfill EdD residency by completing 24 graduate hours while continuously enrolled for a period of 24 months.
Transfer Credit

Appropriate graduate credit beyond the master's degree that was earned in other accredited institutions may be transferred (with departmental and Graduate School approval) and applied to doctoral requirements, but in no case can the amount of transferred credit exceed one-half of the hours required for the degree. In calculating the number of transferable hours, dissertation-research credit hours are subtracted from the total degree requirements. A student completes a Request for Transfer of Graduate Credit and submits it to the Graduate School. The student also must ensure that the Graduate School has an official (not faxed or copied) transcript of the credit involved. It is best to apply for official transfer of credit in the student’s first semester of doctoral enrollment; otherwise, the student and advisor will be unsure about the number of course hours needed when submitting the required Plan of Study. Plan of Study forms for both doctoral degrees may be obtained in the departmental offices.

Additional information concerning admission and degree requirements may be outlined in the individual program descriptions in this catalog. Admissions and degree requirements for the Graduate School (Admission Criteria and Degree Requirements) and the College of Education (General Admission, EdS, PhD) are detailed below.

See the Admission Criteria section of this catalog for more information.

General Admission Requirements

To be considered for regular admission to a graduate program in the College of Education, a student must satisfy both of the following admission requirements, unless otherwise specified:

- An entrance examination* score of at least 300 on the GRE General Test or a score no lower than the 50th percentile on the Miller Analogies Test (MAT) if the MAT is accepted by the department
- An undergraduate GPA of 3.0 on a 4.0 scale, a 3.0 average for the last 60 semester hours in a degree program, or a 3.0 or higher in a completed graduate degree program

An applicant whose credentials do not meet the above requirements may be considered in some programs for admission if one of the following minimum requirements is satisfied:

- an overall GPA of 2.75
- an entrance examination score no lower than the 40th percentile on the entrance examination required by the department

*Entrance examination: The GRE is REQUIRED for all degree programs, except as indicated below:

The following programs will accept the GRE or MAT:

- Counselor Education, MA/EdS/PhD
- Elementary Education, MA/EdS
- Educational Leadership, MA/EdS (Class AA Instructional Leader)/EdD
- Educational Psychology (General), MA
- Higher Education Administration, MA/EdD
- Instructional Leadership, PhD (Technology)
- Secondary Education (including Music Education), MA/EdS
- Secondary Education (Music Education only), EdD/PhD
- Special Education, MA/EdS

The following programs do not require an entrance exam:

- Educational Leadership/EDS (Class AA Teacher Leader)
- Instructional Leadership, PhD (Social and Cultural Foundations)
- Instructional Leadership, EdD (Nurse Educator)

Admission to graduate programs is competitive. Meeting minimum requirements does not guarantee admission, only that students will be reviewed for admission. Applications are reviewed by departmental screening committees with consideration given to such factors as academic and professional backgrounds, test scores, personal traits, professional goals and aspirations, and other factors that pertain to the ability to complete the program successfully and continue a productive career. The Graduate School makes final admissions decisions based on departmental recommendations and the Graduate School’s review of applications.

With approval, a student may enroll for one semester only as a non-degree student in the College of Education and is subject to the conditions outlined in this catalog for non-degree students. Responsibility rests with the student to observe the limitations imposed on credit hours, coursework, and transfer of credit.

An applicant to a College of Education program that leads to professional certification must submit references from current and former professors and supervisory personnel knowledgeable of the applicant’s academic and professional capabilities.

Admission to the Graduate School is not equivalent to "unconditional admission" to a state-approved educator preparation program. Candidates admitted to the institution to enroll in courses in a Class A, Alternative Class A, or Class AA program (other than Instructional Leader) may complete no more than five approved program courses prior to meeting ALSDE requirements for "unconditional admission." For Class A and Class AA Instructional Leadership programs, individuals must meet ALSDE requirements for "unconditional admission" before enrolling in ANY instructional leadership courses in the program, as prescribed in the Alabama Administrative Code.

LiveText Requirement

Live Text, a web-based student support system, is required of all students in programs leading to professional educator certification.

Fingerprinting Requirement

Applicants to a state-approved teacher education program shall be required to be fingerprinted for a criminal history background check through the Alabama State Department of Education to the Alabama Bureau of Investigation (ABI) and the Federal Bureau of Investigation (FBI) pursuant to ACT 2002-457. This includes all students (traditional, alternative, out-of-state, and distance learners) enrolled in MA and EDS programs that lead to Alabama certification, regardless of whether or not they are pursuing Alabama certification. The background check is completed at the student’s expense, and suitability must be documented in the Office of Student Services & Certification before the student is assigned placement in a clinical setting. [Alabama Administrative Code]

A candidate whose suitability determination precludes admission to a state-approved teacher education program has the right to due process procedures in accordance with the current Educator Certification Chapter of the Alabama Administrative Code (Revocation and Suspension of Certificates and Unsuitability Determinations).

Policies for Out-of-State Students at the Master's Level (Class A) and Educational Specialist Level (Class AA) for Any Area Except Educational Administration

Admission requirements for master's level (Class A) programs for teachers include "eligibility for Class B certification in the teaching field(s) in which Class A certification is sought," except in a few specified fields.
Admission requirements for educational specialist level (Class AA) programs for teachers include “eligibility for Class A certification in the teaching field(s) in which Class AA certification is sought,” except in a few specified fields.

**Foreign Credentials**
Coursework and/or a degree accepted from institutions outside the United States shall be substantiated by an evaluation of the foreign credentials from a state, federal, or private foreign credential evaluation service recognized by the Teacher Education and Certification Office. Contact the College’s **Office of Student Services & Certification** for more information.

See the Admission Criteria section of this catalog for more information.

**Professional Licensure (Certification)**
The curricula offered by the College of Education are designed to prepare teachers and school administrative and supervisory officials for the appropriate certificates. Certification programs are available for the Alabama Class A and Class AA professional certificates. The College of Education, in accordance with the regulations of the Alabama State Board of Education, also provides assistance to individuals who need courses for the renewal of a certificate.

The associate dean for student services in the College of Education has been designated the teacher certification officer for the University. Students who need information about or assistance with certification should consult the associate dean for student services.

**Application for Certification**
All students must complete the proper application form for Alabama certification. Forms are available online through the Alabama Department of Education. Applications should be submitted to Student Services in 104 Carmichael Hall at least one semester in advance of graduation. A student who does not apply for professional licensure within 60 months after completing the state-approved program will be required to meet the current program. Students who plan to teach in other states must secure the proper professional licensure application forms from those states’ departments of education.

**Alabama Class A Professional Certificate**
Class A teacher education programs are designed to help teachers more effectively serve the purposes defined for the same teaching field at the Class B level, provided such programs exist. The intent of the fifth-year program is to help the teacher develop higher levels of competence than is possible in the Class B program.

Effective for candidates admitted July 1, 2017, and thereafter, a cumulative GPA of not less than 3.25 is required for all courses used to meet the requirements on the approved program checklist for a Class A teaching field or area of instructional support, and a final comprehensive examination is required.

A survey of special education course is required. An individual who completed a survey of special education course prior to meeting requirements for unconditional admission to a Class A program on July 1, 2017, and thereafter, must take an approved course focused primarily on one of the following categories: methods of accommodating instruction to meet the needs of students with exceptionalities in inclusive settings, multicultural education, teaching English language learners, rural education, or urban education. A course used to meet this requirement for one level of certification may not be used to meet the requirement for a higher level of certification.

Following a review by the Alabama State Board of Education, the Class A Professional Certificate is granted to the student who (a) has applied for and has been recommended for certification by the College of Education, and (b) has completed a pre-planned graduate program, approved by the state board of education, that includes a master’s degree. It is important to remember that the awarding of a master’s or higher degree does not necessarily imply that the student is eligible for Class A certification.

If applicable, applicants for the certificate must also present to the Alabama Department of Education evidence of successful and appropriate educational experience, as follows: for certification as a library/media specialist, two years; as a school counselor or psychometrist, two years; sport management, two years; as an instructional leader, three years. [Effective July 1, 2017, two full years of full-time, acceptable professional educational work experience will be required for admission to instructional support programs (Library Media, School Counseling, School Psychometry, and Sport Management).]

Applicants for initial certification in a teaching field or area of instructional support must meet the requirements of the Alabama Educator Certification Assessment Program (AECAP). Information about Praxis assessments is available at https://www.ets.org/praxis/al or in the Office of Student Services & Certification (104 Carmichael Hall).

An individual who completes an Alabama State-approved program must submit an application for Alabama certification within 60 calendar months of the program completion date. The Class A certificate is valid for five years and may be renewed according to regulations of the **Alabama State Board of Education**. Individuals are responsible for meeting renewal requirements and submitting the application for renewal.

**Alabama Class AA Professional Certificate**
The essential objective of the sixth-year program is to extend upward the level of competence of the teacher. Following a review by the Alabama State Board of Education, the Class AA Professional Certificate is granted to students who (a) have applied for and are recommended for certification by the College of Education, and (b) have completed a pre-planned graduate program, approved by the state board of education. Students seeking Class AA professional certification must enroll in and complete the EdS (or doctoral) degree program in the desired certification area in order to obtain the University’s recommendation for Class AA professional certification. Courses used to qualify for a lower-level supporting certificate may not be used again as part of a higher-level certification program.

Effective for candidates admitted July 1, 2017, and thereafter, a cumulative GPA of not less than 3.50 is required for all courses used to meet the requirements on the approved program checklist for a Class AA teaching field or area of instructional support, and a final comprehensive examination is required.

A survey of special education course is required. An individual who completed a survey of special education course prior to meeting requirements for unconditional admission to a Class AA program on July 1, 2017, and thereafter, must take a course focused primarily on one of the following categories: methods of accommodating instruction to meet the needs of students with exceptionalities in inclusive settings, multicultural education, teaching English language learners, rural education, or urban education. A course used to meet this requirement for one level of certification may not be used to meet the requirement for a higher level of certification.
Applicants for initial certification in a teaching field or area of instructional support must meet the requirements of the Alabama Educator Certification Assessment Program (AECAP). Information about Praxis assessments is available at https://www.ets.org/praxis/al or in the Office of Student Services & Certification (104 Carmichael Hall).

A maximum of 15 semester hours of appropriate post-master's-degree credit earned through an institution approved to offer graduate programs beyond the master's level in the field of study in which the credits were earned may, with approval by the department head or his or her designee, be applied toward the Class AA Professional Certificate. It is important to remember that the awarding of a graduate degree does not necessarily imply that the student is eligible for Alabama certification.

An individual who completes an Alabama State-approved program must submit an application for Alabama certification within 60 calendar months of the program completion date. The Class AA certificate is valid for five years and may be renewed according to regulations of the Alabama State Board of Education. Individuals are responsible for meeting renewal requirements and submitting the application for renewal.

Alternative Approaches to Certification

In addition to "regular" certification programs, the Alabama State Board of Education offers alternative approaches to certification. Some of these include: (a) Alternative Class A approach (see information in this catalog); (b) provisional certificate in a teaching field, formerly ABC approach; (c) provisional certificate in Library Media or School Counseling; (d) CACREP-accredited School Counseling Program approach; (e) Nationally Certified School Psychologist approach; and (f) National Board for Professional Teaching Standards approach. Information regarding these approaches is available via the Alabama Department of Education.

Policies for Out-of-State Students at Fifth-year (Class A) and Sixth-year (Class AA) Levels for Any Area Except Educational Administration

Students planning to teach outside the state of Alabama are held personally responsible for knowledge of professional licensure requirements in those states.

Admission requirements for fifth-year (Class A) programs for teachers include "eligibility for Class B certification in the teaching field(s) in which Class A certification is sought," except in a few specified fields.

Admission requirements for sixth-year (Class AA) programs for teachers include "eligibility for Class A certification in the teaching field(s) in which Class A certification is sought," except in a few specified fields.

Out-of-state students who do not meet the above admission requirements to enroll in courses at the respective levels may be recommended to other state departments of education based on completion of coursework, not completion of approved programs. Thus, these students will not be eligible for Alabama certification and, if and when the students wish to receive Alabama certification and teach in Alabama, they must present verification of eligibility for an appropriate prerequisite Alabama certificate before being recommended for Alabama certification.

Foreign Credentials

Coursework and/or a degree accepted from institutions outside the United States shall be substantiated by an evaluation of the foreign credentials from a state, federal, or private foreign credential evaluation service recognized by the Teacher Education and Certification Office.

Contact the College’s Office of Student Services and Certification for more information.

Changes in Certification Requirements

The programs listed in this catalog that lead to Alabama Class A and Class AA professional certificates for service in the public schools may be altered to meet certification standards adopted by the Alabama State Board of Education. Check with the appropriate department head for information.

Department of Curriculum & Instruction

- Majors
  - Elementary Education (MA) (p. 396)
  - Elementary Education (EdS) (p. 396)
  - Elementary Education (EdD) (p. 395)
  - Elementary Education (PhD) (p. 398)

-    - (p. 398)Secondary Education (MA) (p. 403)
  - Secondary Education (EdS) (p. 399)
  - Secondary Education (EdD) (p. 398)
  - Secondary Education (PhD) (p. 410)

Elementary Education Programs

CEE501 Managing Effective Classrooms
Hours 1-6

This course is designed to teach students the principles of classroom management, theory, methods, and techniques.

CEE515 Science In Elementary School
Hours 3

Designed to expand knowledge and competencies of elementary teachers of science with specific focus on current standards, research, and inquiry models of instruction.

CEE516 Social Sci In Elem Sch
Hours 3

The focus is on current trends in elementary social studies, with particular attention to innovative instructional modes and to relating learning to the learners’ social environment.

CEE517 Lang Arts In Elemy Sch
Hours 3

Designed to extend and strengthen the knowledge and competencies of experienced teachers of communication arts and skills in the elementary school.

CEE525 Issues Trends Elem Sch Science
Hours 3

Focus on current research and trends in elementary science with respect to historical, political, and socio-cultural contexts.

CEE526 Implementing Social Studies
Hours 3

The focus is on considering and applying the research base of investigating social studies curricula and instruction to one’s own classroom.
CEE530 Modern Elementary School Progr
Hours 3
No description available

CEE532 Elementary Sch Curric
Hours 3
The evolving elementary school curriculum, from historical, current trends, and projective perspectives.

CEE550 Intro Teach Elem School Scienc
Hours 3
Introduction to the teaching of science. Current research is emphasized supporting best instructional practices in science.

CEE560 Intro Teaching Social Studies
Hours 3
Teaching elementary social studies using research-based instructional strategies and curriculum.

CEE565 Classics & Modern Lit
Hours 3
Deals with major developments in literature for children; the areas of children's literature; and effective methods of helping children enjoy and use literature.

CEE570 Teach Reading Elementary Schoo
Hours 3
A foundation for the teaching of reading in the elementary grades (K-6) with an emphasis on development, assessment, and instruction for individual students. Intensive field experience is required.

CEE574 Guiding Pupil Learning
Hours 3
Focuses on understanding how children learn, what factors influence learning, and how teachers can facilitate learning using brain based learning. Application of these principles of learning to classroom situations.

CEE578 Teach Lang Arts In Elem School
Hours 3
Deepening understanding of teaching reading/language arts with emphasis on planning a balanced literacy program. Intensive field experience is required.

CEE580 Concepts Elem School Math
Hours 3
Focuses on the current research in mathematics education concerning how children learn mathematics.

CEE581 Math Curriculum Design
Hours 3
Designing mathematics curricula using current research from mathematics education.

CEE582 Teach Math Elem Altern Student
Hours 3
This course prepares students to effectively teach mathematics in grades K-6. Emphasis is on the current research in mathematics education.
Prerequisite(s): None. Corequisites: CEE 570 and CEE 595

CEE594 Problems
Hours 1-6
Opportunities to study or work independently on topics or projects of individual concern. Credit is based on the nature and degree of student involvement.

CEE595 Practicum
Hours 1-12
Supervised opportunities to apply knowledge and skills in a professional setting. Credit is based on the nature and degree of student involvement. Admission to TEP Program is required.
Prerequisite(s) with concurrency: CEE 570, CEE 365, CEE 582, KIN 364

CEE596 Advanced Practicum
Hours 3
A field-based course providing graduate students with opportunities to practice authentic classroom application of various content areas in elementary education. Admission to TEP Program is required.
Prerequisite(s): None. Corequisites: CEE 550, CEE 560, and CEE 578

CEE597 Internship Elem Educ
Hours 3-12
Observation, participation, and teaching experiences supervised by selected cooperating teachers in public elementary schools. Additional supervision is provided by College of Education personnel.
Prerequisite(s): CEE 560, CEE 550, CEE 582, CEE 596, CEE 595 with a minimum passing grade of C- Corequisite: CEE 501

CEE598 Non-Thesis Research
Hours 1-3
No description available

CEE616 Adv Soc Studies Elem Sch
Hours 3
The focus is on current trends and research in elementary social studies with particular attention to innovative instructional modes and relating learning to the learner's social environment.

CEE687 Topical Research Review
Hours 3
Supervised opportunities to apply knowledge and skills in a professional setting. Credit is based on the nature and degree of student involvement.

CEE690 Advanced Seminar
Hours 1-3
In-class opportunities to analyze and discuss current topics, problems, and/or projects of collective concern. Topics vary.

CEE694 Problems
Hours 1-6
Opportunities to study or work independently on topics or projects of individual concern. Credit is based on the nature and degree of student involvement.

CEE695 Practicum
Hours 1-12
Supervised opportunities to apply knowledge and skills in a professional setting. Credit is based on the nature and degree of student involvement.
**CEE697 Specialist Degree Res**  
Hours 1-6  
Systematic classroom inquiry is used to engage students in a teacher action research project.  
Prerequisite(s): CEE 687  

**CEE698 Non-Thesis Research**  
Hours 1-3  
No description available  

**CEE699 Dissertation Research**  
Hours 1-12  
No description available  

## Curriculum and Instruction Courses

**CIE562 Tesol: Basic Methods**  
Hours 3  
Theories, methods, and strategies for English as a second language that focus on communicative competence and cross-cultural understanding. Admission to TEP Program is required.  
Prerequisite(s) with concurrency: CSE 592  

**CIE567 Improv Foreign Lang Instruct**  
Hours 3  
Critical examination of theoretical perspectives, methods, major issues, and controversies pertinent to teaching foreign language; use of technology in language instruction is a critical component.  

**CIE576 Linguistics Classroom Teachers**  
Hours 3  
This linguistic course enables teachers to understand the basics of how the English language functions. Provides information essential for dealing with students whose native language is not English. Offers useful information about various English dialects as well.  

**CIE577 Second Language Acquisition**  
Hours 3  
Introduction to and analysis of the main issues and theories in second language acquisition (SLA); students deduce and demonstrate instructional implications.  

**CIE578 Second Lang Test Assess Evaln**  
Hours 3  
Preparation in the background and skills necessary to construct classroom-based tests, appropriately use published tests, and understand second or foreign language program evaluation.  

**CIE579 Tch English For Lang Prog/Pol**  
Hours 3  
Theories of language learning, acquiring a second language, and current linguistic theories; emphasis is on programs, policies, and instructional methods of ESL education.  

**CIE580 Teaching Foreign Languages**  
Hours 3  
Theories, methods, and strategies for foreign language teaching that focus on communicative competence and cross-cultural understanding; use of technology in language education is a critical component. Admission to the TEP Program is required.  
Prerequisite(s) with concurrency: CSE 592  

**CIE582 Dev Util Instr Matrials**  
Hours 3  
No description available  

**CIE592 Field Work**  
Hours 1-3  
A clinical experience taken concurrently with the methods course and designed to facilitate students' development of pedagogical skills, effective thinking, and professional problem solving.  

**CIE597 Elementary/Secondary Internsh**  
Hours 3-9  
Elementary/Secondary Internship.  

**CIE599 Special Topics in Early Childhood, Elementary, and/or Secondary Education**  
Hours 1-6  
This course, offered on campus or abroad, provides opportunities to engage with topics or projects of collective concern in early childhood, elementary, and/or secondary education. Topics vary. May be repeated. Offered according to demand.  
Prerequisite(s): Permission of instructor  

**CIE605 Teachers and Teaching Practices in Classrooms across the World**  
Hours 3  
The focus of this course is research on teachers and their teaching practice in real classrooms.  

**CIE606 New Literacies**  
Hours 3  
This course explores and applies theories of new literacies communication, learning, and research.  

**CIE609 Discourse & Pedagogy**  
Hours 3  
This seminar will provide foundational training for doing discourse analytic work within research of teaching and learning, with a focus on the integration of theory and methodology. Participants will be asked to conduct an analysis of classroom discourse for final evaluation.  

**CIE610 Effective Teaching**  
Hours 3  
Examination of the knowledge base in effective teaching practice through in-depth study of the research literature on classroom instructional practices and conditions, and on the classroom teacher. Designed specifically for doctoral-level students.
CIE620 Design Res Classrm Teach  
Hours 3  
The practice and use of reflection and action research with emphasis on developing professional skills in performing and applying research on classroom teaching and learning leading to teacher empowerment and school reform. Designed specifically for doctoral-level students.

CIE625 Res Sem Science Curriculum  
Hours 3  
Designed to enable students to understand and synthesize current research and to develop a theoretical framework in the science curriculum for K-12.

CIE626 Res Sem Social Studies Curricul  
Hours 3  
Designed to enable students to understand and synthesize current research and to develop a theoretical framework in social studies education for K-12.

CIE627 Second Language Literacy  
Hours 3  
This course is designed to provide the student with an introduction to the major issues in research and instruction in second language (L2) literacy (reading and writing). An emphasis in this course is on literacy as a cognitive skill. The psycholinguistic processes of reading and writing in a second language will be addressed.

CIE630 Curric Classroom Teacher  
Hours 3  
This course discusses the major issues in curriculum design and implementation for the classroom teacher. Designed specifically for doctoral-level students.

CIE640 Sem Teachr Educ Program  
Hours 3  
The course focuses on issues, problems, trends, and research associated with undergraduate and graduate teacher education and certification programs in Alabama, the U.S., and the world. Designed specifically for doctoral-level students.

CIE644 Student Teach Supervision  
Hours 3  
Organization and administration of student-teaching programs and methods of supervising student-teaching in schools. Designed specifically for doctoral-level students.

CIE645 Prof Cont: Tching & Lrning Com  
Hours 3  
Research-based focus using theoretical frameworks to examine and analyze the professional development continuum.

CIE650 Indiv/Context Variables  
Hours 3  
This course deals with learning styles, personality factors, and social-environmental issues that affect curriculum and instruction. Theoretical and practical aspects are covered. Designed specifically for doctoral-level students.

CIE656 Sem For Language Eductn Resear  
Hours 3  
Examination and critical analysis of a wide range of perspectives from the professional literature on teaching and learning a foreign language.

CIE660 Cognitive Perspectives  
Hours 3  
The course focuses on systematic descriptions and analysis of major learning theories for classroom application. The intent is to contribute education insight toward more effective teaching through cognitive processes.

CIE670 Critical Inquiry Curric Pedago  
Hours 3  
Examinations of different conceptualizations of curriculum and pedagogy in K-12, emphasis on critical theory and postmodern theory and critique.

CIE676 Linguistics Classroom Teachers  
Hours 3  
This course involves advanced investigation within general areas of applied linguistic studies such as phonology, morphology, syntax, semantics, discourse, pragmatics, writing systems, etc., and their impact on second language acquisition.

CIE680 Sem In Math Educ Research  
Hours 3  
Designed to enable students to understand and synthesize current research and to develop a theoretical framework in mathematics education.

CIE692 Field Work  
Hours 1-3  
Field-based opportunities to study or work on topics or projects of collective concern.

CIE693 Workshop  
Hours 1-6  
In-class opportunities to study or work on topics or projects of collective concern. Topics vary. May be repeated. Offered according to demand.

Reading Education

CRD500 Teaching Reading to Diverse Learners  
Hours 3  
A foundation in the materials and methods for teaching reading and the language arts K-12, with emphasis on intervention programs, assessment, and instruction for individual and small groups of students. Intensive field experience is required.

Prerequisite(s): CRD 369

CRD510 Expanding Reading  
Hours 3  
A comprehensive study of the major factors involved in teaching reading at the intermediate grade levels. Techniques for teaching word recognition and comprehension skills are studied extensively.

CRD511 Beginning Reading  
Hours 3  
Attends to the theory and practice of beginning reading; key areas of study include diagnostic and evaluative procedures and the organization and implementation of appropriate instruction. A field component is required.
CRD512 Impr Read Second Schools
Hours 3
A comprehensive study of the major components involved in literacy instruction at the secondary level. A field component is required. This course should be taken concurrently with the content methods course and CSE 592.

CRD553 Foundations Reading Pk-12
Hours 3
A comprehensive study of the theoretical foundations and history of literacy development and instruction in PK-12 settings.

CRD569 Introduction to Literacy Education
Hours 3
This course provides an overview to the foundations of literacy development and instruction grades PK-12.

CRD590 Seminar In Literacy Coaching
Hours 3
A comprehensive study of the major theories of and components involved in providing professional development in literacy to teachers and schools.

CRD593 Practicum in Literacy Coaching
Hours 3
This course provides students with the ability to implement the knowledge base of current research in coaching teachers' literacy instruction by conducting literacy coaching and literacy professional development in P-12 schools.

CRD595 Practicum In Reading
Hours 1-12
Provides graduate students supervised opportunities to apply knowledge and skills in primary grade settings (preschool-2nd).
Prerequisite(s): Corequisites: CRD 510, CRD 511, and CRD 512

CRD654 At Risk Readers
Hours 3
Provides advanced study of theoretical perspectives of diagnostic methods and materials for P-12 students at risk of reading failure.

CRD690 Advanced Seminar Crd
Hours 1-3
Provides students with a knowledge base of the relationship between theory, research and practice in regard to K-12 literacy education.

CRD693 Advanced Workshop
Hours 1-3
In-class opportunities to study or work on topics or projects of collective concern. Topics vary. May be repeated.

CRD695 Adv Practicum Readg Education
Hours 3
Provides graduate students supervised opportunities to apply knowledge and skills in intermediate grade settings (3rd-6th).
Prerequisite(s) with concurrency: CRD 510, and Corequisite: CRD 654

CRD696 Adv Reading Specialist Practic
Hours 3
Provides reading specialist graduate students supervised opportunities to apply knowledge and skills in middle school and high school settings (7th-12th).
Prerequisite(s) with concurrency: CRD 654

Secondary Education Courses

CSE530 Mod Sec School Program
Hours 3
The evolving secondary school and its program, with emphasis on analysis of current trends that directly affect modern school practices in a societal context.

CSE532 Secondary Sch Curric
Hours 3
The evolving secondary school curriculum, from historical, current trends, and projective perspectives.

CSE555 Adolescent Literature
Hours 3
An introduction to literature appropriate for the adolescent reader; reading patterns and major concerns of adolescents.

CSE563 Imprvg English Instr
Hours 3
Principles of learning applied to concepts, skills, attitudes, and problem solving in English and speech; diagnosis, enrichment, remedial teaching, and evaluation.

CSE564 Imprvg Soc Sci Instr
Hours 3
Exploration and examination of methods and materials for improving social studies instruction. Focuses on teaching for diverse learners, constructivist methods, critical thinking, interdisciplinary teaching, and various technologies as they apply to secondary social studies classrooms.

CSE565 Improvg Science Instr
Hours 3
Principles of learning applied to concepts, skills, attitudes, and problem solving in science; diagnosis, enrichment, remedial teaching, and classroom evaluation, and application and evaluation of technologies.

CSE566 Improvg Math Instr
Hours 3
Principles of learning applied to concepts, skills, attitudes, and problem solving; proper use and evaluation of teaching aids; construction and utilization of teaching instruments; and examination and exploration of alternative assessment strategies and technologies for use in secondary mathematics classrooms.

CSE569 Pedagogical Grammar
Hours 3
Exploration of structural, transformational, and traditional approaches to teaching grammar.
CSE570 Teaching Writing 6-12
Hours 3
This course is designed to prepare prospective and current English teachers to successfully teach and evaluate writing in grades 6-12.

CSE574 Guiding Pupil Learning
Hours 3
Understanding ways children and youth learn, factors influencing learning, and ways in which teachers can facilitate learning through brain based research. Application of principles of learning to classroom situations. Usually offered during summer school.

CSE575 Devlpn Math Teaching w/Tech
Hours 3
Focuses on the development of teaching secondary mathematics with new and emerging technologies. Explores the appropriate use of technologies to enhance conceptual understanding and problem solving in mathematics. Development of advanced classroom lessons and assessments in a technology classroom.

CSE576 Improving Science Teaching
Hours 3
Examination and evaluation of appropriate technologies for the secondary science curriculum.

CSE579 Teach Sec School English
Hours 3
Methods and media essential to effective instruction in English in the secondary school.
Prerequisite(s) with concurrency: CSE 592, CRD 512, BER 550

CSE580 Teach Sec Sch For Lang
Hours 3
Theories, methods, techniques, and essential media for teaching foreign languages effectively in the secondary school. Admission to TEP Program is required.
Prerequisite(s) with concurrency: CSE 592 OR CRD 512

CSE583 Teach Sec School Math
Hours 3
Methods, media, and techniques of teaching mathematics in the secondary school, including selected topics in mathematics and exploration and examination of various technologies for use in secondary mathematics classrooms, including, but not limited to, calculators and various computer software.
Prerequisite(s): CSE 406 with a minimum passing grade of C-
Prerequisite(s) with concurrency: CSE 592, CRD 512

CSE585 Advanced Teaching Inquiry in Secondary Social Studies
Hours 3
This course is designed to assist students' understanding of and application of powerful, inquiry-based strategies to the design of meaningful 21st century social studies instruction and assessment.
Prerequisite(s): TEP

CSE586 Teach Sec School Science
Hours 3
Methods and technologies essential to effective instruction in science in the secondary school.

CSE587 Teach Sec School Soc Sci
Hours 3
Theories and methods of teaching social studies in secondary schools, including examination and exploration of instructional materials, various technologies, constructivist methods, and assessments.

CSE592 Field Work
Hours 1-3
A clinical experience taken concurrently with the methods course and designed to facilitate students' development of pedagogical skills, effective thinking, and professional problem solving.

CSE593 Workshop
Hours 1-3
In-class opportunities to study or work on topics or projects of collective concern. Topics vary. May be repeated.

CSE594 Problems
Hours 1-6
Opportunities to study or work independently on topics or projects of individual concern. Credit is based on the nature and degree of student involvement.

CSE595 Practicum
Hours 3-6
Focuses on analysis and performance of teaching strategies and the evaluation of teaching-learning problems.

CSE597 Internship
Hours 3-12
Full-time internship as a teacher in the major teaching field.
Prerequisite(s): CSE 579 or CSE 583 with a minimum passing grade of C

CSE598 Non-Thesis Research
Hours 1-6
No description available

CSE663 Sec School English
Hours 3
Literature, research, and content in English and speech; current trends; experimental programs; gradation or sequence of subject matter; criteria for program evaluation; and basic issues.

CSE664 Sec Sch Social Science
Hours 3
Focuses on curriculum and research in social studies education, including materials development and current issues in the field.

CSE665 Sec School Science
Hours 3
Literature, research, and content in science; current trends; experimental programs; gradation of subject matter; criteria for program evaluation; and basic issues.
CSE666 Sec School Mathematics
Hours 3
Principles of learning applied to concepts, skills, attitudes, and problem solving; proper use and evaluation of teaching aids; construction and utilization of teaching instruments; and examination and exploration of alternative assessment strategies and technologies for use in secondary mathematics classrooms.

CSE670 Res & Theory In Sec Ed
Hours 3
An examination of the relationship between theory and research. Students learn to search and evaluate the research literature and develop a proposal for research.

CSE675 Imprvg Math Teaching w/Tech
Hours 3
Focuses on the implementation, refinement, and assessment of mathematics teaching using advanced and new technologies including advancing critical thinking and cognitive task levels of classroom mathematics instructions.

CSE690 Advanced Seminar
Hours 1-3
In-class opportunities to analyze and discuss current topics, problems, and projects of collective concern. Topics vary.

CSE693 Advanced Workshop
Hours 1-9
In-class opportunities to study or work on topics or projects of collective concern. Topics vary. May be repeated.
Prerequisite(s): CSE 670

CSE694 Advanced Problems
Hours 1-6
Opportunities to study or work independently on topics or projects of individual concern. Credit is based on the nature and degree of student involvement.

CSE695 Practicum
Hours 1-12
Supervised opportunities to apply knowledge and skills in a professional setting. Credit is based on the nature and degree of student involvement.

CSE697 Specialist Degree Res
Hours 1-6
Systematic classroom inquiry is used to engage students in a teacher action research project. Advisor recommendation required.
Prerequisite(s): CSE 670

CSE698 Non-Thesis Research
Hours 1-3
No description available

CSE699 Dissertation Research
Hours 1-15
No description available

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Lisa Matherson
Holly Swain

Elementary Education, Ed.D.
The doctoral degree program is the highest professional degree and is designed primarily for top-level education practitioners and university researchers. Programs at the doctoral level are designed to prepare advanced practitioners for school positions or for professorships in institutions of higher education. The Doctor of Education (EdD) is for students who intend to become highly skilled practitioners and school leaders. Normally, three years of teaching are required to enter the EdD program. The EdD degree includes a focus on facilitating the development of action researchers and experienced practitioners.

Admission Requirements:
To be considered for regular admission, applicants must present a GPA of 3.0 on a 4.0 scale and a GRE score of 300 or higher. Three years of teaching are also required.
Degree Requirements:
- major coursework (CEE/CIE/CRD), 36 hours
- doctoral core coursework, 12 hours
- doctoral seminar course (CIE 693 Workshop), 3 hours
- research coursework as specified, 18 hours (minimum)
- humanistic/behavioral courses, 12 hours (minimum)
- dissertation research (CEE 699 Dissertation Research*), 12 hours (minimum)

*Students must be continuously enrolled in CEE 699 Dissertation Research once they begin work on the dissertation.

A list of courses that fulfill these requirements may be obtained from the departmental office in Graves Hall.

The Graduate Catalog is published annually. Students should obtain the most recent program requirements from their program advisors.

Elementary Education, Ed.S.

The educational specialist program in Elementary Education leads to Class AA Elementary certification.

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. A current program checklist may be obtained from the program office in 204 Graves Hall.

Students should consult their advisors each semester before registering.

Admission Requirements

Admission requires master’s level certification in Elementary Education. An applicant who holds both Class B Elementary certification AND Class A Reading is also eligible.

An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission.

Admission requirements for the Graduate School (Admission Criteria) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. A minimum of 30 hrs of appropriate work beyond the MA degree and the completion of a comprehensive exam are required for the educational specialist degree. Candidates must present a GPA of at least 3.50 on all courses in the program, with no grade below a C.

Foundations of Professional Studies:
- **BEF 503** History Of Amer Educn 3
- **BEF 507** Sociology Of Education
- **BEF 534** Multicultural Education
- **BEF 575** Found Educn Through Film
- **BEF 607** Readings In Soc Of Ed
- **BEF 650** Critical Race Theory In Educ
- **BEF 667** Multicult Soc Ed Leadership
- **BEF 681** Ethics And Education

Educational Research: 1, 2

<table>
<thead>
<tr>
<th>(Choose ONE from the following.)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 540 Statistical Methods In Educ</td>
<td></td>
</tr>
<tr>
<td>BER 545 Analy Variance In Educ</td>
<td></td>
</tr>
<tr>
<td>BER 600 Quant Research Methods</td>
<td></td>
</tr>
<tr>
<td>BER 603 Survey Research In Educ</td>
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<tr>
<td>BER 631 Inqry As Interp: Qual I</td>
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</tr>
<tr>
<td>BER 550 is required, in addition to another Educ Research choice, IF an evaluation of teaching and learning course was not part of the undergraduate program or another graduate program.</td>
<td></td>
</tr>
</tbody>
</table>

Teaching Field:
- **CIE 625** Res Sem Science Curriculum 3
- **CIE 626** Res Sem Social Studies Curricl 3
- **CIE 680** Sem In Math Educ Research 3
- **CRD 690** Advanced Seminar Crd 3

Additional Requirements:
- **CEE 695 or Practicum**
- **CIE 620** Design Res Classrm Teach or additional research course approved by advisor

Elective:
- Advisor-approved elective 3

Special Education Coursework:
- SPE 500 is only required if a special education survey course was not part of the undergraduate program or another graduate program.

Action Research (These courses are offered as the last courses in the program.):
- **CEE 687** Topical Research Review 3
- **CEE 697** Specialist Degree Res 3

Total Hours 30-33

1. BER 500 Intro Educatn Research or the equivalent is required before beginning the research courses.
2. The research courses must be taken before CEE 687 Topical Research Review.

A current program checklist may be obtained from the departmental office in 204 Graves Hall. A maximum of 6 hrs of approved transfer credit (maximum of nine hours from UAB/UAH) may be applied toward the degree.

Certification

The Alabama State Board of Education grants Class AA professional educator certification in Elementary (K-6). To be eligible, candidates must hold appropriate, prerequisite Class A certification and must complete all requirements for the EDS degree as described in this catalog, including a comprehensive exam. According to Alabama regulations, individuals admitted to a Class AA program based on a professional educator certificate from another state must earn the prerequisite Alabama certification before applying for Alabama Class AA (specialist level) certification.

Elementary Education, MA

Traditional Class A Program

The department offers a traditional Class A program for those with appropriate prerequisite certification in Elementary Education (or
an approved equivalent). This program leads to Alabama Class A certification in Elementary Education (K-6).

**Alternative Class A Program (Nontraditional, Initial Teacher Certification)**

The department offers an Alternative Class A program that does not require prior certification in a teaching field. This program leads to Alabama Class A certification in Elementary Education (K-6) with dual certification in Early Childhood (P-3) and is designed to allow individuals with undergraduate degrees in non-teaching fields to enter the field of education.

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. A current program checklist may be obtained from the program office in 204 Graves Hall. Students should consult their advisors each semester before registering.

**Traditional Class A Elementary (K-6) Certification**

**Admission Requirements**

In addition to meeting admission requirements for the Graduate School and the College of Education, applicants must hold appropriate prior certification in Elementary Education (or the approved equivalent). An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission. Admission requirements for the Graduate School (Admission Criteria (p. 11)) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

**Degree Requirements**

This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. A minimum of 30 hrs of course credit must be earned, and a comprehensive exam must be successfully completed. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

**Curriculum and Instruction**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 532</td>
<td>Elementary Sch Curric</td>
<td>3</td>
</tr>
<tr>
<td>CEE 574</td>
<td>Guiding Pupil Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Foundations of Professional Studies**

(Choose ONE of the following SDE approved diversity courses.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 503</td>
<td>History Of Amer Educn</td>
<td>3</td>
</tr>
<tr>
<td>BEF 507</td>
<td>Sociology Of Education</td>
<td></td>
</tr>
<tr>
<td>BEF 534</td>
<td>Multicultural Education</td>
<td></td>
</tr>
<tr>
<td>BEF 575</td>
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<td>BEF 650</td>
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<td></td>
</tr>
<tr>
<td>BEF 681</td>
<td>Ethics And Education</td>
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</tr>
</tbody>
</table>

**Educational Research**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
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<tr>
<td>BER 500</td>
<td>Intro Educatn Research</td>
<td>3</td>
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</tbody>
</table>

BER 550 is also required if an evaluation of teaching and learning course was not part of the undergraduate program or another graduate program.

**Teaching Field**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 565</td>
<td>Classics &amp; Modern Lit &amp; CEE 517</td>
<td></td>
</tr>
<tr>
<td>&amp; CEE 517</td>
<td>and Lang Arts In Elem Sch</td>
<td></td>
</tr>
<tr>
<td>CRD 510</td>
<td>Expanding Reading &amp; CRD 511</td>
<td></td>
</tr>
<tr>
<td>&amp; Beginning Reading</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEE 580</td>
<td>Concepts Elem School Math</td>
<td></td>
</tr>
<tr>
<td>&amp; CEE 581</td>
<td>and Math Curriculum Design</td>
<td></td>
</tr>
<tr>
<td>CEE 515</td>
<td>Science In Elementary School &amp; CEE</td>
<td></td>
</tr>
<tr>
<td>525</td>
<td>and Issues Trends Elem Sch Science</td>
<td></td>
</tr>
<tr>
<td>CEE 516</td>
<td>Social Sci In Elem Sch</td>
<td></td>
</tr>
<tr>
<td>&amp; CEE 526</td>
<td>and Implementing Social Studies</td>
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</tr>
</tbody>
</table>

**Additional Requirements/Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT 531</td>
<td>Computer Based Instruction</td>
<td>3</td>
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<tr>
<td>Advisor-approved elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPE 500</td>
<td>is required if a special education survey course was not part of the undergraduate program or another graduate program.</td>
<td>0-3</td>
</tr>
</tbody>
</table>

Total Hours: 30-36

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. Students should consult their advisors each semester before registering. A current program checklist should be obtained from the program office in 204 Graves Hall. Students may not count more than six hours in certain seminar/workshop/problems courses toward the completion of the degree. A maximum of 12 hours of transfer credit, if approved by the student’s advisor, may be applied toward the degree. Students should see their advisors regarding which courses are appropriate for transfer credit.

Additional requirements of the Graduate School and the College of Education are detailed in other sections of this catalog.

**Certification**

The Alabama State Board of Education grants Class A professional educator certification in Elementary Education (K-6). To be eligible, candidates must hold appropriate prerequisite certification and must complete all requirements for the MA degree in the chosen program as described in this catalog, including a comprehensive exam, state assessments (if applicable), and the Praxis subject assessment(s). According to Alabama regulations, individuals admitted to a Class A program based on a professional educator certificate from another state must earn the prerequisite Alabama certification before applying for Alabama Class A (master’s level) certification.

**Alternative Class A Elementary (K-6) with dual certification in Early Childhood (P-3) (Nontraditional, Initial Teacher Certification Program)**

**Admission Requirements**

An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission.

Admission requirements for the Graduate School (Admission Criteria (p. 11)) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

For admission to the Alternative Class A (non-traditional) program in elementary education, applicants must meet the following requirements:
• Transcript evaluation: Applicants should contact the Office of Student Services & Certification for a transcript evaluation to determine prerequisite courses.

• Degree requirement: An appropriate bachelor’s degree from a regionally accredited institution with a minimum overall GPA of 2.75 or a master’s degree with a GPA of at least 3.0 is required.

• Assessment of basic skills: Applicants must meet current basic skills requirements of the Alabama Educator Certification Assessment Program (AECAP). Effective September 1, 2017, passing scores on the Praxis Core Academic Skills for Educators Tests of mathematics, reading and writing are required (or passing scores on all components of the previously accepted Basic Skills assessment before 9/1/17). Information about the Praxis Core tests is available online at https://www.ets.org/praxis/al/al_teacher_ed or in the Office of Student Services & Certification (104 Carmichael Hall).

• General Studies and Teaching Field: For Alternative Class A in Elementary, applicants must have completed 12 hours of coursework in each of four areas: humanities, social science, science and mathematics. (This is called the 4 x 12 requirement.) The transcript evaluation will determine if an applicant meets the 4 x 12 requirement.

• Fingerprinting/background clearance

Degree Requirements
This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. A minimum of 39 semester hours of specific graduate credit plus some undergraduate prerequisites are required for certification. The program of study must be planned with an advisor. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C, and a passing score on a comprehensive exam is required.

<table>
<thead>
<tr>
<th>Curriculum and Instruction (Choose ONE course):</th>
</tr>
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<tbody>
<tr>
<td>CEE 532 or Elementary Sch Curric</td>
</tr>
<tr>
<td>CEE 574 Guiding Pupil Learning</td>
</tr>
</tbody>
</table>

**Foundations of Professional Studies**

| BEF 510 Phil Hist Socl Founds Ed *          | 3 |
| Technology                                  |
| CAT 531 Computer Based Instruction          | 3 |

**Teaching Field**

| CEE 401 Managing Effective Classrooms       | 3 |
| CEE 550 Intro Teach Elem School Scienc       | 3 |
| CEE 560 Intro Teaching Social Studies        | 3 |
| CEE 570 Teach Reading Elementary Schoo       | 3 |
| CEE 578 Teach Lang Arts In Elem School       | 3 |
| CEE 582 Teach Math Elem Altern Student       | 3 |
| CEE 595 Practicum                            | 3 |
| CEE 596 Advanced Practicum                   | 3 |

**Special Education Coursework**

SPE 500 is required if SPE 300 was not completed prior to unconditional admission to this program.

**Internship**

| CEE 597 Internship Elem Educ 1              | 6 |

Total Hours: 39-42

* Approved diversity course

1 The early childhood placement will include at least two of the following age groups: birth-age 3, age 3-5, and age 5-8. The elementary placement(s) will include upper and lower grades unless substantial field experiences are completed at both levels.

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. Students should consult their advisors each semester before registering.

**Certification**

The Alabama State Board of Education grants Class A professional educator certification in Elementary Education (K-6) and Early Childhood (P-3). To be eligible, candidates must complete all requirements of the Alternative Class A program, including a comprehensive exam, state assessments (if applicable), and the Praxis subject assessment(s).

**Elementary Education, Ph.D.**

The doctoral degree program is the highest professional degree and is designed primarily for top-level education practitioners and university researchers. Programs at the doctoral level are designed to prepare advanced practitioners for school positions or for professorships in institutions of higher education. The Doctor of Philosophy (PhD) is for students who intend to become researchers in a given field. Normally, three years of teaching are required to enter the PhD program. Program requirements include the acquisition of special skills that would be useful in conducting scholarly investigation and traditional research.

**Admission Requirements:**

To be considered for regular admission, applicants must present a GPA of 3.0 on a 4.0 scale and a GRE score of 300 or higher. Three years of teaching are also required.

**Degree Requirements:**

- major coursework (CEE/CIE/CRD), 24 hours
- doctoral core coursework, 12 hours
- doctoral seminar course (CIE 693 Workshop), 3 hours
- research coursework as specified, 18 hours (minimum)
- humanistic/behavioral courses, 12 hours (minimum)
- dissertation research (CEE 699 Dissertation Research*), 24 hours (minimum)

*Students must be continuously enrolled in CEE 699 Dissertation Research once they begin work on the dissertation.

A list of courses that fulfill these requirements may be obtained from the departmental office in Graves Hall.

The Graduate Catalog is published annually. Students should obtain the most recent program requirements from their program advisors.

**Secondary Education, Ed.D.**

The doctoral degree program is the highest professional degree and is designed primarily for top-level education practitioners and university researchers. Programs at the doctoral level are designed to prepare advanced practitioners for school positions or for professorships in institutions of higher education. The Doctor of Education (EdD) is for students who intend to become highly skilled practitioners and school leaders. Normally, three years of teaching are required to enter the EdD program. The EdD degree includes a focus on facilitating the development of action researchers and experienced practitioners.
Admission Requirements:
To be considered for regular admission, applicants must present a GPA of 3.0 on a 4.0 scale and a GRE score of 300 or higher. Three years of teaching are also required.

Degree Requirements:
- major field coursework (CSE/CIE/CRD), 27 hours
- subject field coursework, 24 hours
- research coursework, 12 hours (minimum)
- foundations of professional studies, 12 hours
- dissertation research, 12 hours (minimum)

A list of courses that fulfill these requirements may be obtained from the departmental office in Graves Hall.

The Graduate Catalog is published annually. Students should obtain the most recent program requirements from their program advisors.

Secondary Education, Ed.S.
Programs leading to Class AA certification in Secondary Education (6-12) are available in
- Biology
- Chemistry
- English for Speakers of Other Languages
- English Language Arts (comprehensive)
- Foreign Language (French or Spanish)
- General Science (comprehensive)
- Geography
- History
- Mathematics
- Physics
- Social Science (comprehensive)

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. A current program checklist may be obtained from the program office in 204 Graves Hall. Students should consult their advisors each semester before registering.

Admission Requirements
Admission requires appropriate, prerequisite master’s level certification.
An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission.

Admission requirements for the Graduate School (Admission Criteria) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog. See the Admission Criteria section of this catalog for more information.

Class AA Certification
The Alabama State Board of Education grants Class AA professional educator certification in Secondary Education (6-12) teaching fields and P-12 teaching fields. To be eligible, candidates must hold appropriate prerequisite certification and must complete all requirements of the State-approved program, including a comprehensive exam. According to Alabama regulations, individuals admitted to a Class AA program based on a professional educator certificate from another state must earn the prerequisite Alabama certification before applying for Alabama Class AA (specialist level) certification.

Degree Requirements
A minimum of 30 hours of appropriate work beyond the MA degree and the completion of a research project are required for the educational specialist degree.

Students must be certain that their planned programs meet all certification requirements according to programs approved by the state department of education. Approved program checklists are available from the program office.

NOTE: The comprehensive fields of general science, general social science, and English language arts require at least one course in two areas within the broader field as follows:
- English language arts must include courses from at least two of the following areas: EN, JN, COM or TH
- General science must include courses from at least two of the following areas: BSC, CH, PH or GEO.
- General social science must include courses from at least two of the following areas: HY, SOC, PY, PSC, GY or EC

Candidates moving from the comprehensive fields of general science or general social science to a single teaching field must earn passing scores on the appropriate Praxis subject assessment for certification in the single teaching field. For example, a student admitted with Class A general science certification who completes teaching field coursework only in physics must earn a passing score on the Praxis for physics to earn Class AA physics certification.

These course listings apply to candidates having appropriate prior certification who begin this program at UA on June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.50 on all courses in the program below, with no grade below a C.

Biology (6-12), Class AA

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>CSE 665</td>
</tr>
<tr>
<td>CSE 670</td>
</tr>
<tr>
<td>CSE 693 or Advanced Workshop</td>
</tr>
<tr>
<td>CSE 697</td>
</tr>
</tbody>
</table>

Foundations of Professional Studies:
(Choose ONE of these SDE approved diversity courses.)
BEF 503 | History Of Amer Educn |
BEF 507 | Sociology Of Education |
BEF 534 | Multicultural Education |
BEF 575 | Found Educn Through Film |
BEF 607 | Readings In Soc Of Ed |
BEF 650 | Critical Race Theory In Educ |
BEF 667 | Multicult Soc Ed Leadership |
BEF 681 | Ethics And Education |

Educational Research:
Choose BER 540, BER 600, or BER 631.

Teaching field courses (advisor approved, graduate level) 12

Additional Requirements:
CIE 625 | Res Sem Science Curriculum | 3 |
### Chemistry (6-12), Class AA

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 665</td>
<td>Sec School Science</td>
<td>3</td>
</tr>
<tr>
<td>CSE 670</td>
<td>Res &amp; Theory In Sec Ed</td>
<td>3</td>
</tr>
<tr>
<td>CSE 693 or 697</td>
<td>Advanced Workshop or Specialist Degree Res</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>33-36</td>
</tr>
</tbody>
</table>

**Teaching field courses in at least two fields (advisor approved, graduate level)**: 12

**Additional Requirements**:
- CIE 625 Design Res Classroom Teach 3
- **Total Hours**: 33-36

### English for Speakers of Other Languages (P-12), Class AA

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 663</td>
<td>Sec School English</td>
<td>3</td>
</tr>
<tr>
<td>CSE 670</td>
<td>Res &amp; Theory In Sec Ed</td>
<td>3</td>
</tr>
<tr>
<td>CSE 693 or 697</td>
<td>Advanced Workshop or Specialist Degree Res</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30-33</td>
</tr>
</tbody>
</table>

**Teaching field courses (advisor approved, graduate level)**: 12

**Additional Requirements**:
- CIE 625 Design Res Classroom Teach 3
- **Total Hours**: 30-33

### French or Spanish (6-12), Class AA

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 663</td>
<td>Sec School English</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30-33</td>
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</tbody>
</table>

**Teaching field courses (advisor approved, graduate level)**: 12

**Additional Requirements**:
- CIE 625 Design Res Classroom Teach 3
- **Total Hours**: 30-33

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### Foundations of Professional Studies:

- (Choose ONE of these SDE approved diversity courses.)
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

**Additional Requirements/Electives**:
- Advisor approved elective (600-level) 3

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### Educational Research:

- Choose BER 540, BER 600, or BER 631.

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### English Language Arts (6-12), Class AA

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 665</td>
<td>Sec School English</td>
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</tr>
<tr>
<td>CSE 670</td>
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<td>CSE 693 or 697</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>33-36</td>
</tr>
</tbody>
</table>

**Teaching field courses in at least two fields (advisor approved, graduate level)**: 12

**Additional Requirements**:
- CIE 625 Design Res Classroom Teach 3
- **Total Hours**: 33-36

---

### Foundations of Professional Studies:

- (Choose ONE of these SDE approved diversity courses.)
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

---

### Educational Research:

- Choose BER 540, BER 600, or BER 631.

---

**Total Hours**: 33-36

---

### Foundations of Professional Studies:

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- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

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**Total Hours**: 30-33

---

### Educational Research:

- Choose BER 540, BER 600, or BER 631.

---

**Total Hours**: 30-33

---

### Foundations of Professional Studies:

- (Choose ONE of these SDE approved diversity courses.)
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

---

**Total Hours**: 30-33

---

### Educational Research:

- Choose BER 540, BER 600, or BER 631.

---

**Total Hours**: 30-33

---

### Foundations of Professional Studies:

- (Choose ONE of these SDE approved diversity courses.)
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

---

**Total Hours**: 30-33

---

### Educational Research:

- Choose BER 540, BER 600, or BER 631.

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**Total Hours**: 30-33

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### Foundations of Professional Studies:

- (Choose ONE of these SDE approved diversity courses.)
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

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**Total Hours**: 30-33

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### Educational Research:

- Choose BER 540, BER 600, or BER 631.

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**Total Hours**: 30-33

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### Foundations of Professional Studies:

- (Choose ONE of these SDE approved diversity courses.)
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

**Educational Research**:
- Choose BER 540, BER 600, or BER 631.

---

**Total Hours**: 30-33
### BEF 681 Ethics And Education

**Educational Research:** Choose BER 540, BER 600, or BER 631. 3

**Teaching field courses in ONE foreign language (advisor approved, graduate level)** 12

**Additional Requirements:**
- CIE 656 Sem For Language Eductn Resear 3
- SPE 500 is only required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

Total Hours 30-33

### French or Spanish (P-12), Class AA

**Required Courses:**
- Required 3-hour course (see advisor) 3
- Choose ONE option: OPTION1: CEE 687 and CEE 697 or OPTION 2: CSE 670 and CSE 693 or CSE 697 6

**Foundations of Professional Studies:**
(Choose ONE of these SDE approved diversity courses.) 3
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadershp
- BEF 681 Ethics And Education

**Educational Research:**
- BER 540 or Statistical Methods In Educ 3
- BER 631 Inqy As Interp: Qual I

**Teaching field courses in ONE foreign langauge (advisor approved, graduate level)** 12

**Additional Requirements:**
- CIE 656 Sem For Language Eductn Resear 3
- SPE 500 is only required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

Total Hours 30-33

### General Social Science (6-12), Class AA

**Required Courses:**
- CSE 664 Sec Sch Social Science 3
- CSE 670 Res & Theory In Sec Ed 3
- CSE 693 or Advanced Workshop 3
- CSE 697 Specialist Degree Res 3

**Foundations of Professional Studies:**
(Choose ONE of these SDE approved diversity courses.) 3
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadershp
- BEF 681 Ethics And Education

**Educational Research:**
- Choose BER 540, BER 600, or BER 631. 3
- Teaching field courses in at least two areas-BSC, PH, or GEO (advisor approved, graduate level) 12

**Additional Requirements:**
- CIE 625 Res Sem Science Curriculum 3
- CIE 620 Design Res Classrm Teach 3
- SPE 500 is only required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

Total Hours 30-33

### General Science (6-12), Class AA

**Required Courses:**
- CSE 664 Sec School Science 3
- CSE 670 Res & Theory In Sec Ed 3
- CSE 693 or Advanced Workshop 3
- CSE 697 Specialist Degree Res 3

**Foundations of Professional Studies:**
(Choose ONE of these SDE approved diversity courses.) 3
- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadershp
- BEF 681 Ethics And Education

**Educational Research:**
- Choose BER 540, BER 600, or BER 631. 3
- Teaching field courses in at least two fields-HY, PY, SO, SC, GA or EC (advisor approved, graduate level) 12

**Additional Requirements:**
- CIE 626 Res Sem Social Studies Curricul 3
- SPE 500 is only required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

Total Hours 30-33

### Geography (6-12), Class AA

**Required Courses:**
- CSE 664 Sec Sch Social Science 3
- CSE 670 Res & Theory In Sec Ed 3
- CSE 693 or Advanced Workshop 3
- CSE 697 Specialist Degree Res 3

**Foundations of Professional Studies:**
(Choose ONE of these SDE approved diversity courses.) 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BEF 503</td>
<td>History Of Amer Educn</td>
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<tr>
<td>BEF 507</td>
<td>Sociology Of Education</td>
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<td>BEF 575</td>
<td>Found Educn Through Film</td>
</tr>
<tr>
<td>BEF 607</td>
<td>Readings In Soc Of Ed</td>
</tr>
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<td>BEF 650</td>
<td>Critical Race Theory In Educ</td>
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<tr>
<td>BEF 667</td>
<td>Multicult Soc Ed Leadership</td>
</tr>
<tr>
<td>BEF 681</td>
<td>Ethics And Education</td>
</tr>
</tbody>
</table>

**Educational Research:**

Educational Research: Choose BER 540, BER 600, or BER 631. 3

**Teaching field courses (advisor approved, graduate level)** 12

**Additional Requirements:**

- CIE 626  
  Res Sem Social Studies Curric  3  
- SPE 500 is only required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

**Total Hours** 30-33

---

### History (6-12), Class AA

**Required Courses:**

- CSE 664  
  Sec Sch Social Science  3  
- CSE 670  
  Res & Theory In Sec Ed  3  
- CSE 693 or Advanced Workshop  3  
- CSE 697  
  Specialist Degree Res  3

**Foundations of Professional Studies:**

(Choose ONE of these SDE approved diversity courses.) 3

- BEF 503  
  History Of Amer Educn  3  
- BEF 507  
  Sociology Of Education  3  
- BEF 534  
  Multicultural Education  3  
- BEF 575  
  Found Educn Through Film  3  
- BEF 607  
  Readings In Soc Of Ed  3  
- BEF 650  
  Critical Race Theory In Educ  3  
- BEF 667  
  Multicult Soc Ed Leadership  3  
- BEF 681  
  Ethics And Education  3

**Educational Research:**

Choose BER 540, BER 600, or BER 631. 3

**Teaching field courses (advisor approved, graduate level)** 12

**Additional Requirements:**

- CIE 626  
  Res Sem Social Studies Curric  3  
- SPE 500 is only required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

**Total Hours** 30-33

---

### Mathematics (6-12), Class AA

**Required Courses:**

- CSE 666  
  Sec School Mathematics  3  
- CSE 670  
  Res & Theory In Sec Ed  3  
- CIE 680  
  Sem In Math Educ Research  3  
- CSE 693 or Advanced Workshop  3  
- CSE 697  
  Specialist Degree Res  3

**Foundations of Professional Studies:**

(Choose ONE of these SDE approved diversity courses.) 3

- BEF 503  
  History Of Amer Educn  3  
- BEF 507  
  Sociology Of Education  3  
- BEF 534  
  Multicultural Education  3  
- BEF 575  
  Found Educn Through Film  3  
- BEF 607  
  Readings In Soc Of Ed  3  
- BEF 650  
  Critical Race Theory In Educ  3  
- BEF 667  
  Multicult Soc Ed Leadership  3  
- BEF 681  
  Ethics And Education  3

**Educational Research:**

Choose two from BER 540, BER 600, and BER 631. 6

**Teaching field courses (advisor approved, graduate level)** 10-12

**Additional Requirements:**

- CSE 675 is required if CSE 575 was not completed in the MA program. 0-3  
- SPE 500 is required if a special education survey course was not completed as part of the undergraduate program or another graduate program. 0-3

**Total Hours** 31-39

---

### Postsecondary Instruction

Graduate students in the EdS program who have an interest in teaching in postsecondary institutions may take advantage of the program’s flexibility to acquire a maximum of 18 hours in cognate field courses.
Students who have this option in mind should coordinate the program of study carefully with their advisors.

Secondary Education, MA

Traditional Class A and Alternative Class A certification programs in Secondary Education (6-12) are available in

- Biology
- Chemistry
- English for Speakers of Other Languages
- English Language Arts (comprehensive)
- Foreign Language (French, German, Latin, or Spanish)
- General Science (comprehensive)
- Geography
- History
- Mathematics
- Physics
- Social Science (comprehensive)

Also offered is a master’s degree program leading to Class A certification as a Reading Specialist (P-12).

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. A current program checklist may be obtained from the program office in 204 Graves Hall. Students should consult their advisors each semester before registering.

Requirements for Secondary Education Teaching Fields

Traditional Class A Programs

Admission Requirements

In addition to meeting admission requirements for the Graduate School and the College of Education, applicants must hold appropriate prior certification (or the approved equivalent). An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission.

Admission requirements for the Graduate School (Admission Criteria) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

See the Admission Criteria section of this catalog for more information.

Class A Certification

The Alabama State Board of Education grants Class A professional educator certification in Secondary Education (6-12) teaching fields and P-12 teaching fields. To be eligible, candidates must hold appropriate prerequisite certification and must complete all requirements for the MA degree in the chosen program as described in this catalog, including a comprehensive exam, state assessments (if applicable), and the Praxis subject assessment(s). According to Alabama regulations, individuals admitted to a Class A program based on a professional educator certificate from another state must earn the prerequisite Alabama certification before applying for Alabama Class A (master’s level) certification.

Degree Requirements

A minimum of 30 hours of course credit must be earned; see specific program checklist. The program of study must be planned with an advisor.

NOTE: The comprehensive fields of General Science, General Social Science, and English Language Arts require at least one course in two areas within the broader field as follows:

- English Language Arts must include courses from at least two of the following areas: EN, JN, COM, or TH
- General Science must include courses from at least two of the following areas: BSC, CH, PH, or GEO.
- General Social Science must include courses from at least two of the following areas: HY, SOC, PY, PSC, GY, or EC

Candidates moving from the comprehensive fields of general science or general social science to a single teaching field must earn passing scores on the appropriate Praxis subject assessment for certification in the single teaching field. For example, a student admitted with Class B General Science certification who completes teaching field coursework only in biology must earn a passing score on the Praxis for biology to earn Class A Biology certification. Individuals who intend to earn Class AA certification in a secondary education field must hold valid Class A certification in the same teaching field as the Class AA program.

These course listings apply to candidates having appropriate prior certification who begin this program at UA on June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the graduate program.

Biology (6-12)

<table>
<thead>
<tr>
<th>Required courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 530 Mod Sec School Program 3</td>
</tr>
<tr>
<td>CSE 576 Improving Science Teaching 3</td>
</tr>
<tr>
<td>CSE 565 Improv Science Instr 3</td>
</tr>
</tbody>
</table>

Teaching field courses (graduate level) 12

Foundations of Professional Studies:

(Choose ONE of these SDE approved diversity courses.) 3

- Bef 503 History Of Amer Educn
- Bef 507 Sociology Of Education
- Bef 534 Multicultural Education
- Bef 575 Found Educn Through Film
- Bef 607 Readings In Soc Of Ed
- Bef 650 Critical Race Theory In Educ
- Bef 667 Multicult Soc Ed Leadership
- Bef 681 Ethics And Education

Educational Research:

- Ber 500 Intro Educatn Research 3

Additional requirements:

- Cat 531 Computer Based Instruction 3
- SPE 500 is only required if a survey of special education course was not taken as part of the undergraduate program or another graduate program.

Total Hours 30-33
Chemistry (6-12)

**Required courses:**
- CSE 530 Mod Sec School Program
- CSE 576 Improving Science Teaching
- CSE 565 Improving Science Instruction

**Teaching field courses (graduate level, advisor approved)**
- 12

**Foundations of Professional Studies:**
- (Choose ONE of these SDE approved diversity courses.)
  - BEF 503 History Of Amer Educn
  - BEF 507 Sociology Of Education
  - BEF 534 Multicultural Education
  - BEF 575 Found Educn Through Film
  - BEF 607 Readings In Soc Of Ed
  - BEF 650 Critical Race Theory In Educ
  - BEF 667 Multicult Soc Ed Leadership
  - BEF 681 Ethics And Education

**Educational Research:**
- BER 500 or Intro Educn Research
- CSE 595 Practicum

**Additional requirements/electives:**
- CAT 531 Computer Based Instruction

SPE 500 is only required if a survey of special education course was not taken as part of the undergraduate program or another graduate program.

**Total Hours**
- 30-33

---

**English for Speakers of Other Languages (P-12)**

**Required Courses:**
- CIE 582 Dev Util Instr Matrls

**Foundations of Professional Studies:**
- BEF 534 Multicultural Education

**Technology:**
- CAT 531 Computer Based Instruction

**Educational Research:**
- CIE 578 Second Lang Test Assess Evaln

**Teaching Field:**
- CIE 579 Tch English For Lang Prog/Pol
- CIE 576 Linguistics Classroom Teachers
- CIE 577 Second Language Acquisition
- Choose ONE from CRD 510 or CRD 511 or CEE 565 or CSE 555

**Internship:**
- CIE 597 Elementary/Secondary Internsh

**Additional Requirements:**
- SPE 500 is only required if a special education survey course was not part of the undergraduate program or another graduate program.

**Total Hours**
- 30-33

---

**English Language Arts (6-12)**

**Required Courses:**
- CSE 530 Mod Sec School Program
- CSE 563 Improving English Instruct

**Teaching field courses (graduate level EN, JN, COM or TH)**
- 12

**Foundations of Professional Studies:**
- (Choose ONE of these SDE approved diversity courses.)
  - BEF 503 History Of Amer Educn
  - BEF 507 Sociology Of Education
  - BEF 534 Multicultural Education
  - BEF 575 Found Educn Through Film
  - BEF 607 Readings In Soc Of Ed
  - BEF 650 Critical Race Theory In Educ
  - BEF 667 Multicult Soc Ed Leadership
  - BEF 681 Ethics And Education

**Educational Research:**
- BER 500 Intro Educn Research

**Additional requirements/electives:**
- CAT 531 Computer Based Instruction

SPE 500 is only required if a survey of special education course was not taken as part of the undergraduate program or another graduate program.

**Total Hours**
- 30-33

---

**French, German, Latin, OR Spanish (6-12)**

**Required Courses:**
- CSE 530 Mod Sec School Program
- CIE 567 Improv Foreign Lang Instruct

**Teaching field courses in one foreign language (advisor approved, graduate level)**
- 12

**Foundations of Professional Studies:**
- (Choose BEF 534 or ONE advisor-approved course from these SDE approved diversity courses.)
  - BEF 503 History Of Amer Educn
  - BEF 507 Sociology Of Education
  - BEF 575 Found Educn Through Film
  - BEF 607 Readings In Soc Of Ed
  - BEF 650 Critical Race Theory In Educ
  - BEF 667 Multicult Soc Ed Leadership
  - BEF 681 Ethics And Education

**Educational Research:**
- CIE 578 or Second Lang Test Assess Evaln
- BER 500 Intro Educn Research

**Additional requirements/electives:**
- CAT 531 Computer Based Instruction

**Total Hours**
- 30-33
SPE 500 is only required if a special education survey course was not taken as part of the undergraduate program or another graduate program.

**French, German, Latin, OR Spanish (P-12)**

<table>
<thead>
<tr>
<th>Required Courses:</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 574 Guiding Pupil Learning</td>
<td>3</td>
</tr>
<tr>
<td>CSE 530 Mod Sec School Program</td>
<td>3</td>
</tr>
<tr>
<td>CIE 567 Improv Foreign Lang Instruct</td>
<td>3</td>
</tr>
<tr>
<td>CIE 578 Second Lang Test Assess Evaln</td>
<td>3</td>
</tr>
<tr>
<td><strong>Teaching field courses in ONE foreign language (advisor approved, graduate level)</strong></td>
<td>12</td>
</tr>
<tr>
<td>Foundations of Professional Studies:</td>
<td></td>
</tr>
<tr>
<td>(Choose BEF 534 or ONE advisor-approved course from these SDE approved diversity courses.)</td>
<td>3</td>
</tr>
<tr>
<td>BEF 534 Multicultural Education</td>
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<td><strong>Additional requirements:</strong></td>
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<tr>
<td>CAT 531 Computer Based Instruction</td>
<td>3</td>
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<td>SPE 500 is only required if a special education survey course was not taken as part of the undergraduate program or another graduate program.</td>
<td>0-3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>30-33</td>
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</table>

**General Social Science (6-12)**

<table>
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<tr>
<th>Required Courses:</th>
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<tbody>
<tr>
<td>CSE 530 Mod Sec School Program</td>
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<tr>
<td>CSE 564 Imprv Soc Sci Instr</td>
<td>3</td>
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<tr>
<td><strong>Teaching field courses (graduate level HY, SOC, PY, PSC, GY or EC)</strong></td>
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<td>Foundations of Professional Studies:</td>
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<td>(Choose one of these SDE approved diversity courses.)</td>
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<td>BEF 503 History Of Amer Educn</td>
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<tr>
<td><strong>Educational Research:</strong></td>
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<td>BER 500 Intro Educatn Research</td>
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<td>CAT 531 Computer Based Instruction</td>
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**General Science (6-12)**

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<tr>
<td>CSE 595 Practicum</td>
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<td><strong>Additional requirements:</strong></td>
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</table>

**Geography (6-12)**

<table>
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<td>CSE 530 Mod Sec School Program</td>
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</tr>
<tr>
<td><strong>Teaching field courses (graduate level, advisor approved)</strong></td>
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<td>BEF 667 Multicult Soc Ed Leadership</td>
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</tr>
</tbody>
</table>
### History (6-12)

**Required Courses:**
- CSE 530: Mod Sec School Program 3
- CSE 564: Improv Soc Sci Instr 3

**Teaching field courses (graduate level):** 12

**Foundations of Professional Studies:**
(Choose one of these SDE approved diversity courses.) 3
- BEF 503: History Of Amer Educn
- BEF 507: Sociology Of Education
- BEF 534: Multicultural Education
- BEF 575: Found Educn Through Film
- BEF 607: Readings In Soc Of Ed
- BEF 650: Critical Race Theory In Educ
- BEF 667: Multicult Soc Ed Leadership
- BEF 681: Ethics And Education

**Educational Research:**
- BER 500: Intro Educatn Research 3

**Additional requirements/electives:**
- CAT 531: Computer Based Instruction 3

SPE 500 is only required if a survey of special education course was not taken as part of the undergraduate program or another graduate program.

Total Hours 30-33

### Mathematics (6-12)

**Required Courses:**
- CSE 530: Mod Sec School Program 3
- CSE 566: Improv Soc Sci Instr 3
- CSE 575: Devlpn Math Teaching w/Tech 3

**Teaching field courses (graduate level, advisor approved)** 12

**Foundations of Professional Studies:**
(Choose one of these SDE approved diversity courses.) 3
- BEF 503: History Of Amer Educn
- BEF 507: Sociology Of Education
- BEF 534: Multicultural Education
- BEF 575: Found Educn Through Film
- BEF 607: Readings In Soc Of Ed
- BEF 650: Critical Race Theory In Educ
- BEF 667: Multicult Soc Ed Leadership
- BEF 681: Ethics And Education

**Educational Research:**
- BER 500: Intro Educatn Research 3

**Additional requirements/electives:**
- CAT 531: Computer Based Instruction 3

SPE 500 is only required if a survey of special education course was not taken as part of the undergraduate program or another graduate program.

Total Hours 30-33

### Physics (6-12)

**Required courses:**
- CSE 530: Mod Sec School Program 3
- CSE 576: Improving Science Teaching 3
- CSE 565: Improvng Scienct Instr 3

**Teaching field courses (graduate level, advisor approved)** 12

**Foundations of Professional Studies:**
(Choose one of these SDE approved diversity courses.) 3
- BEF 503: History Of Amer Educn
- BEF 507: Sociology Of Education
- BEF 534: Multicultural Education
- BEF 575: Found Educn Through Film
- BEF 607: Readings In Soc Of Ed
- BEF 650: Critical Race Theory In Educ
- BEF 667: Multicult Soc Ed Leadership
- BEF 681: Ethics And Education

**Educational Research:**
- BER 500 or Intro Educatn Research 3
- CSE 595: Practicum 3

**Additional requirements:**
- CAT 531: Computer Based Instruction 3

SPE 500 is only required if a survey of special education course was not taken as part of the undergraduate program or another graduate program.

Total Hours 30-33

### Reading Specialist (P-12)*

**Foundations of Professional Studies:**
- CIE 577: Second Language Acquisition ** 3

**Instructional Support Area:**
- CRD 510: Expanding Reading 3
- CRD 511: Beginning Reading 3
- CEE 565 or Classics & Modern Lit 3
- CSE 555: Adolescent Literature 3
- CEE 517 or Lang Arts In Elemy Sch 3
- CSE 563: Improvng English Instr 3
- CRD 590: Seminar In Literacy Coaching 3
- CRD 654: At Risk Readers 3

**Educational Research:**
- BER 500 or Intro Educatn Research 3
- BER 550: Eval Classroom Learning
Admission to an Alternative Class A program requires admission to the Graduate School and the completion of specified undergraduate requirements. See the Admission Criteria section of this catalog for more information.

Admission to Reading Specialist (P-12) requires two full years of full-time teaching experience. The Praxis for Teaching Reading is also required for applicants who hold the prerequisite certification in an area other than Early Childhood, Elementary, or Collaborative (K-6).

Alternative Class A (Master’s-Level), Nontraditional, Initial Teacher Certification Program

The department of Curriculum & Instruction offers Alternative Class A programs that do not require prior certification in a teaching field. These programs lead to Alabama Class A certification in Secondary Education (6-12) and are designed to allow individuals with undergraduate degrees in non-teaching fields to enter the field of education.

Admission

An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission.

Admission requirements for the Graduate School (Admission Criteria) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

See the Admission Criteria section of this catalog for more information.

Admission to an Alternative Class A program requires admission to the Graduate School and the completion of specified undergraduate prerequisite courses. For admission to the Alternative Class A (non-traditional) program in secondary education, applicants must meet the following requirements:

- **Transcript evaluation:** Applicants should contact the Office of Student Services & Certification for a transcript evaluation to determine prerequisite courses and other requirements.
- **Degree requirement:** An appropriate bachelor’s degree from a regionally accredited institution with a minimum overall GPA of 2.75 OR a master’s degree with a GPA of at least 3.0 is required.
- **Assessment of basic skills:** Applicants must meet current basic skills requirements of the Alabama Educator Certification Assessment Program (AECAP). Effective September 1, 2017, passing scores on the Praxis Core Academic Skills for Educators Tests of mathematics, reading and writing are required (or passing scores on all components of the previously accepted Basic Skills assessment before 9/1/17). Information about the Praxis Core tests is available online at https://www.ets.org/praxis/al/al_teacher_ed or in the Office of Student Services & Certification (104 Carmichael Hall).
- **Teaching Field:** For single teaching fields at the secondary level (6-12), applicants must have an academic content major (or the equivalent) in the teaching field OR passing scores on the appropriate Praxis subject assessment. For comprehensive teaching fields at the secondary level (English Language Arts, General Science, or General Social Science), applicants must have an academic content major (or the equivalent) in the teaching field plus one course in each of the four areas of the teaching field OR passing scores on the appropriate Praxis subject assessment. For English for Speakers of Other Languages (P-12), applicants must have an academic content major (or the equivalent) in English or a foreign language OR passing scores on the appropriate Praxis subject assessment. The transcript evaluation will determine if an applicant meets the teaching field requirement.

- **Fingerprinting/background clearance**

### Alternative Class A Certification

The Alabama State Board of Education grants Class A professional educator certification in Secondary Education (6-12) teaching fields and P-12 teaching fields. To be eligible, candidates must complete all requirements of the Alternative Class A program, including a comprehensive exam, state assessments (if applicable), and the Praxis subject assessment(s).

### Alternative Class A Requirements

A minimum of 42 semester hours of specific graduate credit plus some undergraduate prerequisites are required for the certificate. The program of study must be planned with an advisor.

These course listings apply to candidates having completed a baccalaureate degree at a regionally accredited college or university who begin the program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program below, with no grade below a C.

### Biology (6-12), Alternative Class A

<table>
<thead>
<tr>
<th>Curriculum and Teaching:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 565</td>
</tr>
<tr>
<td>CSE 592</td>
</tr>
<tr>
<td>CSE 586</td>
</tr>
</tbody>
</table>

**Teaching field courses (advisor approved, graduate level)** 12

<table>
<thead>
<tr>
<th>Professional Studies:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 510</td>
</tr>
</tbody>
</table>

**Evaluation of Teaching and Learning:**

| BER 550 | Eval Classroom Learning | 3 |

**Literacy:**

| CRD 512 | Impro Read Second Schools | 3 |

**Special Education coursework:**

| SPE 500 is required if SPE 300 was not completed prior to unconditional admission | 0-3 |

**Full-time Internship:**

| CSE 597 | Internship | 6 |

**Total Hours** 36-39

* SDE approved diversity course

### Chemistry (6-12), Alternative Class A

<table>
<thead>
<tr>
<th>Curriculum and Teaching:</th>
</tr>
</thead>
<tbody>
<tr>
<td>or advisor-approved research course</td>
</tr>
<tr>
<td>Internship and Practicum:</td>
</tr>
<tr>
<td>CRD 593</td>
</tr>
<tr>
<td>CRD 595</td>
</tr>
<tr>
<td>CRD 695</td>
</tr>
<tr>
<td>CRD 696</td>
</tr>
</tbody>
</table>

**Additional requirements:**

| SPE 500 is only required if a special education survey course was not part of the undergraduate program or another graduate program | 0-3 |

**Total Hours** 36-39

* Admission to Reading Specialist (P-12) requires two full years of full-time teaching experience. The Praxis for Teaching Reading is also required for applicants who hold the prerequisite certification in an area other than Early Childhood, Elementary, or Collaborative (K-6).

**SDE approved diversity course**
### English for Speakers of Other Languages (P-12), Alternative Class A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIE 580</td>
<td>Teaching Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>CIE 592</td>
<td>Field Work</td>
<td>3</td>
</tr>
<tr>
<td>CIE 595</td>
<td>Improv Sec Field English</td>
<td>3</td>
</tr>
</tbody>
</table>

**Teaching field courses (graduate level EN, JN, COM, or TH)**: 12

**Professional Studies:**
- BEF 510: Phil Hist Socl Founds Ed * 3
- Evaluation of Teaching and Learning:
  - BER 550: Eval Classroom Learning 3
- Literacy:
  - CRD 512: Impr Read Second Schools 3
- Special Education coursework:
  - SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

**Full-time Internship:**
- CSE 597: Internship 6

Total Hours: 36-39

* SDE approved diversity course

### French, German, Latin, or Spanish (6-12)-Alternative Class A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIE 567</td>
<td>Improv Foreign Lang Instruct</td>
<td>3</td>
</tr>
<tr>
<td>CIE 580</td>
<td>Teaching Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>CIE 592</td>
<td>Field Work</td>
<td>3</td>
</tr>
</tbody>
</table>

**Teaching field courses in ONE foreign language (advisor approved, graduate level)**: 12

**Foundations of Professional Studies:**
- BEF 510: Phil Hist Socl Founds Ed ** 3
- Evaluation of Teaching and Learning:
  - CIE 578: Second Lang Test Assess Evaln 3
- Literacy:
  - CRD 512: Impr Read Second Schools 3
- Special Education coursework:
  - SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

**Full-time Internship:**
- CSE 597: Internship 6

Total Hours: 36-39

* CIE 580 and CSE 592 must be taken concurrently.
** SDE approved diversity course
*** At least 3 hours in the teaching field must be in foreign language study abroad or advisor-approved graduate course in foreign language and/or foreign culture.

### French, German, Latin, or Spanish (P-12)-Alternative Class A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
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<td>Improv Foreign Lang Instruct</td>
<td>3</td>
</tr>
<tr>
<td>CIE 580</td>
<td>Teaching Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

**Teaching field courses (graduate level EN, JN, COM, or TH)**: 12

**Professional Studies:**
- BEF 510: Phil Hist Socl Founds Ed * 3
- Evaluation of Teaching and Learning:
  - BER 550: Eval Classroom Learning 3
- Literacy:
  - CRD 512: Impr Read Second Schools 3
- Special Education coursework:
  - SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

**Full-time Internship:**
- CSE 597: Internship 6

Total Hours: 36-39

* SDE approved diversity course

### French, German, Latin, or Spanish (P-12)-Alternative Class A

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
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<td>3</td>
</tr>
<tr>
<td>CIE 580</td>
<td>Teaching Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

**Teaching field courses (graduate level EN, JN, COM, or TH)**: 12

**Professional Studies:**
- BEF 510: Phil Hist Socl Founds Ed * 3
- Evaluation of Teaching and Learning:
  - BER 550: Eval Classroom Learning 3
- Literacy:
  - CRD 512: Impr Read Second Schools 3
- Special Education coursework:
  - SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

**Full-time Internship:**
- CSE 597: Internship 6

Total Hours: 36-39

* SDE approved diversity course

**Teaching field courses must include at least two fields (EN, JN, COM, or TH).**
CIE 592  Field Work  
Teaching field courses in ONE foreign language (advisor approved, graduate level) 12

Foundations of Professional Studies:
BEF 510  Phil Hist Socl Founds Ed  3

Evaluation of Teaching and Learning:
CIE 578  Second Lang Test Assess Evaln  3

Literacy:
CRD 512  Impr Read Second Schools  3

Special Education coursework:
SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

Full-time Internship:
CIE 597  Elementary/Secondary Internsh  6

Total Hours 36-39

*  CIE 580 and CSE 592 must be taken concurrently.
**  SDE approved diversity course
***  At least 3 hours in the teaching field must be in foreign language study abroad or advisor-approved graduate course in foreign language and/or foreign culture.

General Science (6-12), Alternative Class A

Curriculum and Teaching:
CSE 565  Improvg Science Instr  3
CSE 586  Teach Sec School Science  3
CSE 592  Field Work  3

Teaching field courses (advisor approved, graduate level BSC, CH, PH, or GEO) 12

Professional Studies:
BEF 510  Phil Hist Socl Founds Ed  3

Evaluation of Teaching and Learning:
BER 550  Eval Classroom Learning  3

Literacy:
CRD 512  Impr Read Second Schools  3

Special Education coursework:
SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

Full-time Internship:
CSE 597  Internship  6

Total Hours 39-42

*  SDE approved diversity course
**  Teaching field courses must include at least two fields.

History (6-12), Alternative Class A

Curriculum and Teaching:
CSE 587  Teach Sec School Soc Sci  3
CSE 592  Field Work  3
CSE 564  Improvg Soc Sci Instr  3
CSE 585  Inquiry in Social Studies  3

Teaching field courses (advisor approved, graduate level) 12

Professional Studies:
BEF 510  Phil Hist Socl Founds Ed  3

Evaluation of Teaching and Learning:
BER 550  Eval Classroom Learning  3

Literacy:
CRD 512  Impr Read Second Schools  3

Special Education coursework:
SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

Full-time Internship:
CSE 597  Internship  6

Total Hours 39-42

*  SDE approved diversity course
Postsecondary Instruction

Graduate students in the MA program who have an interest in teaching in postsecondary institutions may take advantage of the program’s flexibility to acquire a maximum of 18 hours in cognate field courses. Students who have this option in mind should coordinate the program of study carefully with their advisors.

Secondary Education, Ph.D.

The doctoral degree program is the highest professional degree and is designed primarily for top-level education practitioners and university researchers. Programs at the doctoral level are designed to prepare advanced practitioners for school positions or for professorships in institutions of higher education. The Doctor of Philosophy (PhD) is for students who intend to become researchers in a given field. Normally, three years of teaching are required to enter the PhD program. Program requirements include the acquisition of special skills that would be useful in conducting scholarly investigation and traditional research.

Admission Requirements:

To be considered for regular admission, applicants must present a GPA of 3.0 on a 4.0 scale and a GRE score of 300 or higher. Three years of teaching are also required.

Degree Requirements:

- major field coursework (CSE/CIE/CRD), 24 hours
- minor field coursework (relevant to content/discipline/subject specific/teaching field), 24 hours
- research coursework, 15 hours (minimum)
- foundations of professional studies, 12 hours
- dissertation research, 24 hours (minimum)

A list of courses that fulfill these requirements may be obtained from the departmental office in Graves Hall.

The Graduate Catalog is published annually. Students should obtain the most recent program requirements from their program advisors.

See the Admission Criteria section of this catalog for more information.

Department of Educational Leadership, Policy, and Technology Studies (AEL, AHE, AIL, BEF, CAT)

The department offers Class A and Class AA certification programs in educational leadership, master’s degrees in educational leadership and higher education administration, EdS degrees in educational leadership, and EdD and PhD degrees in educational leadership, higher education administration, and instructional leadership. Within the Instructional Leadership doctorate, students may also pursue concentrations in Instructional Technology or Social and Cultural Studies in Education. The department provides learning opportunities for educators who hold or aspire to leadership responsibilities in educational settings. Courses are designed to provide students with technical, interpersonal, and conceptual skills essential to theory and practice.

- Majors
  - Educational Leadership (MA) (p. 423)
  - Educational Leadership (EdS) (p. 422)
  - Educational Leadership (EdD) (p. 418)
  - Higher Education Administration (MA) (p. 425)
Education Programs

- Higher Education Administration (EdD) (p. 425)
- Higher Education Administration (PhD) (p. 425)
- Instructional Leadership (EdD) (p. 426)
- Instructional Leadership (PhD) (p. 427)
- Instructional Technology (MA) (p. 429)
- College Teaching (Graduate Certificate) (p. 418)
- Instructional Technology (Graduate Certificate) (p. 428)

Educational Leadership

Degrees offered by the Educational Leadership Program include the MA, EdS, EdD, and PhD. In addition, study options are available to provide eligibility for both Class A and Class AA certification. Admission and degree requirements for the Graduate School, the College of Education, and the ELPTS department are detailed in earlier sections of this catalog.

Instructional Leadership

The Instructional Leadership Program is dedicated to the advancement of knowledge, the improvement of professional practice, and service to learning communities. We develop future scholars, researchers, and instructional leaders for schools, colleges, and other learning institutions. Our work is guided by the principles of reflective practice, professional growth, individual responsibility, the pursuit of social justice, an ethic of caring, and a commitment to the communities we serve. The program differs from the one in educational administration in that it focuses primarily on the development of leaders with expertise in fields such as curriculum, instruction, technology, and the social and cultural factors influencing learning. We also focus on training for distributive and shared leadership teams.

Higher Education Administration

The Higher Education Administration Program is exclusively graduate-level. Through its varied course offerings and structured learning experiences, it meaningfully serves a broad clientele, especially current and future administrators of two- and four-year colleges and universities. Course offerings are designed primarily to train, sensitize, and broaden the information base of administrators and personnel already affiliated with institutions of higher learning, and to prepare others for employment with institutions of higher learning in Alabama, the Southeast, and the nation. The program offerings also complement other courses of study undertaken by graduate students pursuing other majors within the area, the College, and the University. The program in higher education administration offers the following degrees: the MA, EdD, and PhD.

Computers and Applied Technology

The Computers and Applied Technology Program provides supporting coursework in computer technology for students throughout the College.

Educational Leadership

AEL521 Leadership for Improvement
Hours 3
Prepares prospective educational administrators for grade P-12 to provide the instructional leadership for continuous improvement of schools. Focuses on knowledge and understanding about learning methods and strategies for program planning, design, implementation and evaluation.
Prerequisite(s): SPE 300 or SPE 500

AEL522 Teaching and Learning
Hours 3
Places emphasis on developing the school leader’s knowledge of teaching and learning and her/his abilities to lead, coach, participate in and enhance teacher dialogue about student learning.
Prerequisite(s): SPE 300 or SPE 500

AEL523 Human Resource Development
Hours 3
Basic concepts of effective supervision, including supervisory roles and functions, communicative interaction and formative and summative strategies for improving instruction.
Prerequisite(s): SPE 300 or SPE 500

AEL524 Ethics and Law
Hours 3
A study of ethics and law as it relates to the educational leader’s role as the first citizen of the school/district community.
Prerequisite(s): SPE 300 or SPE 500

AEL525 Management
Hours 3
A study of theories, principles and practices of managing an educational organization. Emphasis will be on the practical management of the local school.
Prerequisite(s): SPE 300 or SPE 500

AEL526 Data Informed Decision Making
Hours 3
Uses school based data as a vehicle to illustrate the applicability of decision making models in the resolution of school problems.
Prerequisite(s): SPE 300 or SPE 500

AEL527 Internship in Educ Leadership
Hours 1.5
Applies theory, knowledge and skills in meaningful and practical experiences in actual school settings. Students are required to complete two semesters of internship for a total of 3 hours credit.
Prerequisite(s): SPE 300 or SPE 500

AEL528 Edu Fin Theory/Pract
Hours 3
A study of litigation, legislation, and implementation of public-school finance programs in the 50 states. Concentrates on four aspects of equity: resource equity, input equity, output equity, and tax equity.
AEL612 Instruc Supv Mentor Trng
Hours 3
A comprehensive critical examination of advanced philosophy, theory, and research of instructional supervision, including an interdisciplinary focus on forces impinging upon instruction. Implications of these findings for individual and group development and the improvement of instruction and the instructional environment are emphasized.

AEL618 Adv Educational Law
Hours 3
Emphasizes original legal research by the student. After reviewing general principles of educational law, each student selects a topic for intense research. With the instructor's assistance, each student will prepare a publishable article on some area of educational law. Proper use of legal notations, forms, and research methods is stressed.

AEL619 Politics Of Education
Hours 3
Study of politics as it relates to educational decision making, with emphasis on political theory, history of politics in education, and the legislative process. Offered once during the academic year.

AEL630 School Partnerships
Hours 3
This advanced course examines basic principles, strategies, and components of school and community partnerships and the obstacles to forging effective and successful partnerships from a solid theoretical foundation in community sociology and its relationship to school reform. In addition, it analyzes how social and cultural differences impact the ways in which business, schools, families/parents, and communities interact, relate, and conflict.

AEL631 Strategic Leadership
Hours 3
Application of Leadership theories to district level leadership practice, with an emphasis on strategies and tactics for planning. Includes field experience.

AEL632 Leading Learning Through the Curriculum
Hours 3
Knowledge, skills and understandings about curriculum discourses and assumptions underlying historical, social and contemporary thought, practice and research applying to curriculum leadership.
Prerequisite(s): AEL 521

AEL633 Leading, Developing, and Mentoring for Adult Learners
Hours 3
Emphasis is on advanced study of leading learning communities, developing adult learners and strategies for teachers to ensure all students learn.
Prerequisite(s): AEL 522 and AEL 631

AEL634 Development and Supervision of Human Resources
Hours 3
Analysis of personnel functions, emphasizing philosophy, theory, skills and research on professional development for adult learners in professional learning communities.
Prerequisite(s): AEL 523

AEL635 Ethical, Legal, and Policy Issues in Schools
Hours 3
Advanced ethics and law for school administrators with emphasis on relationships between these and policy for school leaders.

AEL636 School Finance and Financial Management
Hours 3
An introduction to school and school systems business management and related technologies, fund accounting; GAAP; budgets; asset stewardship and internal control; purchasing and contracts; local school revenues, reporting and relationships to school support organizations and student activities.

AEL637 Leadership and Social Systems
Hours 3
A study of the interplay between leader behavior and schools from social systems theory and practical implications for improving instruction.

AEL638 Solving Problems of Practice
Hours 3
Directed opportunities to use educational leadership knowledge and skills to design field-based projects and evaluate solutions.

AEL645 Int Comm & Collaboration
Hours 3
Study of research, literature, theory and skills involved in interpersonal communications, conflict resolution and collaboration within school settings. Prepares leaders to work in collaborative teams.

AEL649 Advanced Research
Hours 1-6
Directed research activities related to educational leadership topics. Enrollment is subject to program regulations and permission of the student's program committee. Credit is based on the nature and degree of student involvement.

AEL650 Organizational Theory
Hours 3
An exploration of the relationship among concepts, generalizations, and theoretical models found in the behavioral and social sciences. The application of these to administrative practice in educational settings is addressed.

AEL664 Dynamics Of Change
Hours 3
Components of change will be identified and theories of social and personal dynamics will be adapted and applied to planned programs of change in education.

AEL667 Multicult Soc Ed Leadshp
Hours 3
An advanced inquiry into contemporary social and cultural dimensions of education and their relationships to leadership. Includes issues of diversity, gender, ethnicity, pluralism, and equality.

AEL669 Curriculum Study Schoolg
Hours 3
An inquiry into the curriculum of schooling. Critical analysis of the relationship of curricular decision making to social and political systems and other school context variables is emphasized. Application is made to contemporary issues and problems in school leadership and restructuring.
A critical examination, interpretation, and evaluation of significant current and classical writings in the field of instructional supervision with particular emphasis on research findings, the emergence of instructional trends and issues across the literature, and applications for effective leadership of instructional supervision.

Hours 3
AEL 675 is a course in organizational theory that continues the work begun in AEL 650. The course presents current theoretical perspectives and develops skills in reading research literature and framing dissertation problems.

AEL681 Ethics and Education
Hours 3
An exploration and examination of traditional and contemporary ethical issues confronting educational leaders, managers, and teachers at all levels of the educational process. Emphasis on an interdisciplinary approach to foundations in ethical theory and establishing a conceptual framework for the resolution of moral and ethical questions prevalent across the educational spectrum.

AEL682 Lead & Org/Theory & Appl
Hours 3
An examination of historical and contemporary theories, models, concepts, and practices for effective and efficient approaches to leadership within organizations and how these apply to educational settings.

AHE500 Perspect High Educ Admin
Hours 3
How higher education has been shaped by the major trends in American society, how it has contributed to the development of this country, and what may be expected of higher education in the future. Higher education is also viewed in institutional and conceptual forms from the perspective of students, faculty, and administrators.

AHE507 Student Development Theory I
Hours 3
Introduction to the theoretical basis for the delivery of services through organizational student development, and a study of the research basis for student development.

AHE510 The Community College
Hours 3
An overview of the development, format, issues, and purposes of the contemporary community and junior college.

AHE520 Student In Higher Educ.
Hours 3
A survey of the needs, characteristics, and cultures of the American college student within various types of higher education institutions.

AHE521 Student Affairs
Hours 3
An overview of the organization, personnel, and practices of student affairs and related higher education functions in U.S. colleges and universities. The course is designed to increase student understanding of how student services, student activities, and student development tasks are organized, administered, and assessed. Students will explore the main issues, roles, constituencies and expectations affecting individual professionals as well as the profession as a whole.

AHE530 Law & Higher Education
Hours 3
Investigates and explicates the structure and background of law and equity in higher education, with emphasis on how statutory law, administrative law, and case law respond to and affect faculty, students, administrators, and trustees. Constitutional law, contracts, torts, the law of private associations, civil rights statutes, executive orders, injunctions, specific performance, corporate and partnership law, law of agency, and laws on liability are studied as they apply to higher education.

AHE540 Org and Governance
Hours 3
Overview of the organization, administrative roles and positions, administrative process, and administrator relationships within various institutions of higher learning.

AHE548 Leadership in Higher Education
Hours 3
Overview of theory, practice and issues related to leadership in American Higher Education.

AHE550 Financing Higher Educ.
Hours 3
An overview of the budgeting processes, sources of revenue, types of expenditures, and issues and innovations in financing various types of contemporary institutions of higher education. Also a survey of the various business and planning operations vital to the operation of colleges and universities.

AHE560 Comparatv Higher Educ.
Hours 3
This course is designed to provide a cross-cultural perspective on issues related to higher education throughout the world. The course will focus on topics such as reform, students and student activism, internal and external governance of universities, unions, and the academic profession in key world regions.
AHE561 Case Studies in Higher Ed.  
Hours 3  
This course is designed to enhance an understanding of decision making in higher education. Based on case studies, students will analyze, propose policies, generate action plans and implementation procedures, and assess the potential consequences of their administrative decisions.

AHE590 Ind Study In Higher Ed  
Hours 3-6  
Directed independent study in the literature of higher education, designed for the student seeking a minor or pursuing master's work in the program in higher education (AHE).

AHE591 Seminar Higher Education  
Hours 3  
A topical seminar on a current issue or problem in higher or postsecondary education. On occasion, the seminar involves travel or on-site visitations to institutions or oversight bodies.

AHE592 Internship in Higher Education  
Hours 3  
The application of theory, knowledge, and skills in authentic educational settings. Students are required to complete one semester of internship for a total of three hours credit.

AHE593 Student Affairs Capstone Seminar  
Hours 3  
The Student Affairs Capstone Seminar will be the final course for students in the Higher Education Master's Program. The course focuses on leadership and organizational change in student affairs in postsecondary education.  
Prerequisite(s): Instructor permission

AHE599 Thesis Research  
Hours 1-6  
Directed thesis research.

AHE601 Professional Sem High Ed  
Hours 3  
This course is designed for students newly admitted to the doctoral program in higher education administration. As such, the seminar concentrates on issues and concerns that arise as part of the doctoral experience. Course activities and experiences may vary according to the professional experience and academic background of course participants.

AHE602 Problems In Higher Education  
Hours 3  
Seminar studying the current issues and trends related to higher education.

AHE603 College & University Teaching  
Hours 3  
An intensive graduate seminar that provides an overview of the issues, principles, and practices associated with effective college teaching. Topics include learning and diversity; teaching models and strategies; teacher and student behaviors and learning outcomes; and instructional improvement strategies.

AHE607 Student Development Theory II  
Hours 3  
This course provides a comprehensive study of student growth and development during the college years. The course is designed to address professionals in student affairs and higher education administration.  
Prerequisite(s): AHE 507 Student Development Theory I

AHE610 Academic Culture & Learn  
Hours 3  
An intensive examination of the student, faculty, and administrative cultures in higher education environments. The impact of various internal and external factors on institutional culture and behavior will also be studied, particularly as they relate to teaching, learning, research, and service.

AHE621 Power Politics Change  
Hours 3  
No description available

AHE625 Community College Leadership  
Hours 3  
This course provides an overview of issues pertaining to leadership in American community colleges.

AHE640 Organizational Change  
Hours 3  
Colleges and universities face tremendous challenges; the need for change, and for change agents, has never been greater. This course examines organizational change both theoretically and practically in higher education.

AHE642 Sem Inst Resrch & Assesm  
Hours 3  
An overview of the institutional research and analysis techniques utilized in contemporary higher education. The course is configured for those with an interest in conducting institutional research and/or working in offices of institutional research on the campus, system, and/or state level.

AHE644 Sem Acad Progm Dev Eval  
Hours 3  
Design and management of academic programs; study of institutional structures for academic affairs; practice in program review for instructional improvement; and overview of graduate programs (general and liberal education, as well as occupational and professional education).

AHE645 Higher Education and Student Affairs Assessment  
Hours 3  
This course will explore assessment in higher education and student affairs, including the history and significance of assessment, perspectives from associations, fundamental perspectives, ethics, practical considerations, and future directions. We will also study specific processes for creating assessment initiatives, including developing outcomes, instrumentation, data collection, sampling, data analysis, dissemination, and utilizing results.  
Prerequisite(s): AHE 645 has no prerequisites.
AHE670 Higher Education Policy
Hours 3
This course will introduce students to the essential elements of higher education policy and finance. Students will examine the main financing options of colleges and universities; college costs and pricing; financial aid policy, and emerging policy issues.

AHE680 Readings in HE
Hours 3
The purpose of this course is to provide students with skills that enable them to understand and synthesize current research in higher education.

AHE688 Mentored Teaching
Hours 3
This course provides students with a mentored experiential learning opportunity to develop competency and mastery in course construction and delivery in the higher education environment.

AHE689 Mentored Research
Hours 3
This course provides students with mentored experiential learning opportunity to develop competency and mastery in research and analytical skills. To be taken at or near end of students research requirements.

AHE690 Direct Doctoral Study
Hours 1-6
Directed individual study and analysis of a problem confronting higher education. Note: Frequently, special one-time-only seminars focusing on a particular aspect of higher education are offered by program faculty under this course number.

AHE699 Dissertation Research
Hours 1-15
Directed dissertation research in the field of higher education. Enrollment is subject to program regulations and permission of the student’s dissertation committee chairperson. Also offered in summer school.

Instructional Leadership

AIL600 Interg Tech Educ & Train
Hours 3
An examination of advanced applications of current and emerging instructional technological applications in a variety of settings and in the context of various fields of study and job environments. Technologies and applications addressed in current course include computers, the Internet, presentation media, and multimedia. Cognitive, product, and skill competencies are included. Cognitive competencies are integrated into product and skills evaluations. Products are required to reflect some competencies, while skills competencies are either observed directly or inferred from the products.

AIL601 Prin Instruct Technology
Hours 3
Advanced theory and applications of educational technology. Including the effects of technology on thinking and learning, and the effects of technology in problem solving and other higher-level thinking skills, the course examines current research on computerized learning (CAI, simulation, and tutorials) and other relevant topics such as virtual reality, games and gaming theory, hypertext (design and comprehension), presentation software, groupware for cooperative learning, and telecommunications (distant and/or distributed learning).

AIL602 Electron Instruct Design
Hours 3
Designed to develop basic knowledge and skills for electronic instructional design - analysis, design, production, evaluation, and revision - for specific electronic projects.

AIL603 Telecomm & Networks
Hours 3
Designed to explore design, layout, and installation of local and wide area networks. Addresses topologies, ethernet standards, physical layer, network operating software, data-link layer, file server, network cards, hubs, peripherals, routers, and other network operations.

AIL604 Distance Technologies
Hours 3
Prepares students with knowledge and skills in methods of distance education, which incorporates telecommunications and computer technology to instruct students at remote locations or to serve as an adjunct to classroom instruction. The technology used includes telephony, cable television, satellite communications, videocassettes, videoconferencing, computer-mediated instruction, and/or online computer communication via the Internet.

AIL605 Interact Multimedia Proc
Hours 3
Prepares students with knowledge and skills in modeling, simulation, testing, or analysis or training in real-world contexts using interactive multimedia processes.

AIL606 Software Technology
Hours 3
Intended for students who have had some prior programming experience; otherwise, students will need to develop competencies prior to taking this course. Issues include matching the capabilities of the medium to the intellectual structure of the subject, who directs the interaction between human and computer; the size of the intellectual field; and pedagogical concerns in choosing the operations of a software environment. Students are expected to design and complete a project at the end of the course.

AIL607 Readings in Instructional Technology
Hours 3
This course is designed to aid students in understanding and synthesizing research and developing theoretical approaches to the study of instructional technology.

AIL630 Technology Management
Hours 3
This course introduces learners to theories and models for managing technology as an instrument of change and performance improvement in schools and organizations.

AIL631 Administrative Technology
Hours 3
This course introduces learners to the primary administrative technologies available for administrators and the critical technology issues educational and organizational leaders face.

AIL689 Practicum in Instructional Technology
Hours 3-6
Students pursue research in the Instructional Technology program. They are required to develop, implement, and analyze research; and report findings in APA format.
AIL690 Sem Instructional Technology
Hours 3
No description available.

AIL691 Doctoral Seminar: Instructional Technology
Hours 1
This doctoral seminar presents opportunities to study or work independently on topics or projects of collective concern in the IT doctoral program.

AIL699 Dissertation Research
Hours 1-12
Twelve semester hours (EdD) or 24 semester hours (PhD) required. Directed dissertation research in the area of instructional leadership. Students must maintain continuous enrollment for a minimum of 3 semester hours per semester each fall and spring semester until the dissertation is completed. Enrollment is subject to program regulations and permission of the student's dissertation committee.

Educational Foundations

BEF503 History Of Amer Educn
Hours 3
An interpretive history of the educational and social movements and conflicts leading to understanding contemporary issues of educational aims, curriculum, teaching methodology, administrative policy, and the professionalization of teaching. Offered in alternate semesters and in summer school.

BEF504 Philosophy Of Educ
Hours 3
An examination into the meaning and purpose of education in light of major philosophical problems of knowledge, value, and reality. Offered in alternate semesters and in summer school.

BEF507 Sociology Of Education
Hours 3
A sociological emphasis on cultural factors (such as ethnic background; socioeconomic status; family, peers, and community; and sex-role stereotyping) that influence education in a pluralistic society.

BEF510 Phil Hist Socl Founds Ed
Hours 3
Drawing on interdisciplinary study in philosophy, history, and sociology, this course examines the purposes and development of schools in relation to the social, cultural, political, and intellectual makeup of society.

BEF512 Church State & School
Hours 3
A critical interpretation of the First Amendment and the separation of church and state in American education.

BEF534 Multicultural Education
Hours 3
Studies in selected aspects of the social, cultural, and political foundations of society, with a critical evaluation of their relevance for understanding diversity in educational institutions and in creating pedagogies that meet the diverse needs of students.

BEF538 Values and Ethics in Interprofessional Education
Hours 3
Online course. An examination of how psychological, sociological, and philosophical research on the nature of ethical judgment, social norms, and moral knowledge informs interprofessional practice. Online course.

BEF553 History of US Higher Education
Hours 3
No description available.

BEF575 Found Educn Through Film
Hours 3
One of the most powerful media for awakening and reflecting on ideas is film. This course uses various films with educational themes to examine social and philosophical issues in education.

BEF577 Readings in Critical Sociology of Education
Hours 3
Readings in Critical Sociology of Education will provide graduate students with post introduction type of readings into significant theories and theorists of the sociology of education from a critical perspective. This perspective will give students a conceptual tool to interpret important theoretical frameworks necessary for research into educational issues. Prerequisite - Admission into Graduate School.

BEF585 Language Politics & Education
Hours 3
This course provides students a broad overview of language policy and planning. Drawing on international case studies, students will identify different foci of language planning, including status, corpus, and acquisition planning, as well as the different linguistic and political views that inform policy.

BEF607 Readings In Soc Of Ed
Hours 3
Individualized readings in the sociology of education, with a focus on the educator as reflective practitioner and facilitator of learning.

BEF639 Educ Theory And Policy
Hours 3
A critique of educational theory (learning, curricular, instructional, administrative) and its implications for policy making.

BEF640 Studies History Of Education
Hours 3
A critical examination of significant events, movements, or individuals in the history of education.

BEF641 Studies Social Foundatn Eductn
Hours 3
A special topics course providing an in-depth analysis of important individuals, theories, and contemporary issues in the social foundations of education.

BEF642 Studies Philosophy Education
Hours 3
This course provides in-depth analyses of important individuals, ideas, or concepts that have helped to develop, expand, or shed light on our philosophical understandings of the myriad and contested purposes, policies, and practices of schooling.
BEF644 Phil Science Rel Ed Res
Hours 3
An inquiry into the basic assumptions and principles underlying scientific research in education. Offered spring semester.

BEF650 Critical Race Theory In Educ
Hours 3
This seminar explores the history, theory, and educational implications of critical race theory in the areas of pedagogy, curriculum, and educational policy.

BEF653 Studies in Higher Ed History
Hours 3
A critical examination of significant events, movements, or individuals in the history of higher education.

BEF654 Phil & Amer Higher Ed
Hours 3
An analysis of the language, concepts, and value judgments embedded in higher-education policy issues.

BEF667 Multicult Soc Ed Leadership
Hours 3
An advanced inquiry into contemporary social and cultural dimensions of education and their relationships to leadership. Includes issues of diversity, gender, ethnicity, pluralism, and equality.

BEF681 Ethics And Education
Hours 3
An exploration and examination of traditional and contemporary ethical issues confronting educational leaders, managers, and teachers at all levels of the educational process. Emphasis on an interdisciplinary approach to foundations in ethical theory and establishing a conceptual framework for the resolution of moral and ethical questions prevalent across the educational spectrum.

BEF698 Non-Dissertation Research
Hours 1
Individual research in history, philosophy, or sociology of education.

Computers and Applied Technology

CAT531 Computer Based Instruction
Hours 3
This is an introductory course in the fundamentals of computer applications for educational use. The course explores current and emerging tools and trends for online learning strategies, communication, productivity, presentation, research, and classroom administration.

CAT532 Curric Emerg Instruct Technol
Hours 3
The course focuses on the educational applications of emerging chronologies, including Internet, fax, bulletin boards, voice mail, and networks. Students will use electronic mail and transfer files through Internet. Production skills are required in desktop publishing and use of graphics, including draw and paint programs and animation. A significant part of the course concerns production in hypermedia software. Also, students will engage in the uses of telecommunications other than computer, such as one-way interactive satellite class, two-way video phone course sequence transmission, and two-way IITS instructional event.

CAT589 Pract Res Educ Comptr Tech
Hours 3
Students pursue individual research in educational computer technology; they are required to implement, analyze, and report findings in APA format.

Instructional Technology

INTE532 Instructional Technology Design
Hours 3
This course provides an introduction to the elements of instructional design and their application to the design of technology-mediated instruction, with a primary focus on blended and online learning.

INTE533 Online Teaching and Learning
Hours 3
This course provides students with knowledge and skills in the methods of online teaching and learning, including the creation of effective online learning environments.

INTE534 Issues and Trends in Instructional Technology
Hours 3
Study of current issues and trends affecting the use of technology in training, instruction, and implementation. Includes an examination of emerging technologies: legal, social, cultural, cyber ethics and security, and ethical issues affecting technology: technology funding, technology planning and professional development.

INTE535 Analysis, Implementation, and Evaluation of Assistive Technology
Hours 3
Study of hardware and software applications designed to meet the needs of those with developmentally and physical abilities. Topics include: adaptive/assistive technologies and services to improve learning environments; accessibility standards for traditional classrooms and online learning environments; selecting and using adaptive and/or assistive hardware and software applications; evaluation and selection of adaptive and assistive technology.

INTE536 Assessment and Evaluation of Instructional Technology
Hours 3
Procedures for evaluating educational programs, training systems, emerging learning technologies, and new technology applications. Topics include the evaluations of instructional or performance improvement programs; models for formative and summative evaluations.

INTE537 Game-Based Learning
Hours 3
Study of current issues and trends related to the use of games (both analog and digital) for pedagogical purposes. Includes an examination of theoretical and empirical support for game-based learning; educational game design theory; game development; game-based learning pedagogical models; integration of games in the formal classroom.

INTE538 mLearning
Hours 3
This course provides introduction to mobile learning (mLearning) in higher education, K-12 and business environments. During the course, students will design and evaluate a mobile app for use in higher education, K-12 or business learning environments.
INTE539 Special Topics in Instructional Technology  
Hours 3  
The course will include an in-depth study of a particular topic, contemporary issue or concern. Investigation of unique problems and new developments in instructional technology will occur. Specific topics will be announced in the Schedule of Classes each time the course is offered or students will select individual topics to study in-depth.

INTE540 Planning and Managing Technology Projects  
Hours 3  
This course introduces learners to theories, models, tools and processes for planning and managing technology projects as mechanisms of change and performance improvement in schools and organizations.

INTE541 IT Leadership and Administrative Technologies  
Hours 3  
This course introduces learners to administrative technologies and critical technology issues facing educational and organizational leaders. Technologies covered in the course include data management systems and course management systems. Issues include policies for safe and legal use of technology resources; diversity and social justice; ethical use of technology; and professional development.

INTE589 Instructional Technology Research and Product Development  
Hours 3  
This culminating course is intended to give students an experience of the "what" and "how" in instructional technology research (action research) and/or product development through collaboration with businesses, schools and/or community entities.  
Prerequisite(s): CAT 531, INTE 532, INTE 533

Faculty  
Department Head and Professor  
Claire Howell Major

Professors  
Natalie Adams
Nirmala Erevelles
Philo A. Hutcheson
Bob L. Johnson
Stephen G. Katsinas
Frankie Santos Laanan
Douglas McKnight
John Petrovic
Stephen Tomlinson
Vivian Wright

Associate professors  
Becky Atkinson
Angela Benson
Nathaniel James Bray
David Hardy
Karri Holley
Roxanne Mitchell
Margaret L. Rice

Assistant professors  
Andre R. Denham
Cindy Ann Kilgo
Bryan Mann
Steve Mobley, Jr.
Jingping Sun
Krystal Williams

Clinical professor  
Philip Westbrook

Clinical associate professors  
Arleene Breaux
Brenda Mendiola

Clinical assistant professor  
Yvette Bynum

College Teaching, Graduate Certificate  
The Graduate Certificate in College Teaching is a 12-credit (4-course) sequence designed to help graduate students in a variety of professional settings and disciplines who seek to enhance their understanding of teaching and learning issues for adult learners, particularly at institutions of higher education. Students who participate in the certificate program will have exposure to theory, research, and practice related to the professoriate and to teaching and learning in higher education. The intent of the Graduate Certificate in College Teaching is to assist professionals in responding to the increasingly complex and diversifying social and cultural contexts for adult learners. Students who complete the Certificate will have it listed on their transcripts. The Graduate Certificate in College Teaching involves coursework in The United States Professoriate and in College and University Teaching. Moreover, students take an elective related to a specific area of interest. Finally, students participate in a mentored teaching experience. The coursework includes:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHE 602</td>
<td>Problems In Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>AHE 603</td>
<td>College &amp; University Teaching</td>
<td>3</td>
</tr>
<tr>
<td>AHE 688</td>
<td>Mentored Teaching</td>
<td>3</td>
</tr>
<tr>
<td>One elective related to college teaching</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>12</td>
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</tbody>
</table>

Educational Leadership, Ed.D.  
As a professional degree the EdD in educational leadership is designed to meet the needs of individuals seeking to improve their knowledge
and skills to become highly competent educational leader-practitioners at the state, district, school, or classroom level. The EdD is designed to promote a standard of excellence intended to meet the growing demands faced by educational leaders in a context defined by instructional leadership, public accountability for teaching-learning results, increased globalization, diversity, and the emergence of new digital technologies as a part of life. The EdD programs are guided by a model of professional inquiry and reflection that emphasizes the development and improvement of systematic decision skills to address the problems, challenges, and opportunities of practice. Students examine the core content domains of strategic and instructional leadership, organizational theory, data-driven decision-making, law, supervision and evaluation, design, implementation, assessment and evaluation of curricular programs, professional development, school economics and budget planning, and other content specialization areas. Knowledge from these domains is designed to facilitate the process of framing and addressing in critical ways the problems of practice. Although the primary goal of individuals seeking either of these EdD degrees is exemplary practice, the quality and rigor of the EdD experiences at The University of Alabama are such that pursuing a career as a university professor may be accomplished with these degrees.

Admission and Application Process Description

Doctoral students are admitted twice annually. Students are encouraged to submit their applications for admission before the deadlines listed below and they should allow several weeks for the Graduate School to process their applications:

1. Fall Deadline: October 31
2. Spring Deadline: April 1

For additional information, please contact Vanessa Williams, Senior Office Associate of ELPTS: willi077@ua.edu (willi077@bamaed.ua.edu)

Application and Entrance Requirements

Potential applicants should be aware that admission to the UA doctoral programs is a competitive process and that submitting an application does not guarantee admission. Minimum entrance requirements include the following:

1. Masters Degree – An earned Masters degree from an accredited institution
2. Minimum GPA – A minimal graduate grade point average of 3.0 on a 4.0 scale
3. GRE/MAT Exam – While the Graduate Record Exam (GRE) is preferred, potential applicants are required to report scores from the GRE or Miller’s Analogy Test (MAT). Test scores at or above the 50th percentile on the Verbal and Quantitative Reasoning subscales of the GRE are needed. A score at or above the 50th percentile on the MAT is needed. Please note that scores submitted for consideration for admission must be less than 5 years old from the applicant’s admission deadline.
4. Other Requirements – Other application requirements include.
   a. Reference Letters – The application must include letters of professional and academic reference letters, including one from a current supervisor, as described in and as part of the Graduate School Application Process;
   b. Purpose, Rationale and Career Statement – A purpose statement which addresses the following: (1) the student’s rationale for applying for the Ed.D.; (2) a statement regarding career/professional goals; and (3) a statement of how the student’s rationale and career goals are consistent with the purpose of the Ed.D. degree as articulated by the Department and Program.
   c. Writing Sample – An academic or professional writing sample written by the applicant within the last year that provides evidence of the student’s writing ability.
   d. Professional Experience – It should be noted that for the Ed.D. degree, experience in teaching and/or leadership are key factors considered in the admission process.

Application Process and Procedures

The process consists of the following:

1. Step 1: Graduate School Application – Applicants must first submit an application to the University of Alabama’s Graduate School. For a complete listing of graduate application forms please visit the Graduate School at: http://graduate.ua.edu/application/
2. Step 2: Department of ELPTS Application – After completing the application to the Graduate School, students must then complete the ELPTS Department’s Application for Admission to either of the Ed.D. programs. Please note, the application is not considered complete until students have submitted: (1) the Graduate School Application; and (2) The Departmental Application. The following items should be sent to Vanessa Williams willi077@bamaed.ua.edu at the following mailing address: Program in Educational Leadership, Department of Educational Leadership, Policy, and Technology Studies, University of Alabama, Box 870302, Tuscaloosa, AL 35487-0302.
   a. Completed Departmental Application – This is to be downloaded, completed and returned to Vanessa Williams. The application is located under quick links.
   b. Three Letters of Recommendation – As described in the Graduate School Application above, the three required letters of recommendation, with one letter from a current direct supervisor, are to be sent directly to Vanessa Williams willi077@bamaed.ua.edu.
   c. Vita – Applicants are required to include a vitae or resume.
   d. Writing Sample – Applicants are required to include a recent sample (within the last year) of their academic/professional writing.

Program Prerequisites

Applicants must provide evidence of the following:

1. Masters degree – Prior to acceptance applicants must provide evidence in the admission process and before the final admission decision that they have earned a Masters degree in education or a closely related and relevant field from an accredited institution.
2. Course Prerequisites – Prior to admission, applicants must provide evidence that they have completed courses in the following areas with the following parameters:
   a. Special Education Course – Applicants must have taken a special education course with a grade of ‘B’ or better.
   b. Graduate Level Statistics Research Course – In addition, if applicants have not taken BER 540 Statistical Methods In Educ or an acceptable/pre-approved masters-level equivalent within the last four years with a grade of ‘B’ or better, then if accepted into the doctoral program, students must complete this course before beginning the 12 hour research requirement.

Program and Course Requirements for Degree

A minimum of 72 semester credit hours beyond the Masters degree is required for completion of the Ed.D. program. These 72 hours must
consist of the following courses: Educational Leadership Courses (AEL) = 36 hours; Educational Foundations Courses (BEF) = 12 hours; Educational Research (BER) = 12 hours; Dissertation Hours = 12 hours. It should be noted that depending on coursework prior to admission to the Ed.D. program, that prerequisites for more advanced study in educational leadership may be required.

Educational Leadership (AEL) Course Requirements: 36 hours: Ed.D. students must successfully complete a total of 36 semester hours to qualify for the degree. These requirements must be distributed as follows:

Core Educational Leadership (AEL) Requirements: 15 hours – All doctoral students in Educational Leadership are required to take the core AEL course requirements at the University of Alabama. The AEL core consists of following 600-level courses:

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AEL 650 Organizational Theory</td>
<td>18</td>
</tr>
<tr>
<td>AEL 671 Survey Instructnl Superv</td>
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<tr>
<td>AEL 682 Lead &amp; Org/Theory &amp; Appl</td>
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<tr>
<td>AEL 619 Politics Of Education</td>
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</tr>
</tbody>
</table>

Total Hours: 39

1 Beyond the AEL 15 hour core requirements, Ed.D. students are required to take 21 hours of AEL electives. All electives must be at the 600 or doctoral level. In conjunction with his/her/their advisor, the student is to select courses listed in the Graduate Catalog (p. 410).

Transfer Parameters on AEL courses – Please note that as of April 2017, the following policies guide the transference of courses into the Ed.D. program:

- Applicants with an Ed.S. in leadership from The University of Alabama – For students with an Ed.S. from The University of Alabama and at the discretion of a student’s program of study committee, up to 15 hours (6 AEL courses) of the AEL Ed.S. may be counted toward the Ed.D. degree if the following parameters are met: (1) the course was completed no more than 5 years from the date of the student’s admittance; (2) a grade ‘B’ or better (note, not a ‘B-’) was earned in the course, and (3) the course is not an independent study nor a “practicum” type course.
- Applicants with an Ed.S. in leadership not from University of Alabama – (Effective April 1, 2017) For students who have completed an Ed.S. at institutions other than the University of Alabama and at the discretion of a student’s Program of Study committee, up to 12 hours of their Ed.S. program may be counted to the Ed.D. degree if the following parameters are met: (1) the institution from which the student took these courses is accredited; (2) the course(s) addresses a major curricular component of the Ed.D. program at the University of Alabama as captured in the Program’s current array of doctoral AEL courses; (3) the course(s) was completed no more than 5 years from the date of the student’s admittance; (4) a grade ‘B’ or better (note, not a ‘B-’) was earned in the course(s), and (5) the course is not an independent study nor a practicum course.
- Applicants with an Ed.S. in a specific curricular area of education, or in Teacher Leadership rather than in educational leadership. Under review – TBD.

Foundations Course Requirements: 12 hours

Students are required to take a minimum of 12 semester hours of graduate coursework from content areas outside of the Educational Leadership Program. For these 12 hours students are expected to select courses from areas that will inform their research and professional interests and that, when considered as a whole, cohere thematically. This rationale for course selection in fulfilling this requirement contrasts with electing to take a course simply because it was convenient to one’s schedule. Research courses cannot be used to meet this requirement. All choices must be approved by the student’s Advisor and Program of Study Committee. The following should guide students’ choices:

1. Selection Parameters – Foundations course hours must be met with courses outside of the student’s program area. For example, while these courses can be within the Department they must be outside of the Educational Leadership Program or within the larger College, e.g., Educational Psychology, Curriculum and Instruction, etc. or outside of the College of Education, e.g., Political Science, Business, Sociology, Anthropology, Law, etc. All courses must be approved by the student’s Advisor and by his/her/their Program of Study Committee. Note: Courses from a student’s master’s degree can be used to fulfill this requirement. However, it should be noted that while master’s level courses fulfill the 12-hour Foundations Requirement, they may not count toward the 72 hours beyond the masters needed to fulfill the requirements for the Ed.D. Hence, students using any courses from the master’s degree to fulfill the 12-hour foundation requirement will need to take additional 600-level courses to meet the 72-hour requirement.

2. Recommended Courses – Given the importance of ethics and cultural diversity to leadership, the following courses are recommended, but not required.

3. AEL 681 Ethics and Education / BEF 681 Ethics And Education


Note: Students who sign up for the 681 or 667 as AEL courses to fulfill this Foundations Requirement may not count these as part of the 24 hour AEL elective requirement. Instead they should enroll in these courses as BEF courses.

Research Requirements: 12 hours: Students are required to take a minimum 12 hours of course work in quantitative and qualitative research methods.

1. Prerequisite Statistics Requirement: BER 540 Statistical Methods
   - In Educ – if students have not taken BER 540 Statistical Methods in Educ or an acceptable/pre-approved masters-level equivalent within the last four years with a grade of ‘B’ or better, then students must complete this course before beginning the 12-hour research requirement. This prerequisite cannot be used to fulfill the 12-hour Research Requirement.

2. Research Course Requirements – Students are encouraged to choose research courses that focus on the specific methods they will use in their dissertation study. All students are required to take at least one 600-level methods course in qualitative methods. Likewise, all students are required to take at least one 600-level methods course in quantitative methods. Recommend Courses include:
   - BER 630 Case Study Research Methods
   - BER 631 Inqry As Interp: Qual I
   - BER 632 Reflect Resist: Qual II BER 633 Ethics & Aesthc:Qual III
   - BER 640 Quantitative II
• BER 641 Multivariate Statistics
• BER 646 Structural Equation Modl
• BER 660 Eval I: Theory & Practice
• BER 661 Evaluation 2

3. Transfer Parameters for Research Courses (Effective April 1, 2012) – Given the importance of research methods to doctoral study and the propensity of human knowledge to recede if not used on a consistent basis, faculty and students are strongly encouraged to minimize the number of research courses transferred into the doctoral program. Graduate level statistics courses taught by research faculty at other universities may be accepted for transfer only if the following conditions are met: (a) the institution from which the student took these courses is accredited; (b) the course taken was a doctoral level course; (c) the course was completed no more than 4 years from the date of the student’s admittance to the UA doctoral program, and (d) the student received a grade of ‘B’ or better (note, not a ‘B-’) in the course.

Dissertation Research Requirements: 12 hours: Ed.D. students are required to complete a minimum of 12 hours of AEL 699 Dissertation Research. Policies regarding registration for this course are as follows:

1. Passing of Comprehensive Exam required – Students cannot register for AEL 699 Dissertation Research until after they have passed the Doctoral Comprehensive Exam.

2. Continuous enrollment required – Continuous enrollment in AEL 699 Dissertation Research is required until the dissertation is completed. It should be noted that unless they are drawing on the resources of the University and making use of their dissertation advisor, students do not need to register for dissertation hours in the Summer. However, students working with and being advised by their chair during the Summer must register for dissertation hours in the Summer.

3. Minimum number of hours allowed for registration: 3 semester hours – While the number of hours per semester will vary depending on the advice to the student given by his/her committee chair in conjunction with the work load of the student, students must register for a minimum of 3 hours per semester. It should further be noted that if students complete their dissertation work prior to having registered for 12 hours of AEL 699 Dissertation Research, that the Registrar’s Office will require the student to enroll in and pay for the full 12 hour requirement prior to graduation.

III. Doctoral Comprehensive Qualifying Exam

A comprehensive exam designed to assess the breadth and depth of a student’s knowledge and skills is administered twice each academic year. It should be noted that the Doctoral Comprehensive Qualifying Exam is not offered in the Summer. Policies governing this exam are as follows:

1. Purpose of Comp Exam: The comprehensive exam is designed to assess the breadth and depth of a student’s knowledge and skills based on the entire range of his/her doctoral course work and consistent with the purpose of the Ed.D. degree.

2. Exam Date and Time: Unless specified otherwise, this multi-hour, single day exam is given on both the Tuscaloosa campus and at the Graduate Center in Gadsden, and is typically offered on Saturdays during the 9th-12th week of these semesters (9:00-12:00, 1:00-4:00). Students are required to take and successfully pass this exam before they can formally begin the dissertation process and register for dissertation research hours (AEL 699 Dissertation Research). If students fail their Comprehensive Exams, they may retake them during the regular exam time during the following semester.

3. Logistics of Exam: The Student’s Advisor selects questions that reflect the individual needs of the doctoral student. The Advisor disseminates the questions to the examination proctor, coordinates the evaluation, and reports the results. Students may choose to either type or handwriting their examination. No lap top computers, books, notes or other outside materials will be allowed in the Examination Room during the exam. A room with sufficient computers will be provided. It is appropriate for students to seek information from professors on the general domains to be examined in a given course; students will not, however, be given information regarding specific questions that may appear on their exams.

4. Requirements for Taking Exam: Before sitting for the Comprehensive exam, the following parameters must be met by the student:
   a. Approved Program of Study – Students cannot sit for the Comprehensive exam unless their Program of Study has been both completed and officially approved.
   b. Completed all AEL course requirements – Students cannot sit for the Comprehensive Exam unless they have completed all AEL course requirements (AEL core + electives) or are in the last semester of doing so.
   c. Removal of all Incompletes from Academic Record – Students cannot sit for the Comprehensive Exam unless they have removed all Incompletes (‘I’) from their academic record.
   d. Completion of Comprehensive Exam Application Form – Students cannot sit for the Comprehensive Exam unless they have completed and submitted the Request To Take Comprehensive Exam Form via e-mail or fax (205.348.2161) to Vanessa Williams at willi077@bamaed.ua.edu

IV. Doctoral Residency Requirement

A. Policies Guiding Residency Requirement Fulfillment: The Ph.D. residency requirement can be satisfied ONLY by enrolling in 9 semester hours of coursework in two consecutive semesters. Dissertation research cannot be used to fulfill the nine hours. Courses delivered via IITS, GOALS, or QUEST formats may not be used to satisfy residency requirements.

B. Options for Ed.D. Students Completing Residency Requirements: The following options have been approved for Ed.D. students by the College of Education for completing residency requirements.

1. Normal Doctoral Residency – The student spends an academic year in continuous residence on the campus of The University of Alabama as a full-time student in the Graduate School (or, if specifically approved by the faculty concerned, one full summer consisting of two terms, preceded by or followed by one regular semester). Two contiguous semesters registered on-campus for a minimum of nine hours each term. This requirement may be satisfied only with courses taught in Tuscaloosa, and may not include dissertation research.

2. Alternate Doctoral Residency – As an alternative option, Ed.D. students beginning in the summer may take a total of 24 hours of coursework in the first four semesters of their program study:
   a. First Summer: 9 hours
   b. Fall Semester: 3 hours
   c. Spring Semester: 3 hours
   d. Second Summer: 9 hours

3. UA-Gadsden Doctoral Students – For those students enrolled in a doctoral program at Gadsden, 24 hours of continuous enrollment within 24 months. Courses may be taken either at the Gadsden Center or in Tuscaloosa.
4. UA-UNA Florence Doctoral Students – For those students pursuing the Doctor of Education (EDD) in Florence, participation in the cohort experience simultaneously fulfills the residency requirement pending the approval and recommendations of the student’s Advisor and Program of Study Committee.

V. Program of Study Form – Completion

During their initial year of study and no later than the beginning of the second year of study, doctoral students are required to submit an approved Program of Study. Completed under the guidance of the student’s assigned advisor, the Program of Study must be officially approved by this advisor and the student’s program committee. The Program of Study functions to: (1) specify in advance program course requirements; (2) plan, chart and monitor a student’s progress in the program; and (3) define the parameters regarding the course credits taken at other colleges/universities that may be transferred in to meet doctoral program requirements at the University of Alabama. Note, students are advised against making premature judgments about courses to be transferred in from other institutions and programs. In addition to the guidelines specified in the Program of Study (above), such decisions are based on the professional judgments of tenure-track faculty in the Educational Leadership and Instructional Leadership Programs at the University of Alabama-Tuscaloosa campus. Other UA personnel (either at the UA-Gadsden or UNA campuses) are not authorized to advise nor approve a student’s Program of Study. Program of Study Forms for the Ed.D. degree can be found at the following link:

EdD Program of Study – Educational Leadership

VI. Time Limits on Receiving the Ed.D. Degree

A minimum of two academic years of graduate study beyond the Masters degree is required for completion of Ed.D. degree. Students accepted into the Ed.D. program in Educational Leadership or in Instructional Leadership at the University of Alabama have seven years from the semester in which they were admitted to complete the Ed.D. degree. This translates into 21 Fall, Spring and Summer semesters. Students who exceed this limit must request an extension from the Graduate School at the University of Alabama and approval from the student’s advisor, the department chair, and from the Graduate School. The Graduate School Catalogue at the University of Alabama says: Only under well-documented, extraordinary circumstances beyond the student’s control, a student may petition for a one-semester extension to the seven-year time limit that, if recommended by the advisor, the department head and approved by the college dean, and finally by the graduate dean or his/her designee. If a student fails to complete all degree requirements within seven years of his/her admission to the doctoral program or within a Graduate School approved one-semester extension, the student will be officially suspended from the doctoral program and must reapply for admission.’

Educational Leadership, Ed.S.

The EdS degree in educational leadership requires a minimum of 30 hours and provides coursework for those seeking Class AA Instructional Leader certification or Class AA Teacher Leader certification.

Admission and degree requirements for the Graduate School and for the College of Education are detailed in earlier sections of this catalog. Admission and degree requirements are subject to change and may be under revision at the time of publication. Please check with the Office of Student Services and Certification or the Department of Educational Leadership, Policy, and Technology Studies for the most current information.

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. A current program checklist may be obtained from the program office. Students should consult their advisors each semester before registering.

Admission Requirements

Admission requirements for the Graduate School (Admission Criteria) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

Class AA Instructional Leader (P-12) certification

Admission Requirements

To be considered, applicants must:

1. present an acceptable GRE or MAT score (at least 300 on the GRE or the 50th percentile or above on the MAT) for regular admission,
2. hold a valid Alabama Class A Professional Educator certificate in Instructional Leadership or a valid Class A Professional Leadership certificate, and
3. meet one of the following criteria:
   • currently serving as a superintendent, assistant or associate superintendent, principal, assistant principal, supervisor (any subject and/or grade level), administrator of career and technical education, coordinator or evaluator;
   • three years of experience in an instructional leadership position; OR
   • demonstrate each of the abilities in the Class A Instructional Leadership standards

Please note: Classes taken for Class A certification and credits over six years old cannot be counted toward this degree. The certification programs of the department have been designed to fulfill current requirements of the Alabama State Board of Education.

In order to maintain compliance with the Alabama Board of Education, admission and program requirements are subject to change. Admission forms and requirements, specific program parameters, departmental policies and contact information can be found at the departmental website. Students should consult with their advisors before registering each semester.

Degree Requirements

This course listing applies to those who begin this program June 1, 2017, and thereafter. A comprehensive exam is required, and candidates must present a GPA of at least 3.50 on all courses in the program, with no grade below a C.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Foundations of Professional Studies:</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>(Choose ONE from these SDE approved diversity courses.) 3</td>
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<tr>
<td></td>
<td>BEF 607 Readings In Soc Of Ed</td>
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<tr>
<td></td>
<td>BEF 650 Critical Race Theory In Educ</td>
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<tr>
<td></td>
<td>BEF 667 Multicult Soc Ed Leadership</td>
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<td></td>
<td>BEF 681 Ethics And Education</td>
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Educational Research:

<table>
<thead>
<tr>
<th>Hours</th>
<th>AEL 638 Solving Problems of Practice 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Advisor-approved BER research course at the 600 level 3</td>
</tr>
</tbody>
</table>

Instructional Support Area:
AEL 631  Strategic Leadership 3
AEL 632  Leading Learning Through the Curriculum 3
AEL 633  Leading, Developing, and Mentoring for Adult Learners 3
AEL 634  Development and Supervision of Human Resources 3
AEL 635  Ethical, Legal, and Policy Issues in Schools 3
AEL 636  School Finance and Financial Management 3
AEL 637  Leadership and Social Systems 3

Additional Requirements:
SPE 500 is required if a special education survey course was not part of the undergraduate program or another graduate program. 0-3

Total Hours 30-33

Certification
To be awarded Alabama Class AA Instructional Leader certification, students must:

• earn a passing score on a comprehensive exam covering the content of the program,
• maintain a GPA of at least 3.5 (effective July 1, 2017) on all courses with no grade below a C, and
• complete the State Department of Education certification application forms

Class AA Teacher Leader (P-12) certification
Admission Requirements
To be considered, applicants must:

1. hold a valid master’s level professional educator certificate in any teaching field or area of instructional support,
2. have a minimum of three full years of full-time teaching experience in a P-12 setting, and
3. submit a portfolio containing three recommendations, evidence of the ability to positively affect student achievement, and evidence of collaborative leadership potential.

Please note: Classes taken for Class A certification and credits over six years old cannot be counted toward this degree. The certification programs of the department have been designed to fulfill current requirements of the Alabama State Board of Education.

In order to maintain compliance with the Alabama Board of Education, admission and program requirements are subject to change. Admission forms and requirements, specific program parameters, departmental policies and contact information can be found at the departmental website. Students should consult with their advisors before registering each semester.

Degree Requirements
This course listing applies to those who begin this program June 1, 2017, and thereafter. A comprehensive exam is required, and candidates must present a GPA of at least 3.50 on all courses in the program, with no grade below a C.

Educational Leadership, MA
Master of Arts in Educational Leadership leading to Class A Instructional Leader Certification (P-12)
(30 semester hours). The primary purpose of the Master of Arts degree in educational leadership is to provide students with the initial certification in Alabama for Instructional Leadership in P-12 schools. The coursework provides students with a thorough knowledge and understanding of the central concepts, tools of inquiry, and structures of the field of instructional leadership for schools. Candidates learn to work with students, families, and communities in ways that reflect the dispositions expected of educational leaders. The program content is consistent with state and national standards.

The Graduate Catalog is published annually. State-approved program checklists may be updated more frequently and are thus likely to provide the most up-to-date information about requirements. A current program checklist may be obtained from the program office. Students should consult their advisors each semester before registering.
MA in Educational Leadership with Class A Instructional Leader certification

Admission Requirements

An entrance exam score (at least 300 on the GRE or the 50th percentile or above on the MAT) is needed for regular admission. In addition to meeting admission requirements of the Graduate School and the College of Education, applicants must meet the following additional requirements for admission to the Educational Leadership/MA program leading to Class A Instructional Leader certification:

- a valid Alabama Class B professional educator certificate in a teaching field or a valid Alabama Class A professional educator certificate in a teaching field or instructional support area,
- a minimum of three full years of full-time, acceptable professional educational experience in a P-12 setting, which must include at least one full year of full-time P-12 classroom teaching experience,
- the submission of a portfolio before the interview,
- an application to the educational leadership department, and
- passing an interview conducted by the program committee.

The application portfolio must include:

1. three letters of recommendation, one of which must be from the applicant’s principal or direct supervisor,
2. a completed copy (all forms) of the most recent performance evaluation including the professional development component, if available,
3. evidence of ability to improve student achievement,
4. evidence of leadership and management potential, including evidence of most recent accomplishments in educational leadership,
5. a summary of the candidate’s reasons for pursuing the certification in instructional leadership, and
6. a summary of what the candidate expects from the certification program.

Individuals must be unconditionally admitted to the Class A Instructional Leader program before enrolling in any leadership courses in the program.

Degree Requirements

This course listing applies to those who begin this program June 1, 2017. A minimum of 30 hrs of appropriate graduate work, successful completion of a comprehensive exam, and passing scores on the appropriate Praxis subject assessment are required. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BEF 503</td>
<td>History Of Amer Educn</td>
<td>3</td>
</tr>
<tr>
<td>BEF 507</td>
<td>Sociology Of Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 534</td>
<td>Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 575</td>
<td>Found Educn Through Film</td>
<td>3</td>
</tr>
<tr>
<td>BEF 607</td>
<td>Readings In Soc Of Ed</td>
<td>3</td>
</tr>
<tr>
<td>BEF/AEL 650</td>
<td>Critical Race Theory In Educ</td>
<td>3</td>
</tr>
<tr>
<td>BEF/AEL 667</td>
<td>Multicult Soc Ed Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Research:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BER 540</td>
<td>Statistical Methods In Educ</td>
<td>3</td>
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</table>

Instructional Support Area:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEL 520</td>
<td>Leadership for Communities *</td>
<td>3</td>
</tr>
<tr>
<td>AEL 521</td>
<td>Leadership for Improvement</td>
<td>3</td>
</tr>
<tr>
<td>AEL 522</td>
<td>Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>AEL 523</td>
<td>Human Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>AEL 524</td>
<td>Ethics and Law</td>
<td>3</td>
</tr>
<tr>
<td>AEL 525</td>
<td>Management</td>
<td>3</td>
</tr>
<tr>
<td>AEL 526</td>
<td>Data Informed Decision Making</td>
<td>3</td>
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</table>

Internship:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEL 527</td>
<td>Internship in Educ Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements:

- SPE 500 is required if a special education survey course was not part of the undergraduate program or another graduate program. 0-3

Total Hours: 30-33

* SDE-approved diversity course

Reduced-Hour Option leading to Class A Instructional Leader (certification only)

Beginning Summer 2015, individuals holding a valid, Alabama Class A professional educator certificate may apply for admission to the reduced-hour option to pursue certification only.

Admission Requirements

Minimum requirements include:

- a valid Alabama Class A professional educator certificate in a teaching field or instructional support area,
- a minimum of three full years of full-time, acceptable professional educational experience in a P-12 setting, which must include at least one full year of full-time P-12 classroom teaching experience,
- a graduate GPA of 3.0 or above on a 4.0 scale,
- submission of a portfolio before participation in the assessment process, which will include an interview, and
- submission of a writing sample in a sit-down format and a review by the program admission committee.

Reduced-hour Option leading to Class A Instructional Leader (certification only)

Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C. Successful completion of a comprehensive exam and passing scores on the appropriate Praxis subject assessment are required.

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>AEL 523</td>
<td>Human Resource Development</td>
<td>3</td>
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<tr>
<td>AEL 524</td>
<td>Ethics and Law</td>
<td>3</td>
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<tr>
<td>AEL 525</td>
<td>Management</td>
<td>3</td>
</tr>
<tr>
<td>AEL 527</td>
<td>Internship in Educ Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

* SDE-approved diversity course
format meets all the expectations of a rigorous higher education
maintain professional positions. The Executive EdD program's alternative
process allows students to complete the degree in nine semesters and
co-workers. Intensive coursework and a carefully-structured dissertation
cohort program that allows students to build an immediate network of
rich studies with an applied research approach. The Executive EdD is a
necessary to advance in leadership positions by combining theoretically-
The program helps students develop the knowledge, skills, and abilities
necessary to advance in leadership positions by combining theoretically-
rich studies with an applied research approach. The Executive EdD is a
cohort program that allows students to build an immediate network of
colleagues. Intensive coursework and a carefully-structured dissertation
process allow students to complete the degree in nine semesters and
maintain professional positions. The Executive EdD program's alternative
format meets all the expectations of a rigorous higher education
program, including the credit hour and degree requirements stipulated by
the College of Education and the Graduate School.

Admission to the Graduate School (Admission Criteria) and the College
of Education (General Admission (p. 387)) do not ensure admission
to the doctoral programs. Admission forms and requirements, specific
program parameters, departmental policies, and contact information for
each doctoral degree can be found at the ELPTS website.

See the Admission Criteria section of this catalog for more information.

**Certification**

To be awarded Alabama Class A Instructional Leader certification, students must:

a. maintain a GPA of at least 3.25 (effective July 1, 2017) on all courses
   with no grade below a C;

b. receive a passing score on a comprehensive assessment
documenting mastery of the curriculum,

c. successfully complete the internship and residency,

d. receive a passing score on the required Praxis subject assessment,

e. complete a survey of special education course (SPE 300 Survey Spe
   Accomd Stratg or SPE 500 Intro Exc Childr/Youth) or its equivalent.

The certification programs of the department have been designed to
fulfill current requirements of the Alabama State Board of Education.
The state requirements change from time to time and, accordingly, the
department's requirements and programs are subject to change.

Field experience objectives, including progression from observation
through participation to leadership behaviors are embedded in each
course and assessed by the faculty member of record for each course.

The program of study leading to Class A Instructional Leader certification
is based on a cohort approach to instruction with cohorts being established annually. For admission forms and requirements, specific
program parameters, departmental policies and contact information,
please review the ELPTS website.

**Higher Education Administration, Ed.D.**

The Higher Education Administration Program offers the EdD program in
Tuscaloosa. The EdD program is also offered in an executive format.

The EdD degree provides academic preparation and professional
development for those individuals who have or will assume upper-level
administrative and executive roles in two- and four-year colleges and
universities, state and federal postsecondary education agencies and
other education-related organizations. The curriculum is designed around
the key competencies necessary to assume a leadership role, with
courses in program assessment and evaluation, policy, organizational
change and student affairs administration. The EdD requires 66 semester
hours beyond the master's degree. These 66 semester hours include at
least 54 hours of coursework and 12 hours of dissertation research. The
plan of study also includes 12 semester hours in theoretical foundations
and a minimum of 12 semester hours in research methods.

The Executive EdD program is designed to meet the unique needs of
experienced professionals seeking a doctorate in higher education.
The program helps students develop the knowledge, skills, and abilities
necessary to advance in leadership positions by combining theoretically-
rich studies with an applied research approach. The Executive EdD is a
cohort program that allows students to build an immediate network of
colleagues. Intensive coursework and a carefully-structured dissertation
process allow students to complete the degree in nine semesters and
maintain professional positions. The Executive EdD program's alternative
format meets all the expectations of a rigorous higher education

**Higher Education Administration, MA**

The Master of Arts degree in higher education is offered in Tuscaloosa
and online. The Master of Arts is a 36-hour degree program designed for
students seeking to enter or advance in a range of professional careers in
postsecondary education. The program follows standards and guidelines
from the Council for the Advancement of Standards in Higher Education,
and it includes courses in foundational studies, professional studies,
supervised practice, research, and electives. The program partners
with staff in Student Life and Academic Affairs to provide professional
development opportunities in and outside of the classroom experience.
An internship is required for most students in the program.

Candidates for the master's degree must earn a minimum of 33 semester
hours of credit and complete a 3-hour culminating "Capstone" experience.
This plan requires a minimum of 18 semester hours in the major subject.
With the approval of the major program, the remainder of the coursework
may be completed in either the major or a related field.

Candidates may be required to participate successfully in seminar or
problem courses that will give them an acquaintance with the methods
of research and an appreciation of the place and function of original
investigation in the field.

**Higher Education Administration, Ph.D.**

The Higher Education Administration Program offers a PhD program in
Tuscaloosa only.

The PhD degree prepares students to assume scholarly roles in higher
education. The PhD program emphasizes working with faculty in a one-
on-one setting with students participating in a mentored teaching and
research sequence, providing first-hand experiences of faculty life.
Students investigate and contribute to a body of knowledge that informs
higher education policy and practice at the institutional, statewide,
national, and international levels.

The PhD requires 78 semester hours beyond the master's degree. These
78 semester hours include at least 54 hours of coursework and 24 hours
of dissertation research. The program of study also includes 12 semester
hours in theoretical foundations and a minimum of 12 semester hours in
research methods.

PhD students also are required to complete mentored teaching and
mentored research courses. In mentored teaching, students are required
to assist a higher education faculty member with course instruction. In
mentored research, students work individually with a higher education
faculty member to complete a research project.

Admission to the Graduate School (Admission Criteria) and the College
of Education (General Admission (p. 387)) do not ensure admission
to the doctoral programs. Admission forms and requirements, specific
program parameters, departmental policies and contact information for each doctoral degree can be found at the ELPTS website.

**Instructional Leadership, Ed.D.**

**Instructional Leadership, EdD—Nurse Educator**

The UA College of Education and the Capstone College of Nursing have combined to offer a Doctor of Education in instructional leadership with a concentration in nurse educator. This low-residency program is designed to prepare future faculty with the teaching and research skills necessary for positions in community colleges, four-year colleges, and universities.

Working within annual cohorts and employing distance-based instruction, coursework requirements and the dissertation study are typically completed in 4 and one-half years.

The curriculum supports the competencies for nurse educators specified by the National League for Nursing (NLN) and the Southern Regional Education Board Council on Collegiate Education in Nursing (SCCEN).

**Admission Requirements:**

In this program, nurses that have an MSN degree enter the program to earn a Doctorate in Education (EdD) for Nurse Educators. To be admitted into the program, students will meet the criteria for admission to The University of Alabama Graduate School and the Colleges of Nursing and Education.

Prerequisites include:

- an undergraduate GPA of 3.0 on a 4.0 scale, a 3.0 average for the last 60 semester hours in a degree program, or a 3.0 or higher in a completed graduate degree program
- an unencumbered RN license in the state in which the student will practice
- BSN degree from an accredited institution
- M.S.N. degree from an accredited institution

The fall admission deadline is April 1st. An admissions committee comprising nursing and education faculty will select students based upon the following requirements. Each step must be completed to be considered for admission.

Step 1) Complete the Graduate School application

Step 2) Submit department materials

- Resume
- Admission Form
- Three letters of recommendation
- Sample of your academic writing (e.g., a scholarly paper presented in a previous graduate course that demonstrates your knowledge of an area, powers of organization, command of language, and communication skills.)

Conditional Admission

A degree applicant whose credentials do not meet the above requirements for regular admission may be considered for conditional admission. Applicants for conditional admission will not be considered if their GPA is lower than 3.0. The conditional status is satisfied, and the status of regular admission automatically assumed, if the student makes a grade of "B" or better in each class during the first twelve hours of their graduate work. Failure to meet this requirement will result in the student being dropped from the program.

Admission to the Graduate School and the College of Education do not ensure admission to the doctoral programs. Admission forms and requirements, specific program parameters, departmental policies, and contact information for each doctoral degree can be found at the ELPTS website.

Additional requirements for the Graduate School (Degree Requirements) and the College of Education (Doctoral Degrees (p. 380)) are detailed in earlier sections of this catalog.

**Program Requirements:**

The Doctorate of Education requires a minimum of 72 credit hours beyond the master's degree (60 hours of coursework and 12 hours of dissertation study). Students must also meet the University residency requirement.

The 60 hours of required coursework is typically completed in three years of full-time study through a blended format of online courses and campus meetings (scheduled four times a semester on Friday evenings and Saturdays). The dissertation study must be completed no later than seven years after first enrollment.

**Residency**

Students will meet the University Residency Requirement by successfully completing 18 hours of required coursework within a 12-month period, including three of five core courses (currently BEF 644, AEL 667, BEF 641, AEL 695 or AHE 603) in consecutive semesters.

**Comprehensive Exam**

A comprehensive exam measures students' command of the content presented in the coursework portion of the degree.

**Dissertation**

During dissertation research, continuous registration is required for a minimum of 3 hours per term (fall and spring) until graduation. Registration is also necessary for summer graduation.

**Nurse Educator Dissertation: Policy & Procedure**

**Purpose.** A dissertation—demonstrating the ability to conduct independent research and skill in organization, writing and presentation—must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. The subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

**Policy.** The dissertation progresses through the following benchmarks:

(i) **Prospectus.** The dissertation committee meets to review a brief outline (typically around 20 pages) of the proposed research project. Upon approval, the Application to Candidacy form is signed and submitted to the department office.

(ii) **Proposal.** The dissertation committee meets to review the first three chapters of the dissertation manuscript. Where appropriate, this should include the justification and design of any proposed field research. Upon approval, the Appointment of Committee form is signed and submitted to the department office. The student can then seek the IRB approval necessary to conduct their study.

(iii) **Defense.** The dissertation committee meets to review the final manuscript, including analysis of the study's findings and discussion of their significance in the light of current research and policy. Upon approval, the Committee Acceptance form is signed and submitted to
the department office. The complete and edited dissertation is then uploaded at the ETD website, as explained below.

**Graduate School Guidelines**

- A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are approved by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.
- All members of a dissertation committee must be members of the Graduate Faculty. The committee chair must be a full member of the graduate faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty. One member must be from outside the student’s major department. Please see INSTRUCTIONS FOR APPOINTMENT TO TEMPORARY GRADUATE FACULTY. Unless there are extraordinary circumstances meriting approval by the graduate dean beforehand, all members of the dissertation committee must attend the final oral defense of the dissertation.
- The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage.
- Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.
- The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, however, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research, but only in the final semester.

**Application for Degree**

The Application for Degree form must be submitted in the first week of the semester that you plan to graduate.

### Instructional Leadership, Ph.D.

#### Instructional Leadership – Instructional Technology Concentration (PhD)

The Instructional Leadership PhD with a concentration in Instructional Technology is dedicated to the improvement of professional practice and service to learning communities. The PhD prepares individuals to conduct original research and to use current and emerging technologies and instructional strategies to create effective learning environments. Further, the degree prepares individuals to assume instructional technology roles of preparing future researchers and teachers in schools and colleges, and for positions in educational technology, instructional design, and training in business and industry.

### Instructional Leadership – Social and Cultural Studies Concentration (PhD)

The Instructional Leadership PhD with a concentration in Social and Cultural Studies is dedicated to the improvement of professional practice within learning communities. We develop future scholars, researchers, and instructional leaders for schools, colleges, and other learning institutions. Our work is guided by the principles of reflective practice, professional growth, democratic action, and individual responsibility. The overarching goal is the preparation of theoretically informed leaders with the critical understanding of social and cultural issues necessary to enact organizational, curricular, and pedagogic reforms within their respective institutional settings.

Admission to the Graduate School and the College of Education does not ensure admission to the doctoral programs. Admission forms and requirements, specific program parameters, departmental policies, and contact information for each doctoral degree can be found at the ELPTS website.

### Doctoral Degrees

The PhD in instructional leadership prepares educational leaders, scholar practitioners, policy makers, professors, and researchers who can use—and contribute to—knowledge of learning processes, pedagogy, and the social foundations of schooling. Courses focus on curriculum, professional development, supervision, learning, pedagogy, and questions of diversity and social justice. Throughout, the overarching aim is to develop the skills of inquiry and reflective decision making so that graduates are able to construct ethical and politically informed judgments that advance education while respecting diversity, honoring difference, and promoting social justice. The PhD offers optional concentrations in instructional technology (preparing future researchers, teachers, and corporate trainers in the field of instructional design and e-learning) and the social and cultural foundations of education (preparing students for academic positions in higher education).

#### Instructional Leadership, PhD (Instructional Technology)

**Admission Requirements**

To be considered for regular admission, students must score above the 50th percentile on either the GRE or MAT. For admission, an applicant must apply online through the Graduate School. Applicants should select the Instructional Leadership PhD and then the specialty area of Instructional Technology. Other requirements include a departmental information sheet, a curriculum vita or resume, a statement of purpose, three recommendations, and a writing sample.

**Program Requirements**

When admitted to the program, applicants are assigned a temporary advisor—they may continue to work with this person or select another advisor when they get to know the faculty. Advisors work with students to complete a Program of Study. This is your degree plan; it specifies the courses you must complete in order to graduate. Students must also meet the University residency requirement.

The Instructional Leadership PhD with an Instructional Technology concentration is an 84-hour degree. It is comprised of 60 hours of coursework and 24 hours of dissertation credit.

**Graduate School Requirements**

1. Within the first 30 hours of study, copies of students’ Program of Study Form must be submitted to the department and to the graduate
out the courses you must complete in order to graduate. 

2. All requirements must be completed within seven years. Credit earned in the six years preceding enrollment in the doctoral program may be applied. 

3. The minimum period in which the doctoral degree can be earned is three full academic years of graduate study.

Dissertation (AIL 699 Dissertation Research, 24 hours). Continuous enrollment of a minimum of 3 hours during Fall and Spring semesters is required until the dissertation is complete. Dissertation hours are not required during summer semesters.

Application for Degree 
The Application for Degree form must be submitted in the first week of the semester in which a student plans to graduate.

Instructional Leadership, PhD (Social and Cultural Studies) 
Students pursuing this concentration may follow either the traditional or the alternate doctoral residency. The alternate doctoral residency requires students to enroll in 18 credit hours of approved graduate level coursework across three consecutive semesters. The 18 hours of coursework must include six of twelve of the doctoral core on the Tuscaloosa campus. Students may include up to six hours of advisor approved online, distance education, hybrid, or Gadsden coursework. Students may not take more than three hours of online or hybrid instruction in a single semester during the residency period.

Admission Requirements
To be considered for regular admission, students must have maintained an undergraduate grade point average of 3.0 on a 4.0 scale or a 3.0 average for the last 60 semester hours in a degree program. No entrance exam is required for application to the Instructional Leadership PhD with concentration in Social and Cultural Studies. However, students who have already taken the GRE and scored at or above the 50th percentile are encouraged to submit their results to supplement their application. For admission, an applicant must apply through the Graduate School. You will be asked to submit names for recommendations, a departmental information sheet, your curriculum vita or resume, a statement of purpose, and a writing sample.

Program Requirements
When admitted to the program you will be assigned a temporary advisor—you may continue to work with this person or select another advisor when you get to know the faculty. One of the first projects, usually completed in the first or second semester, is to form a Program Advisory Committee and complete a Program of Study Form. This is your degree plan; it lays out the courses you must complete in order to graduate.

1. Within your first 30 hours of study, copies of your Program of Study Form must be submitted to the department and to the graduate school. Any changes to the program of study must be made by completing a course substitution form.

2. Your Program of Study Form must indicate how you will meet the University Residency Requirement.

3. Up to 21 hours of required course work may be transferred if credit meets conditions stated in the Doctoral Degrees section of the Graduate Catalog. Use the Transfer Graduate Credit Form.

4. All requirements must be completed within seven years. Credit earned in the six years preceding enrollment in the doctoral program may be applied. See the checklist pertaining to each degree for any exceptions. (Some programs may be eight years if certain conditions prevail.)

The doctoral program requires a minimum of 72 credit hours beyond the master’s degree or 90 hours beyond the bachelor’s degree. A typical 72-credit hour PhD is comprised of 48 hours of coursework, a comprehensive examination, 24 hours of dissertation credit, and the University residency requirement.

Students must complete 33 hours of coursework relevant to the major, including, at a minimum, 18 hours of BEF coursework. These 18 hours must include the following program core courses: BEF 644, AEL 667/BEF 667, AEL 669, AEL 681/BEF 681, and 3 hours of BEF 698. BEF 698 is a one-hour credit course that can be taken multiple times. Additionally, students are strongly encouraged to complete at least one course in each of the constituent program disciplines: sociology, history, and philosophy. Preapproved courses are as follows:

- Sociology: BEF 507, BEF 641, BEF 650
- History: BEF 503, BEF 653
- Philosophy: BEF 504, BEF 642, BEF 654

Remaining hours of coursework may come from the following elective courses: Any disciplinary course not taken from above and BEF 512, BEF 534, BEF 575, BEF 585, BEF 607, BEF 639; AEL 619, AEL 664, AEL 695.

In consultation with their advisors, students are encouraged to seek relevant courses outside the program and College to fulfill both disciplinary and elective needs according to their academic interests and professional goals.

A majority of courses in the program of study must be at the 600 level or higher.

Research. 15 hours of coursework in quantitative and/or qualitative research methods must be included in the program of study.

Proposal. The dissertation proposal normally constitutes the first three chapters of the dissertation study. Typically, this comes after the student has met to discuss their prospectus. At this point, a student who should submit the Application for Admission to Candidacy form to the Graduate School—and a photocopy to the department.

Dissertation (AEL 699 Dissertation Research, 24 hours). Continuous enrollment is required until the dissertation is complete. The number of hours will vary depending on workload of the student and professor on the document.

Doctoral Residency. The minimum period in which the doctoral degree can be earned is three full academic years of graduate study. The student must spend an academic year in continuous residence as a full-time student in the Graduate School of The University of Alabama (or, if specifically approved by the faculty concerned, one full summer consisting of two terms, preceded by or followed by one regular semester). Full time enrollment consists of 9 credit hours per semester. This requirement can be satisfied only by enrolling in coursework; dissertation or thesis research cannot be used. Students following the traditional residency requirement are advised that distance education courses may not count toward that requirement.

Instructional Technology Certificate
The Graduate Certificate in Instructional Technology provides students with the knowledge, skills, and dispositions to effectively 1) integrate technology within their teaching as a means of improving learning outcomes; 2) design and deliver distance and online courses; and 3)
lead campus and organizational instructional technology initiatives. The program takes a research-to-practice approach by grounding instructional technology practice in research-based evidence.

**Required Core Coursework (6 hours):**
- AIL 602 Electrnc Instruct Design 3
- AIL 604 Distance Technologies 3

**Required Elective Coursework (3 hours):**
- AIL 690 Sem Instructional Technology 3
- AIL 601 Prin Instruct Technology 3

**Elective Coursework (6 hours):**
- AIL 600 Integr Tech Educ & Train
- AIL 601 Prin Instruct Technology
- AIL 603 Telecommctn & Networks
- AIL 605 Interact Multimedia Proc
- AIL 606 Software Technology
- AIL 607 Readings in Instruct. Tech.
- AIL 630 Technology Management
- AIL 631 Administrative Technology
- AIL 690 Sem Instructional Technology

Total Hours 15

- With approval of the Program Coordinator for Instructional Technology, AIL courses taken as part of a student’s existing program of study that meet the requirements of the certificate program will be accepted as credit towards the certificate.

### Instructional Technology, MA

The Master of Arts in instructional technology is an online degree program for individuals who wish to increase their understanding of technology’s role in teaching, learning, design, and training. This online degree is designed to prepare individuals in the state, nation, and the world to use current and emerging technologies and instructional strategies to create effective learning environments. The degree prepares individuals for positions in instructional technology, educational technology, instructional design, and training in business and industry.

**Admission Requirements**

Applicants to the Master of Arts in instructional technology must apply to the Graduate School for admission. To apply, connect to the Graduate School site at http://graduate.ua.edu/application/. Follow the online instructions, complete the required forms and provide appropriate transcripts.

**Application Process**

Applications are accepted throughout the year. For the application to be processed for each semester, the application should be submitted no later than:
- July 10th for Fall admission
- November 10th for Spring admission
- April 10th for Summer admission

**Program Requirements**

- Candidates for the master’s degree must earn a minimum of 30 semester hours of credit.
- Candidates must complete a digital portfolio as a comprehensive examination
- There are 21 required hours (7 courses) and 9 elective hours (3 courses) of CAT/INTE hours; one elective course may be taken outside the INTE program from other programs/colleges at The University of Alabama, with advisor approval.

#### Instructional Technology, MA

**Total Hours** 30

**Required courses:**
- CAT 531 Computer Based Instruction 3
- INTE 532 Instructional Tech Design (Instructional Technology Design) 3
- INTE 533 Online Teaching and Learning (eLearning (Online Learning)) 3
- INTE 534 Issues & Trends Instruct Tech (Issues and Trends in Instructional Design) 3
- INTE 535 INTE Assistive Technology (Adaptive and Assistive Technologies) 3
- INTE 536 Assessment and Evaluation (Assessment and Evaluation in Instructional Technology) 3
- INTE 589 Instruct Tech Resea & Prod Dev (Instructional Technology Research and Product Development) 3

**Elective courses (Choose 3 from the options below):**
- INTE 537 Game-Based Learning (Game-Based Learning) 3
- INTE 538 mLearning (mLearning) 3
- INTE 539 Special Topics in IT 3
- INTE 540 Plan & Manage Tech Projects (Technology Project Management and Budgeting) 3
- INTE 541 IT Leadership (IT Leadership and Administrative Technology) 3

One advisor-approved course outside the INTE program

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### Department of Educational Studies in Psychology, Research Methodology, and Counseling (BCE, BEP, BER, BSP)

- Majors
  - Counselor Education: Clinical Mental Health Counselor Option (MA) (p. 438)
  - Counselor Education: Rehabilitation Counseling Option (MA) (p. 438)
  - Counselor Education: School Counseling Option (MA) (p. 438)
  - Counselor Education (EdS) (p. 437)
  - Counselor Education (PhD) (p. 437)
  - Educational Psychology (MA) (p. 439)
  - Educational Psychology (EdS) (p. 439)
  - Educational Psychology (EdD) (p. 439)
  - Educational Psychology (PhD) (p. 440)
  - Educational Psychology-School Psychometry, MA (p. 441)
  - Educational Psychology-School Psychology, EdS (p. 444)
  - Educational Research (PhD) (p. 442)
  - School Psychology (PhD) (p. 445)
  - Research Methodology (EdS) (p. 443)
  - Qualitative Research (Graduate Certificate) (p. 442)
  - Quantitative Research (Graduate Certificate) (p. 443)
Counselor Education

BCE511 Principles Of Guidance
Hours 3
Explores the rationale for guidance by examining human development and sociological, psychological, and philosophical bases for guidance. Provides awareness of services by surveying components of guidance programs. Offered fall semester.

BCE512 Counseling Theory Proc
Hours 3
Introduction to counseling, counseling theories, and the counseling relationship; and an overview of the counseling process. Offered fall and spring semesters.

BCE513 Career Development
Hours 3
An introduction for counselors and teachers to career development concepts, labor force information, and other resources needed to help persons with career planning and decision making. Offered spring semester.

BCE514 Counseling Skills
Hours 3
An experiential course involving applied elements of theoretical models and customary helping skills to orient and prepare students for their initial supervised work with counseling clients. Offered fall and spring semesters.

BCE515 Practicum Counseling I
Hours 3
Laboratory training in attending, listening, and influencing skills. Supervised experience in counseling. Offered fall and spring semesters.

BCE516 Practicum Counseling II
Hours 3
Supervised practice in counseling. Offered fall and spring semesters.
Prerequisite(s): BCE 515

BCE517 Professional Issues, Ethics, and Advocacy in Counseling
Hours 3
This course is designed to expose students to the fundamental principals of being a professional counselor. This course will help students to be familiar with assumptions, theories, strategies, applications, ethical, and legal considerations related to the development of counseling.

BCE518 Intro to Clin. Ment. Hlth Cnsl
Hours 3
Seminar and fieldwork designed to acquaint the student with the functions and roles of the counselor in various community and agency settings. Offered fall semester.

BCE521 Group Proced Coun Educ
Hours 3
Background in group methods, including group guidance, group counseling, and group dynamics. One-half of class time is spent in a laboratory experience during which each student is provided an opportunity to function in a group. Offered fall and spring semesters and in summer school.

BCE522 Indiv & Group Appraisal
Hours 3
An overview of measurement methods, practice in administration and interpretation of standardized tests, and evaluation of tests and testing programs for counseling and guidance. Offered spring semester and in summer school.

BCE523 Prog Development & Mgt
Hours 3
An examination of the organization and implementation of the guidance functions of schools and the guidance responsibilities of counselors, teachers and administrators. Offered spring semester.
Prerequisite(s): BCE 511

BCE525 Internship in School and Clinical Mental Health Counseling
Hours 3-12
Supervised field experience in an appropriate job setting. Offered fall, spring and summer semesters/terms.
Prerequisite(s): BCE 515

Hours 3
Advanced study and discussion of a variety of agency-specific issues and topics. Offered spring semester.
Prerequisite(s): BCE 518

BCE533 Special Topics
Hours 1-3
This course is designed to offer students a range of counseling-focused 500-level special topic classes.

BCE540 Orientation to Rehabilitation Counseling
Hours 3
Philosophical, social, psychological, and legislative bases of rehabilitation; the nature and scope of the rehabilitation process and the functions of the rehabilitation counselor; and study of the individual. Offered fall semester.

BCE541 Prin Pract Rehabilitatin Cnsl
Hours 3-6
Supervised experiences in selected rehabilitation and agency settings to provide an opportunity to integrate theory and practice early and to do selected independent field studies. Offered fall semester.

BCE542 Medical and Psychosocial Aspects Disabilities
Hours 3
General knowledge of chronic illness and disability is important for rehabilitation counselors, allied health professionals, and other human services workers who work in settings involved with serving persons with disabilities. This course will explore the personal, psychosocial, and vocational impact of chronic illness and disability. The course provides an overview of various body systems, the etiology and pathology of diseases, injuries, and disabilities that can affect the body systems, the prognosis, psychosocial and vocational implications of these conditions. Also examined will be the various models of conceptualizing disability and assistive technology.
BCE543 Psychosoc Cult Aspects Disabl
Hours 3
Psychological and sociological attitudes, adjustment problems, sexuality, rehabilitation techniques, placement, family and social systems implications, programs, and facilities; emphasis on severely disabled individuals. Offered spring semester.

BCE545 Case Management, Vocational Rehabilitation, & Placement
Hours 3
The purpose of this course is to provide students with the knowledge and necessary skills to complete case management and vocational rehabilitation placement services. Course content includes competencies of case management; intake interviews; medical and psychological evaluation and life care planning.

BCE546 Pract Rehab Counseling
Hours 3-6
Supervised practice in rehabilitation counseling. Offered fall, spring, and summer semesters/terms.
Prerequisite(s): BCE 514

BCE547 Internship in Rehabilitation Counseling
Hours 3-12
Supervised field experience in a rehabilitation setting. Offered fall, spring, and summer semesters/terms.
Prerequisite(s): BCE 546

BCE548 Medical Aspects Disabil II
Hours 3
A study of medical, psychosocial, and rehabilitation considerations surrounding cognitive disabilities arising from brain trauma, mental illness, and addictions. Offered spring semester.

BCE611 Multicult. Approach Counseling
Hours 3
This course is designed to introduce students to multicultural issues unique to counseling and other helping professions. Offered even-numbered fall semesters.

BCE613 Substance Abuse Counseling
Hours 3
The primary goals for this course are to deepen students' understanding of substance use disorders, facilitate the development of addiction counseling competencies associated with positive treatment outcomes and increase students' level of confidence in identification of substance abuse issues.

BCE615 Field Exper Counselor Ed
Hours 3
Supervised field experiences in counseling to supplement accredited, advanced-level internships. Offered annually.

BCE616 Advanced Practicum In Counseling
Hours 3-6
Supervised practice in counseling for advanced majors. Offered alternate spring semester.

BCE618 Adv Theory Counseling
Hours 3
Historical and current approaches to individual counseling, and the theories of personality structure and individual behavior from which these approaches are derived. Offered alternate spring semesters.

BCE619 Supervision in Counselor Education
Hours 3-6
Supervision of practicum students within a structured pedagogical course. Offered in the fall and spring semesters.

BCE620 Human Sexuality Counseling
Hours 3
A course that identifies sexual issues and dysfunctions and examines counseling strategies, treatment planning and interventions. Offered even-numbered fall semesters.

BCE625 Advanced Internship
Hours 6-18
Supervised field experiences in counseling and counselor education for advanced students. Offered fall, spring, and summer semesters/terms.
Prerequisite(s): BCE 615 or BCE 616 or BCE 617

BCE626 Readings
Hours 3
Independent study under faculty direction. Offered fall, spring, and summer semesters/terms.

BCE631 Consul Adm & Ldrs in Counselng
Hours 3
Study of consultation with teachers, administrators, parents, and various community agencies, emphasizing behavioral, ecological, mental health, and organized models and appropriate interventions to be planned with consultees. Offered alternate spring semesters.

BCE633 Advanced Seminar
Hours 3
Seminars focusing on contemporary counseling issues and topics. Varied offerings.

BCE635 Teaching and Scholarship in Counselor Education
Hours 3
This course is designed for advanced counseling students who study teaching and scholarship in Counselor Education.

BCE636 Leadership and Advocacy in Counselor Education
Hours 3
The course is designed for advanced counseling students who study leadership and advocacy in Counselor Education.

BCE650 Couns Stratg Fam Relatns
Hours 3
Examination of theoretical and applied elements of systemic intervention with troubled families. Offered spring semester.

BCE651 Counseling Strategy Couple Relat
Hours 3
Examination of theoretical and applied elements of intervention with distressed couples. Offered fall semester.
BCE652 Couns Stratg Adult-Child  
Hours 3  
Examination of theoretical and applied elements of intervention with discordant relationships between adults and children. Offered summer terms only.

BCE653 Intro Play Therapy  
Hours 3  
Lecture/laboratory experience focusing on an overview of play therapy, including history, theories, beginning skills, and practicum experience. Variable offerings.

BCE654 Advanced Play Therapy  
Hours 3  
Individual readings, conferences, group discussions, lecture and reports focusing on techniques/methods, applications to special settings or populations, ethics, and professional responsibilities with an extended practicum experience.

BCE698 Non-Dissertn Research  
Hours 3-6  
Directed research not related to dissertation research. Variable offerings.

BCE699 Dissertation Research  
Hours 1-15  
Student research for writing dissertation.

Educational Psychology  

BEP500 Adv Educational Psych  
Hours 3  
Principles of educational psychology for teaching and for educational services in schools and colleges.

BEP501 Proseminar in Educational Psychology  
Hours 1  
This course presents an introduction to doctoral studies in Educational Psychology at The University of Alabama.

BEP505 Motivation and Self-Regulation  
Hours 3  
Investigates the development of self-regulatory processes and the match between those processes and educational practice. Transitions from home to school, elementary to secondary, and high school to college/work are considered in depth.

BEP541 Authentic Sch Learn Tchg  
Hours 3  
Cognitive approaches to learning/teaching with focus on what constitutes authentic learning. Topics/themes include nature of preschool learning, sources contributing to learning, constructivism, and holistic perspectives.

BEP555 Adolescent Psychology  
Hours 3  
Theories and research on adolescent psychology. Examination of physical, cognitive and personality/social development within the context of the family, schools and peer relations.
BEP665 Motivation/Emotion Education  
**Hours 3**
Exploration into processes of human motivation and emotion with a focus on educational settings.

BEP670 Research Methods and Trends in Educational Neuroscience  
**Hours 3**
Focuses on research methods and trends in educational neuroscience. Seminar format with some data analysis activities. Topics are grouped under three themes: research trends, methods (e.g., MRI, EEG), and neuroscience theory (e.g., connectivity).
Prerequisite(s): BEP 570

BEP672 Teaching Ed Psych Coll  
**Hours 3-12**
Seminar for graduate student instructors. Students must be GTAs in educational/school psychology. Designed to help GTAs use reflective decision making and knowledge of educational psychology to teach undergraduates.

BEP673 Research/Ethics Seminar  
**Hours 3**
Critical study of current issues in educational psychology.

BEP690 Readings In Educ Psych  
**Hours 1-6**
An opportunity for the student to study intensively a topic in educational psychology, covering a sizable body of literature (the topic chosen should nevertheless be narrower than that subsumed under the name of a course).

BEP698 Non-Dissertatn Research  
**Hours 3-12**
Participation in a research project relating to educational psychology.

BEP699 Dissertation Research  
**Hours 1-15**
Research by student for dissertation.

**Educational Research**

BER500 Intro Educatn Research  
**Hours 3**
An overview of research methodology, primarily for master's students. Offered fall, spring, and summer semesters.

BER545 Analy Variance In Educ  
**Hours 3**
This is a three-hour course in which the student will learn various forms of the General Linear Model (GLM) using Analysis of Variance (ANOVA) methods. One and Two-Way ANOVAs; including contrast and interaction analyses, analysis of covariance ANCOVA; Repeated Measures; and Mixed-Model design; non-parametric. SPSS is required. Offered fall and spring semesters.
Prerequisite(s): BER 540

BER550 Eval Classroom Learning  
**Hours 3**
A comprehensive contemporary approach to the development, application, and interpretation of teacher-made classroom assessments; use of textbook assessments to be aligned with national and state achievement standards. Attention is given to interpreting standardized norm and criterion referenced tests. Grading practices are presented especially to be aligned with No Child Left Behind Federal legislation 2001. Offered fall semester.

BER558 Intro To Psychometrics  
**Hours 3**
An introduction to classical and current theories and practices in psychometrics. Theory is presented together with exposure to many of the popular assessment procedures. Offered fall semester.
Prerequisite(s): BER 540 or by permission of instructor

BER600 Quant Research Methods  
**Hours 3**
An overview of research methods and procedures in education, primarily for doctoral students. Emphasis is given to the quantitative and qualitative methods used in writing a doctoral dissertation.

BER603 Survey Research In Educ  
**Hours 3**
Comprehensive introduction to using survey instruments for research purposes. Survey development, construction, validation scaling, sampling, and research methods as they apply to matching the survey to research questions are covered.
Prerequisite(s): BER 540

BER630 Case Study Research Methods  
**Hours 3**
Examines the production of case studies of individual practices, discrete institutions and organizations, and state-level policies. Explores the research methods that can inform the production of case study representations of human experience, as well as the different styles of case study writing. Offered summer term.

BER631 Inqry As Interp: Qual I  
**Hours 3**
Examines the history and philosophy of naturalistic studies of human experience. Concentrates on post-positivistic, phenomenological, structuralist, and post-structuralist theory and modes of analysis. Course assignments provide practice with rudimentary qualitative research skills. Offered fall, spring, and summer semesters.
BER632 Reflect Resist: Qual II
Hours 3
Examines the irony and ideology of naturalistic studies of human experience. Examines the epistemic limits of any method of research representation, and the political and ethical implications of those limits for researchers. Course assignments provide practice with intermediate qualitative research skills, including participant observation, field note development, and interviewing skills. Offered spring and summer semesters.
Prerequisite(s): BER 631 or BER 630

BER633 Ethics & Aesth:Qual III
Hours 3
Examines the ethics, aesthetics and opportunities for advocacy in naturalistic studies of human experience. Explores feminist, Afrocentric, critical theoretic, artistic and journalistic conceptions of data collection, and a variety of styles and formulas for research writing. Course assignments support the development of students' research interests and are geared toward scholarly publication. Offered all semesters.
Prerequisite(s): BER 630 or BER 631 with a minimum passing grade of C, and BER 632 with a minimum passing grade of C

BER634 Narrative Inquiry
Hours 3
This course serves as an introduction to narrative inquiry and analysis in qualitative research. Topics covered include: theoretical and philosophical underpinnings of narrative inquiry, ethics and reflexivity in narrative inquiry, analytic methods in narrative inquiry, narrative interviewing, and (re)presenting narrative work.
Prerequisite(s): BER 631 or equivalent

BER635 The Materialist Turn in Qualitative Inquiry
Hours 3
This course examines the implications of the materialist turn in qualitative inquiry, challenging students to think beyond linguistically-oriented forms of research (those based solely on words) to consider intersections with relationally-informed conceptions of materialism. Students will learn the theoretical bases for materialism and design a qualitative study informed from this perspective.
Prerequisite(s): BER 631 or equivalent

BER636 Qualitative Interviewing
Hours 3
This course serves as an introduction to qualitative interviewing in human subjects research. Topics covered include: 1) Types of qualitative interviews (e.g. phenomenological ethnographic, feminist, and focus group interviews); 2) The ways that theoretical frameworks have historically shaped interviewing and the ways that theories inform students’ interviewing approaches; 3) The ethical concerns of conducting different forms of interviews with different populations.
Prerequisite(s): BER 631 or equivalent

BER637 Arts-Based Research
Hours 3
This course consists both the historical and current landscape of artsbased research and its place in/against the field of qualitative research. Further, it engages students in readings that span the breadth of artsbased research practices, while cultivating opportunities for students to become arts-based research practitioners.
Prerequisite(s): BER 631 or equivalent

BER640 Quantitative II: Statistical Methods in Education II
Hours 3
The primary emphasis of this course focuses on the relationships between single dependent variable and one or two independent variables. Although more complex models can be considered (i.e. more than two independent variables) generalizations for the models discussed in this case can be applied to multiple-variable scenario. Topics covered include: one-way ANOVA, two-way ANOVA, repeated measures ANOVA and multiple regression.
Prerequisite(s): BER 540 or equivalent

BER641 Multivariate Statistics
Hours 3
Covers the following statistical procedures: principal component analysis, factor analysis, cluster analysis, multidimensional scaling, discriminate analysis, canonical correlation, and hierarchical linear modeling (HLM) and other interdependent multivariate methods.
Prerequisite(s): BER 640

BER642 Advanced Regression Methods
Hours 3
Different multiple regression methods are presented including an overview of ordinary least squares regression, ordinal regression, logistic and probit regression, loglinear, mixed, and regression discontinuity. Interpretation of results diagnostics, and applications are covered for the several glm models.
Prerequisite(s): BER 640

BER645 Advanced Experimental Design
Hours 3
Advanced statistical methods in Experimental Design, including specialty ANOVA designs and designing of experimental studies. Topics include Factorial ANOVA, Randomized Block Designs, Nested Designs, Random and Mixed Effects ANOVA, Repeated Measures ANOVA, and Incomplete Block Designs.
Prerequisite(s): BER 640

BER646 Structural Equation Modl
Hours 3
Includes an introduction to the basic concepts of structural equation modeling, including approaches to regression, path analysis, confirmatory factor analysis, and model building with dependent and independent variables. Offered spring.
Prerequisite(s): BER 641 or BER 642
BER658 Psychometric Theory Pract
Hours 3
Major topics include true score reliability, validity, classical theory, generalizability theory, contemporary theory: item response theory. Computer applications required. Offered spring of odd years.
Prerequisite(s): BER 540 and BER 558 with a minimum passing grade of C

BER660 Eval I: Theory & Practice
Hours 3
Concepts and techniques for evaluating education programs, projects, materials, curriculum, and personnel. Field work and computer analyses required. Offered fall semester.

BER661 Evaluation 2 Improvement Science Methodologies
Hours 3
This course will introduce students to the six principles of Improvement Science and related, "engaged research" methodologies (e.g. Design-Based Implementation Research, Developmental Evaluation). It will provide an opportunity to apply these principles to a problem of practice in schools and/or health and human service agencies. Students will learn to assess systems-level problems and barriers through Causal Systems Analysis, develop complex theories of action through diagrams, and design and implement Plan-Do-Study-Act (PDSA) Cycles.
Prerequisite(s): BER 540; BER 631

BER665 Mixed Methods Research Design
Hours 3
Course participants will be provided with an overview of the history and foundations of mixed methods research, literature on emerging trends in mixed methods research, types of MM designs, types of research problems addressed by MM research, data collection and analysis strategies, and reporting and evaluating mixed methods research.
Prerequisite(s): BER 540 and BER 631

BER672 Mentored Teaching in Educational Research Methodology
Hours 3
This course provides students with the opportunity to assist with teaching a research methods course. Working closely with an Educational Research faculty member, students will gain experience in designing curriculum, implementing thoughtful pedagogical practices, as well as insight into the affordances and challenges that accompany teaching various research-related topics.
Prerequisite(s): Completion of 12 credit hours in BER courses.

BER687 Field Work Educ Research
Hours 3-6
Faculty-supervised participation in research and other educational projects. Work is related to advisor's research interests. Field work required. Offered fall, spring and summer semesters.
Prerequisite(s): By permission of instructor only.

BER689 Practicum Educ Research
Hours 3-6
Practicum is a student-initiated research project done with faculty supervision. Field work is required. Offered fall, spring and summer semesters.
BSP601 Appl Pediatric Neuropsych
Hours 3
Study of applied brain-behavior relationship in the areas of academics, behavior, and social/emotional skills. Various disorders, assessment techniques, interventions, and preventions will be examined and discussed.

BSP625 Behavioral Consultation and Interventions for School-Based Problems
Hours 3
Study of consultation with teachers, administrators, parents, and various community agencies, emphasizing behavioral, ecological, mental health and organizational models and use of data-based decision making to plan and implement appropriate interventions for children with social and behavioral challenges and disabilities.

Prerequisite(s): BSP 500 or permission of the instructor

BSP635 Academic and Instructional Consultation and Intervention
Hours 3
Advanced study of assessment and remediation of academic skills problems for children with learning challenges and disabilities, instructional and academic consultation, aptitude-treatment interaction, study-skills training, self-regulation and monitoring, peer-influenced academic interventions, prevention, and other interventions to meet the needs of all students in inclusive settings.

Prerequisite(s): BSP 500 or permission of the instructor

BSP660 Psychopathology
Hours 3
Thorough examination of the history, scope, and understanding of abnormal behavior through the life span, with emphasis on educational and clinical implications. The most recent classification system is used to structure topics and issues in the course.

BSP673 Research/Ethics Seminar
Hours 3
Covers topics of current interest to school psychologists.

BSP686 Consult Interv Practicum
Hours 3
Requires 150 hours of supervised experience in conducting consultation and intervention (within a team-decision-making framework) with children, parents, teachers, and administrators in public schools and other agencies.

BSP687 Specialist Internship
Hours 3-6
The student performs the activities of a school psychologist in an educational or other agency, under supervision.

BSP688 Doctor Intern School Py
Hours 3-6
The student performs the duties of a school psychologist in an educational agency, under supervision.

BSP689 Res Pract School Psych
Hours 3
Participation in cooperative faculty/student research on some aspect of school psychology.

BSP690 Readings School Psych
Hours 1-6
An opportunity for the student to study intensively a topic in school psychology, covering a sizable body of literature (the topic chosen should nevertheless be narrower than that subsumed under the name of a course).

BSP696 Advanced Doctoral Practicum-School Psychology
Hours 1-3
Supervised field experiences for doctoral students in conducting school psychology assessment, consultation, and intervention with children, parents, teachers, and administrators in public schools or other agencies.

Prerequisite(s): BSP 500, BSP 515, BSP 516, BSP 625, BSP 635, BSP 586, BSP 686, BSP 601

BSP698 Non-Dissertatn Research
Hours 3
Participation in a research project relating to school psychology.

BSP699 Dissertation Research
Hours 1-12
Research for student’s dissertation.

Faculty

Department Head and Professor
Aaron Kuntz

Professors
Joy Burnham
Rick Houser
Randall Schumacker
Stephen I. Thoma

Associate professors
Jamie D. Mills
Sara Elizabeth Tomek

Assistant professors
Youn-Jeng Choi
Ryan Cook
Kelly Guyotte
Hyemin Han
Lisa Hsin
Katie Rose King
Michael Lawson
Wei Li
Junfei Lu
Wenchao Ma
Audrey Lustig Michal
Laura M. Morett
George Mugoya
Stephanie Shelton
Firat Soylu
Counselor Education, Ed.S.

The Educational Specialist degree in counselor education leads to advanced certification for school counselors. Successful completion of the program results in eligibility to be recommended for Class AA (specialist-level) certification as a school counselor.

Admission Requirements

Admission requires valid, master’s level certification in School Counseling and at least two full years of full-time acceptable professional educational work experience in a P-12 school system.

An entrance exam score (GRE score of at least 300 or the 50th percentile or above on the MAT) is needed for regular admission.

Admission requirements for the Graduate School (Admission Criteria) and the College of Education (General Admission (p. 387)) are detailed in earlier sections of this catalog.

Degree Requirements

A minimum of 30 hours of appropriate work beyond the MA degree in Counselor Education (School Counseling) and the completion of a comprehensive exam are required for the educational specialist degree. The course of study includes:

1. foundations of professional studies, 6 hrs
2. educational research, 3 hrs
3. instructional support area courses, 12 hrs
4. electives (which may be specified), 9 hrs (If a survey of special education course has not been completed, SPE 500 is required.)

A list of courses that fulfill these requirements may be obtained from the Counselor Education office.

The Graduate Catalog is published annually. Program checklists may be updated more frequently and are likely to provide the most up-to-date information about requirements. Students should obtain the most recent program checklists from their program advisors.

Please note: Courses taken for the prerequisite Class A certification and credits over six years old cannot be counted toward this degree. The certification programs of the department have been designed to fulfill current requirements of the Alabama State Board of Education.

In order to maintain compliance with the Alabama State Board of Education, admission and program requirements are subject to change.

For the most current information, please check with the Office of Student Services and Certification or the Program in Counselor Education.

Certification

To be awarded Alabama Class AA School Counselor certification, students must:

1. maintain a GPA of at least 3.5 (effective July 1, 2017) on all courses with no grade below a C
2. receive a passing score on a comprehensive assessment documenting mastery of the curriculum
3. hold valid, prerequisite Alabama Class A School Counselor certification
4. complete an application for certification through the Alabama State Department of Education

Counselor Education, Ph.D.

The PhD degree is also offered in Counselor Education.

The Council for Accreditation of Counseling and Related Programs (CACREP), a specialized accrediting body recognized by the Commission on Higher Education Accreditation (CHEA), has conferred accreditation on the following: Clinical Mental Health Counseling (MA), School Counseling (MA), and Counselor Education (PhD). The Council on Rehabilitation Education (CORE), also recognized by CHEA, has conferred accreditation for Rehabilitation Counseling (MA).

See the Admission Criteria section of this catalog for more information.

Admission Requirements

Cohort admission decisions are made annually. Admission to pursue a doctoral degree in Counselor Education is a two-step procedure. Regular admission to the Graduate School is the initial step for those seeking the doctoral degree. Within this step, students are engaged in post-master’s study and are subject to scrutiny and review by program faculty for their suitability for doctoral study. Statement of purpose and letters of recommendation consistent with goals of the program, entrance exam scores (300 or above on the GRE or at least the 50th percentile on the MAT), and a GPA of 3.0 on a 4.0 scale are needed for regular admission.

An applicant for doctoral study must:

1. possess a completed master’s degree in Counselor Education
2. when necessary, complete supplemental master’s-equivalency courses to comply with the CACREP-accredited course of study for the master’s degree
3. successfully complete a pre-admission doctoral interview for formal pursuit of the doctoral degree in Counselor Education

Course credit in post-master’s study may be used to fulfill doctoral degree requirements only after supplemental master’s-equivalency study is completed and a successful interview is conducted.

Degree Requirements

Degree requirements are noted on the official Plan of Study for the various degrees/tracks. These documents are available from the chairperson or administrative staff for the department.

All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

If later there are changes in the Plan of Study, the student submits an amended plan of study to the Graduate School at the time the
student applies for admission to candidacy for the degree. Admission to Candidacy forms are on the Graduate School's website.

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination.

Alternative Doctoral Residency in Counselor Education
The required doctoral residency may be met through a combination of traditional campus classes and online classes in Counselor Education. Students will complete a minimum of nine semester hours in each of the two contiguous residency semesters/terms of their doctoral study. No more than three semester hours of online graduate course work in Counselor Education may be taken during either of the nine-hour residency semesters/terms.

Counselor Education: Clinical Mental Health Counseling Option, MA
Three Master of Arts (MA) degree options in the Counselor Education Program provide the professional preparation necessary for work in schools, colleges, rehabilitation, agency, and clinical mental health settings. The MA programs are in Clinical Mental Health Counseling, School Counseling, and Rehabilitation Counseling. No thesis is required in any of the MA programs.

The Council for Accreditation of Counseling and Related Programs (CACREP), a specialized accrediting body recognized by the Commission on Higher Education Accreditation (CHEA), has conferred accreditation on the Clinical Mental Health Counseling (MA), School Counseling (MA), Rehabilitation Counseling (MA), and Counselor Education (PhD) degrees.

Admission Requirements
Admission decisions are made each semester. Admission to pursue a master's degree in any track within the program in Counselor Education is based upon success in admission for graduate study with the Graduate School. Statement of purpose and letters of recommendation consistent with goals of the program, entrance exam scores (300 or above on the GRE or at least the 50th percentile on the MAT), and a GPA of 3.0 on a 4.0 scale are needed for regular admission.

Degree Requirements
Degree requirements are noted on the official Plan of Study for the various degrees/tracks in Counselor Education. These documents are available from the chairperson or administrative staff for the department.

If later there are changes in the Plan of Study, the student applies for admission to candidacy for the degree. Admission to Candidacy forms are on the Graduate School's website.

Counselor Education: School Counseling Option, MA
Three Master of Arts (MA) degree options in the Counselor Education Program provide the professional preparation necessary for work in schools, colleges, rehabilitation, agency, and clinical mental health settings. The MA programs are in Clinical Mental Health Counseling, School Counseling, and Rehabilitation Counseling. The MA program in Rehabilitation Counseling requires a minimum of 60 semester hours of study. No thesis is required in any of the MA programs.

The Council for Accreditation of Counseling and Related Programs (CACREP), a specialized accrediting body recognized by the Commission on Higher Education Accreditation (CHEA), has conferred accreditation on the Clinical Mental Health Counseling (MA), School Counseling (MA), Rehabilitation Counseling (MA), and Counselor Education (PhD) degrees.

Counselor Education: Clinical Mental Health Counseling Option, MA
Three Master of Arts (MA) degree options in the Counselor Education Program provide the professional preparation necessary for work in schools and colleges, and in rehabilitation, agency, and clinical mental health settings. The MA programs are in Clinical Mental Health Counseling, School Counseling, and Rehabilitation Counseling. The MA program in Rehabilitation Counseling requires a minimum of 60 semester hours of study. No thesis is required in any of the MA programs.

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GRE or at least the 50 percentile on the MAT), and a GPA of 3.0 on a 4.0 scale are needed for regular admission.

Degree Requirements

Degree requirements are noted on the official Plan of Study for the various degrees in Counselor Education. These documents are available from the chairperson or administrative staff for the department. Program requirements are subject to change, so students should consult with their advisors each semester for the most current information.

If later there are changes in the Plan of Study, the student submits an amended Plan of Study to the Graduate School at the time the student applies for admission to candidacy for the degree. Admission to Candidacy forms are on the Graduate School's website.

Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C. Passing scores on a comprehensive exam and the appropriate Praxis assessment(s) are required.

Degree Requirements

The University of Alabama Educational Psychology Program admits candidates to the master’s (MA), Educational Specialist (EdS), Doctor of Education (EdD) and PhD graduate degree programs. The mission of this catalog. Additional information is in the Degree Requirements (p. 20) section of this catalog.

Educational Psychology, Ed.S.

The University of Alabama Educational Psychology Program admits candidates to the master’s (MA), Educational Specialist (EdS), Doctor of Education (EdD) and PhD graduate degree programs. The mission of the program is to provide students with a thorough understanding of the theory and research related to learners, learning, and developmental processes. All degree programs reflect this mission and prepare students for careers as faculty members within academic settings, researchers in agencies or businesses, and school practitioners. The program invites applications from all potential students, especially those in underrepresented populations.

Admission Requirements

Statement of purpose and letters of recommendation consistent with goals of the program, GRE score of 300 or above, and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Prospective students are encouraged to complete their applications by January 15 for admission the following fall.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

Doctoral degrees require 72 or more hours beyond the MA. Additional information is in the Degree Requirements (p. 20) section of this catalog.

Educational Psychology, Ed.D.

The University of Alabama Educational Psychology Program admits candidates to the master’s (MA), Educational Specialist (EdS), Doctor of Education (EdD) and PhD graduate degree programs. The mission of the program is to provide students with a thorough understanding of the theory and research related to learners, learning, and developmental processes. All degree programs reflect this mission and prepare students for careers as faculty members within academic settings, researchers in agencies or businesses, and school practitioners. The program invites applications from all potential students, especially those in underrepresented populations.

Admission Requirements

Statement of purpose and letters of recommendation consistent with goals of the program, GRE score of 300 or above, and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Prospective students are encouraged to complete their applications by January 15 for admission the following fall.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

EdS degrees require 30–33 hours beyond the MA. Additional information is in the Degree Requirements (p. 20) section of this catalog.

Educational Psychology, MA

The University of Alabama Educational Psychology Program admits candidates to the master’s (MA), Educational Specialist (EdS), Doctor of Education (EdD) and PhD graduate degree programs. The mission of the program is to provide students with a thorough understanding of the theory and research related to learners, learning, and developmental processes. All degree programs reflect this mission and prepare students for careers as faculty members within academic settings, researchers in agencies or businesses, and school practitioners. The program invites applications from all potential students, especially those in underrepresented populations.
The MA in Educational Psychology provides an advanced introduction to the field. Students may select a thesis or nonthesis option. There are also two MA options offered in collaboration with educational research. These options are: learning and evaluation (thesis and nonthesis options) and program evaluation (nonthesis only). In addition, the program offers a learning and assessment MA in an online format designed for practitioners interested in developing a strength in educational research as it relates to the learning process and assessment practices within educational settings. (For further information, see http://bamabydistance.ua.edu/degrees/ma-in-ed-psych-learning-and-assessment/index.php).

See the Admission Criteria section of this catalog for more information.

**Admission Requirements**

Statement of purpose and letters of recommendation consistent with goals of the program, GRE score of at least 300 or a MAT score in the 50 percentile or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission.

**Summary of Degree and Program Requirements**

A major part of graduate training is successful participation in courses. Coursework requirements for the MA degree options in Educational Psychology are listed in this booklet. The MA degree requires 30 graduate credit hours.

Coursework requirements are found in “Program Planning Records.” Each student is expected to maintain a Program Planning Record with his/her/their adviser in order to monitor completion of coursework requirements.

Each student is appointed a temporary faculty adviser upon initial acceptance into the program. A student may select a permanent adviser after beginning coursework. Advisers assist students with planning coursework, registering for courses, completing program planning records, portfolio evaluations and other activities.

**Program Outcomes**

All degree requirements in the Educational Psychology Program are carefully designed and sequenced according to program outcomes. Program outcomes are the areas of knowledge and skill students are expected to demonstrate upon successful completion of the coursework and other training activities. Students provide evidence of each program outcome during the required portfolio evaluations. Program outcomes for the MA degree in Educational Psychology are listed in this booklet.

**Transfer of Credit and Use of Previous Graduate Work**

The University of Alabama allows students to transfer equivalent courses from other accredited institutions where the student was enrolled in the graduate school. Up to one-half of the required coursework, exclusive of thesis or dissertation credit, may be transferred from another institution. Credits may be transferred only if they were earned during the six-year period prior to admission to the program. Transfer of courses must be approved by the student’s adviser. The Dean of the Graduate School must also approve transfer of courses. The Graduate School form to request consideration of transfer of credits is located in the Student Handbook.

**Limits on Coursework**

Educational Psychology Program requirements exclude credit for undergraduate study, study which is remedial, or study which is designed to remove deficiencies in meeting requirements for program admission. In addition, the program limits the number of courses not open exclusively to graduate students to no more than one-third of a student’s program.

**Continuous Portfolio Reviews**

All students in the Educational Psychology Program are required to participate in a continuous portfolio review process in order to monitor student progress and determine that program outcomes are being achieved. A general description of the portfolio review process, including a portfolio checklist and rating scale, is located in the Student Handbook. Specific requirements for portfolios for the M.A. degree are located in this booklet.

**Research Participation**

All students in the Educational Psychology Program are expected to obtain skills in research. Each student is expected to join a faculty member’s research team during the first semester of graduate study. Masters’ and Ed.S. students take a number of research courses and are encouraged to participate in research projects during courses and field experiences.

**Comprehensive Examinations**

All degree students in the Educational Psychology Programs are required to successfully complete written comprehensive examinations before the degrees will be granted. The specific procedures for comprehensive examinations for the M.A. degree are designed in collaboration with the student’s advisor. The examinations are completed independently on a “take-home” basis, and require students to integrate knowledge and skills obtained during coursework and other training activities. Each student is allowed to take comprehensive examinations only twice.

**Educational Psychology, Ph.D.**

The University of Alabama Educational Psychology Program admits candidates to the master’s (MA), Educational Specialist (EdS), Doctor of Education (EdD), and PhD graduate degree programs. The mission of the program is to provide students with a thorough understanding of the theory and research related to learners, learning, and developmental processes. All degree programs reflect this mission and prepare students for careers as faculty members within academic settings, researchers in agencies or businesses, and school practitioners. The program invites applications from all potential students, especially those in underrepresented populations.

The PhD is an advanced research degree and is designed specifically for students interested in careers within academic and research settings. PhD students may develop areas of study in:

- Learning
- Motivation
- Human Development
- Educational Neuroscience (an established PhD concentration)

**Admission Requirements**

Statement of purpose and letters of recommendation consistent with goals of the program, GRE score of 300 or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Prospective students requiring financial support should complete their applications by January 15 for admission the following fall.

See the Admission Criteria section of this catalog for more information.

**Degree Requirements**

Doctoral degrees require 72 or more hours.
Additional information is in the Degree Requirements (p. 20) section of this catalog.

**Educational Psychology-School Psychometry, MA**

The University of Alabama School Psychology Program is designed to provide exemplary graduate training in research, application, and practice related to learning, development, and mental health of children and youth, as well as their families, educators, and other professionals who work with them. The School Psychology Program admits candidates to the master's (MA), educational specialist (EdS), and PhD graduate degree programs. The degrees in school psychology prepare candidates for direct school-based practice and, for PhD candidates, careers in academic and other settings as faculty members, researchers, and practitioners. The degree programs in school psychology focus on the provision of school psychology services that are based on a strong foundation of research and application related to learners and learning processes. The school psychology degree programs include an integrated and sequential program of study with comprehensive coursework and supervised field experiences. Candidates participate in courses and seminars in assessment and data collection; interventions and decision making, prevention and consultation, professional school psychology, sociocultural foundations, psychological foundations, human development, educational foundations, statistics and research, and other areas. Candidates are required to participate in extensive practicum, internship, and research experiences.

Two options are available for the MA degree: On-campus option and distance learning option. In the on-campus option, our MA degree is incorporated into program requirements for candidates in our EdS and PhD degree programs. The MA degree is required and built into our program of study, and students admitted to the EdS or PhD program receive the MA along the way during their programs. After about one-and-one-half years into their graduate programs of study, EdS and PhD candidates have completed the 33 graduate credits for the MA degree during the course of their EdS or PhD programs. EdS and PhD students then go on to complete the additional coursework, practica and internships for their EdS or PhD degrees.

The distance learning option blends online classes with intensive campus weekends and is offered through the College of Continuing Studies: http://bamabydistance.ua.edu/degrees/educational-psychology-school-psychometry/index.php. The distance learning program does not hold NASP approval. Currently, only applicants who hold a valid bachelor’s-level Professional Educator Certificate in a teaching field or a valid master’s-level Professional Educator Certificate in another area of instructional support will be considered for the distance program.

**Admission Requirements**

Applicants to the on-campus program are encouraged to complete their applications by January 15 for admission the following fall semester. Statement of purpose and letters of recommendation consistent with goals of the program, GRE score of 300 or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Applicants may be considered for admission in some circumstances if they meet either the GPA requirement OR the GRE score requirement; however, both factors are considered. In addition, distance learning applicants must meet admission requirements established by the Alabama State Department of Education:

1. valid bachelor’s level or master’s level professional educator certificate in a teaching field OR valid master’s level professional educator certificate in another area of instructional support,
2. two years of acceptable educational experience, and
3. fingerprinting/background clearance

See the Admission Criteria section of this catalog for more information.

**Degree Requirements (Distance Learning Program)**

This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Foundations of Professional Studies:</th>
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<tbody>
<tr>
<td></td>
<td>BSP 500 Intro School Psychology</td>
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<tr>
<td></td>
<td>BEP 541 Foundations of Learning and Cognition</td>
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**Educational Research:**

<table>
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<tr>
<th>Hours</th>
<th>BEF 534 Multicultural Education *</th>
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<td></td>
<td>Curriculum, Instruction, and Remediation:</td>
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<td></td>
<td>CRD 569 Intro to Literacy Education **</td>
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**Interventions/Problem Solving:**

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<tr>
<th>Hours</th>
<th>BCE 512 Counseling Theory Proc</th>
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<tr>
<td></td>
<td>BCE 515 Practicum Counseling I</td>
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<td></td>
<td>BCE 516 Practicum Counseling II</td>
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<tr>
<td></td>
<td>Practica/Internship (minimum of 300 hours):</td>
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<tr>
<td></td>
<td>BSP 588 Intern School Psychometry</td>
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<td></td>
<td>SPE 500, or another program-approved special education elective</td>
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**Total Hours** 33

* SDE-approved diversity course
** CRD 569 Intro to Literacy Education or a program-approved curriculum/instruction substitute

**Certification**

Requirements for certification and licensure in School Psychometry vary from state to state. Students are expected to determine the requirements for the state in which they intend to practice before beginning the program.

Graduates who met admission criteria above and obtain the MA degree in Educational Psychology-School Psychology in the distance learning program may be eligible for Alabama Class A certification in School Psychometry IF the following prerequisites are met:

- a passing score on comprehensive exams, and
Qualitative Research, Graduate Certificate

The primary mission of the Educational Research Program is to offer a quality graduate program that prepares scholars to critically engage in educational research and evaluation, develop appropriate and innovative research designs, and contribute conceptually sound analyses to the overlapping fields of education, the social sciences, and the health sciences.

The Educational Research Program offers a PhD in educational research and post-master's certificate in qualitative or quantitative research. There is an EdS offered in conjunction with educational psychology. There are also two MA options offered in collaboration with educational psychology. These options are learning and evaluation (thesis and nonthesis options), and program evaluation (nonthesis only). The degrees require coursework in educational statistics, assessment/measurement, program evaluation, and qualitative research. A student may choose to specialize in educational statistics, program evaluation, assessment/ measurement, research methodology, or qualitative research at the PhD level. Field experiences are required as part of the program.

Graduate Certificate in Qualitative Research

The Graduate Certificate in Qualitative Research is a 15-credit course sequence that integrates theoretical knowledge with practical application and field-based experience. Students who complete the certificate will have developed the methodological expertise and background necessary to be recognized as an emerging scholar in the field of qualitative inquiry. Though this certificate is housed in the College of Education, students from all disciplines are welcome to apply.

Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 632</td>
<td>Reflect Resist: Qual II</td>
<td>3</td>
</tr>
<tr>
<td>BER 633</td>
<td>Ethics &amp; Aesth:Qual III</td>
<td>3</td>
</tr>
<tr>
<td>BER 630</td>
<td>Case Study Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>BER 687</td>
<td>Field Work Educ Research</td>
<td>3</td>
</tr>
<tr>
<td>BER 695</td>
<td>Spec Top in Ed Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

How to Apply:
1. Apply through the Graduate School's online application center.
2. Select the Qualitative Research Certificate Program when applying

Application Materials include:
1. Statement of Purpose focusing on the student's goals in pursuing a Qualitative Research certificate;
2. Writing sample submitted directly to the department for faculty consideration

General Requirements:
- Student must have a Master's degree in education (or a related field) and be accepted to the Qualitative Research non-degree certificate program by the Graduate School and departmental faculty.
- Applications will consist of evidence of having a Master's degree, a statement of purpose, and writing sample.
- Student must have a minimum of 15 required hours.
The primary mission of the Educational Research Program is to offer a quality graduate program that prepares scholars to critically engage with educational research and evaluation, develop appropriate and innovative research design, and contribute conceptually sound analyses to the overlapping fields of education, the social sciences, and the health sciences.

The Educational Research Program offers the PhD in educational research and post-master's certificate in qualitative or quantitative research. There is an EdS offered in conjunction with educational psychology. There are also two MA options offered in collaboration with educational psychology. These options are learning and evaluation (thesis and nonthesis options), and program evaluation (nonthesis only). The degrees require coursework in educational statistics, assessment/measurement, program evaluation, and qualitative research. A student may choose to specialize in educational statistics, program evaluation, assessment/measurement, research methodology, or qualitative research at the PhD level. Field experiences are required as part of the program.

See the Admission Criteria section of this catalog for more information.

Requirements for the Graduate School (Degree Requirements (p. 20)) and the College of Education (Master's (p. 20), Professional Certification, EdS, Doctoral (p. 20)) are detailed in earlier sections of this catalog. For specific program requirements visit the College of Education Programs website or for a student handbook and additional information, email or call: Chairperson, School Psychology, The University of Alabama, College of Education, Box 870231, Tuscaloosa, AL 35487-0231; phone 205-348-7575; fax 205-348-0683; program office, 306 Carmichael Hall, email: pharriso@bamaed.ua.edu.

**Graduate Certificate in Quantitative Educational Research**

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 641 or Multivariate Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Certificate Completion Requirements:**

1. All courses listed above
2. Capstone Presentation

Time Limit: 6 Years.

You may contact Dr. Aaron Kuntz (akuntz@bamaed.ua.edu) or Dr. Kelly Guyotte (kguyotte@bamaed.ua.edu) for more information.

### How to Apply:

1. Apply through the Graduate School’s online application center.

Application Materials include:

1. Statement of Purpose focusing on the student’s goals in pursuing a Quantitative Research certificate;
2. Evidence of prerequisite research/statistics courses comparable to BER 640 Quantitative Research II, must have achieved a grade of B or better in prerequisite research courses.

**General Requirements:**

- Student must have a Master’s degree in education (or a related field) and be accepted to the Quantitative Research non-degree certificate program by the Graduate School and departmental faculty.
- Applications will consist of evidence of having a Master’s degree, a statement of purpose and evidence of prerequisite courses.
- Student must have a minimum of 15 required hours.
- Certificate completion will be monitored by certificate program administrators.

Certificate Completion Requirements: All courses listed above

Time Limit: 6 Years.

You may contact Dr. Jamie Mills about enrolling in this certificate: jmills@bamaed.ua.edu

### Research Methodology, Ed.S.

The primary mission of the Educational Research Program is to offer a quality graduate program that prepares scholars to critically engage with educational research and evaluation, develop appropriate and innovative research design, and contribute conceptually sound analyses to the overlapping fields of education, the social sciences, and the health sciences.

The program in educational research offers the PhD in educational research and post-master’s certificate in qualitative or quantitative research. There is an EdS offered in conjunction with Educational Psychology. There are also two MA options offered in collaboration with educational psychology. These options are: Learning and Evaluation (thesis and nonthesis options) and program evaluation (nonthesis only). The degrees require coursework in educational statistics, assessment/measurement, program evaluation, and qualitative research. A student may choose to specialize in educational statistics, program evaluation, assessment/measurement, research methodology, or qualitative research at the PhD level. Field experiences are required as part of the program.

### Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 642</td>
<td>Advanced Regression Methods</td>
<td>3</td>
</tr>
<tr>
<td>BER 645</td>
<td>Advanced Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>BER 658</td>
<td>Psychometric Theory Prac</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 603</td>
<td>Survey Research In Educ</td>
<td>6</td>
</tr>
<tr>
<td>BER 646</td>
<td>Structural Equation Modl</td>
<td></td>
</tr>
<tr>
<td>BER 660</td>
<td>Eval I:Theory &amp; Practice</td>
<td></td>
</tr>
<tr>
<td>BER 695</td>
<td>Spec Top in Ed Research</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 15
Admission Requirements

Admission to pursue an educational specialist degree in educational psychology (Educational Research emphasis) is based upon success in admission for graduate study with the Graduate School as well as the following: completion of a master's degree in the behavioral sciences, education, math or statistics.

Statement of purpose and letters of recommendation consistent with goals of the program, GRE score of 300 or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Prospective students are encouraged to complete their applications by January 15 for admission the following fall.

See the Admission Criteria section of this catalog for more information.

School Psychology, Ed.S.

School Psychology

The University of Alabama’s School Psychology program is designed to provide exemplary graduate training in research, application, and practice related to learning, development, and mental health of children and youth, as well as their families, educators, and other professionals who work with them. The School Psychology Program admits candidates to the master’s (MA), educational specialist (EdS), and PhD graduate degree programs. The degree programs prepare candidates for direct school-based practice and, for PhD candidates, careers in academic and other settings as faculty members, researchers, and practitioners. These programs focus on the provision of school psychology services that are based on a strong foundation of research and application related to learners and learning processes, and they include an integrated and sequential program of study with comprehensive coursework and supervised field experiences. Candidates participate in courses and seminars in assessment and data collection; interventions and decision making, prevention and consultation, professional school psychology, sociocultural foundations, psychological foundations, human development, educational foundations, statistics and research, and other areas. Candidates are required to participate in extensive practicum, internship, and research experiences.

Two options are available for the EdS degree: On-campus option and distance learning option:

The traditional, on-campus EdS and PhD degrees in the School Psychology Program hold full approval status from the National Association of School Psychologists (NASP) and national recognition by CAEP. Applicants with undergraduate or previous graduate degree in psychology, education, human development, or related fields are eligible for admission to the traditional, on-campus School Psychology program.

The distance learning option blends online classes with intensive campus weekends and is offered through the College of Continuing Studies. The distance learning program does NOT hold NASP approval. Currently, only applicants who hold master’s level, professional educator certification in psychometry or special education from a state department of education will be considered for the hybrid program.

Admission Requirements

Statement of purpose, vita/resume, and letters of recommendation consistent with goals of the program, GRE score of 300 or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Applicants may also be considered for admission in some circumstances if they meet either the GPA requirement OR the GRE score requirement, but not both.

Applicants to the on-campus program are encouraged to complete their applications by January 15 for admission the following fall semester. Note that a prior graduate degree or educator certification is NOT required for admission to our on-campus EdS or PhD degree programs.

Applicants to the distance learning program are encouraged to complete their applications by April 15. Statement of purpose, vita/resume and letters of recommendation consistent with goals of the program, GRE score of 300 or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Applicants may also be considered for admission in some circumstances if they meet either the GPA requirement OR the GRE score requirement, but not both. In addition, distance learning applicants must meet admission requirements established by the Alabama State Department of Education:

1. valid master's level certification as a school psychometrist or in special education
2. two years of acceptable educational experience
3. fingerprinting/background clearance

See the Admission Criteria section of this catalog for more information.

Certification

Requirements for certification and licensure in school psychology vary from state to state. Students are expected to determine the requirements in the state or states in which they are interested in practicing before beginning the program. The degrees from the School Psychology program may lead to state and national credentials:

- Graduates of the NASP-approved (main campus) program, who obtain the EdS and PhD degrees in School Psychology, are eligible for the National Certification in School Psychology (NCSP), following successful completion of the national school psychologist Praxis assessment and internship. The NCSP is used by over 30 states, including Alabama, as one possible route to grant state certification in school psychology.
- Graduates of the distance learning program who obtain the EdS in Educational Psychology-School Psychology may be eligible for Alabama Class AA certification in School Psychology if the following prerequisites are met:
  a. a minimum GPA of 3.50 on all program courses (effective for candidates unconditionally admitted to a Class AA School Psychology program July 1, 2017, and thereafter.)

Requirements for the Graduate School (Degree Requirements (p. 20)) and the College of Education (Master’s (p. 20), Professional Certification, EdS (p. 22), Doctoral (p. 23)) are detailed in earlier sections of this catalog. For specific program requirements visit the College of Education Programs web site or for a student handbook and additional information, email or call: Chairperson, School Psychology, The University of Alabama, College of Education, Box 870231, Tuscaloosa, AL 35487-0231; phone (205) 348-7575; fax (205) 348-0683; program office, 306 Carmichael Hall, email: pharriso@bamaed.ua.edu.
School Psychology, Ph.D.

School Psychology

The University of Alabama School Psychology Program is designed to provide exemplary graduate training in research, application, and practice related to learning, development, and mental health of children and youth, as well as their families, educators, and other professionals who work with them. The School Psychology Program admits candidates to the master’s (MA), educational specialist (EdS), and PhD graduate degree programs. The degrees in school psychology prepare candidates for direct school-based practice and, for PhD candidates, careers in academic and other settings as faculty members, researchers, and practitioners. The degree programs in school psychology focus on the provision of school psychology services that are based on a strong foundation of research and application related to learners and learning processes. The school psychology degree programs include an integrated and sequential program of study with comprehensive coursework and supervised field experiences. Candidates participate in courses and seminars in assessment and data collection; interventions and decision making, prevention and consultation, professional school psychology, sociocultural foundations, psychological foundations, human development, educational foundations, statistics and research, and other areas. Candidates are required to participate in extensive practicum, internship, and research experiences.

The PhD program is an on-campus option only; there is no distance learning option.

Admission Requirements

Prospective students for the PhD program are encouraged to complete their applications by January 15 for admission the following fall semester. Statement of purpose, vita/resume, and letters of recommendation consistent with goals of the program, GRE score of 300 or above and a GPA of 3.0 on a 4.0 scale are needed for regular admission. Applicants may also be considered for admission in some special circumstances if they meet either the GPA requirement OR the GRE score requirement, but not both. Note that a prior graduate degree or educator certification is NOT required for admission to our on-campus PhD degree program.

Certification

Requirements for certification and licensure in school psychology vary from state to state. Students are expected to determine the requirements in the state or states in which they are interested in practicing before beginning the program. The degrees from the School Psychology program may lead to state and national credentials:

- Graduates of the NASP-approved (main campus) program, who obtain the EdS and PhD degrees in School Psychology, are eligible for the National Certification in School Psychology (NCSP), following successful completion of the national school psychologist Praxis assessment and internship. The NCSP is used by over 30 states, including Alabama, as one possible route to grant state certification in school psychology.


Requirements for the Graduate School (Degree Requirements (p. 20)) and the College of Education (Master’s (p. 20), Professional Certification, EdS (p. 20), Doctoral (p. 23)) are detailed in other sections of this catalog. For specific program requirements visit the College of Education website or for a student handbook and additional information, email or call: Program Coordinator, School Psychology, The University of Alabama, College of Education, Box 870231, Tuscaloosa, AL 35487-0231; phone (205) 348-7575; fax (205) 348-0683; program office, 306 Carmichael Hall. http://education.ua.edu/academics/esprmc/bsp

Department of Kinesiology (KIN)

- Majors
  - Human Performance (MA) (p. 447)
  - Human Performance (PhD) (p. 449)

KIN500 Sociology of Sport
Hours 3

Examines the institution of sport from a sociological perspective. Provides an opportunity to critically analyze the assumptions surrounding the social significance of sport through a process of reflective thought.

KIN506 Techniques of Research
Hours 3

Designed to acquaint the student with the types of research and the methods and materials necessary for scientific inquiry. Includes the development of a research proposal, with emphasis on form and style.

KIN507 Lab Techniques Phys Education
Hours 3

Theoretical and practical understanding of physiological instrumentation and measurement in physical education, including practical laboratory experiences, as preparation for graduate research or other research opportunities.

KIN508 Perceptual Motor Development
Hours 3

Perceptual-motor development of infants and young children. Current philosophies, theories, and methods; laboratory work in movement exploration. A clinical experience is required.

KIN510 Tchg & Supervg Elem PE
Hours 3

Open to elementary education and physical education majors. Reviews the essential concepts for successfully teaching grades 1-6; learning, function and duties of consultant.

KIN511 Readings in Sport Management: Trends and Issues
Hours 3

Online course. This course is designed to provide students with an opportunity to immerse themselves in the extant literature relating to trends and issues in sport and recreation management. Emphasis will be placed on approaches to proactively implement the contemporary trends.

KIN512 PE Curriculum
Hours 3

Program content and curriculum planning in grades 1-12 and higher education; includes developing curriculum plan applicable to one's need.
KIN538 Adv Adapted Phys Ed.  
Hours 3  
Pertinent information concerning legislation, mainstreaming, the physical education IEP, and movement problems of individuals who deviate from the norm. A clinical experience is required.

KIN551 Sport Management Internship  
Hours 3  
This course provides students with the opportunity to gain applied, practical experience in a suitable sport management related setting.

KIN552 Legal Issues in Sport  
Hours 3  
Legal Issues in Sport provides an overview of legal issues that frequently arise in the context of sport and physical activity. Emphasis will be placed on how sport managers should respond to specific situations based on the law.

KIN553 Sport Facility and Event Management  
Hours 3  
This course will provide students with an understanding of the factors involved in planning, designing, equipping, and managing sport facilities and event logistics.

KIN555 Sport Finance  
Hours 3  
An overview of the budgeting process, sources of revenue, types of expenditures, issued and innovations in financing for sport management.

KIN562 Admin Sports Programs  
Hours 3  
Problems and issues in organizing and administering secondary and college athletic programs.

KIN566 Evaluation in Phys Education  
Hours 3  
Covers practical aspects of measurements and evaluation in schools and colleges to measure clients, patients, and students. A practical measurement/evaluation on project is completed.

KIN585 Lab & Field Experience  
Hours 3,6  
Provides for teaching laboratory, internship, and/or practicum experiences, according to individual needs and goals.

KIN588 Marketing and the Media  
Hours 3  
This course examines the various components of sport marketing and consumer culture. Particular emphasis is given to the influence of the media in promoting sporting goods and products.

KIN590 Sports/Dance Workshop  
Hours 1-6  
In-depth study of physical education subject matters (gymnastics, dance, fitness, aquatics, track and field, and sports/games) focusing on content, theoretical frameworks, and educational perspectives. Students enroll in 1-credit-hour workshops according to individual needs and certification requirements.

KIN592 Physiology of Exercise  
Hours 3  
Designed to be an overview of the human physiological response to exercise.

KIN593 Advanced Fitness Testing and Exercise Prescription  
Hours 3  
Explores advanced fitness testing and exercise prescription techniques using practical experiences.

KIN595 Workshop Physical Education  
Hours 1-6  
This course is designed to help students improve their ability to teach elementary, secondary, and/or college physical education and understand theory and research as it is applied in each setting.

KIN596 Independent Study  
Hours 1-3  
Designed to provide the opportunity for independent study in a specific area of physical education.

KIN598 Non-Thesis Research  
Hours 3  
Experimental or analytical investigation of problems in physical education.

KIN599 Thesis Research  
Hours 1-6  
Research in a selected area of physical education.

KIN602 Readings Physical Education  
Hours 3  
An independent readings course for doctoral students.

KIN603 Special Proj Physical Ed  
Hours 3  
Experimental or analytical investigations of problems in physical education, arranged on an independent basis for doctoral students.

KIN604 Sem in Physical Education  
Hours 3  
Critical issues in athletics, curriculum, instruction, evaluation, research, fitness, individual differences, and financial support.

KIN612 Res Phys Ed Teach Education  
Hours 3  
An examination of the development, design, and application of research in physical education/teacher education.

KIN615 Organizational Behavior & Theory Development in Sport  
Hours 3  
The purpose of this course is to introduce the student to critical areas of sport management and the theories associated with organizational behavior and theory development.

KIN622 Analy Res Teach Phys Ed  
Hours 3  
A thorough analysis of published research on teaching in physical education.
KIN632 System Observ Phys Educ  
Hours 3  
An examination of analytical techniques used to collect and evaluate data related to teacher and student behaviors. Instruction in the development and use of systematic observation instruments is provided.

KIN642 Instruct Design PE High Ed  
Hours 3  
An examination of methods, applications, and current research related to instructional design.

KIN685 Field & Lab Experience  
Hours 3  
Arranged on an independent basis for doctoral students. Participation and research in schools and agencies.

KIN690 Exercise Health Disease  
Hours 3  
Designed to acquaint the student with the health benefits of regular physical activity and exercise. The most recent research literature is critically analyzed.

KIN691 Res Sociology Human Perf  
Hours 3  
Provides students with an in-depth understanding of the literature on the occupational socialization of physical education teachers.

KIN692 Sem Exercise Physiology  
Hours 3  
Provides an opportunity to study in depth the scientific literature related to various exercise physiology topics. May be taken more than once.

KIN698 Non-Dissertn Research  
Hours 3  
Experimental or analytical investigation of problems in kinesiology.

KIN699 Dissertation Research  
Hours 1-15  
Design, research, and/or analytical investigation of a problem in the field of kinesiology to satisfy the dissertation requirement for the doctoral degree.

Faculty
Department Head and Associate Professor  
Jonathan Wingo

Professors  
Matthew D. Curtner-Smith  
Mark T. Richardson  
John Vincent

Associate professors  
Michael Esco  
Brent L. Hardin  
Oleg A. Sinelnikov

Assistant professors  
Michael Fedewa  
Hayley MacDonald  
K. Andrew R. Richards

Dylan Williams

Clinical assistant professors  
Colleen Geary  
Margaret Stran  
Elizabeth Woodruff

Clinical instructor  
Evan Enquist

Human Performance, MA

The Department of Kinesiology offers the Master of Arts degree with the following areas of study:

- sport management (two options: non-certification or Class A Sport Manager certification)
- exercise science
- general studies in human performance (coursework options from exercise science, sport pedagogy, and sport management)
- sport pedagogy (traditional Class A and Alternative Class A certification in physical education)

The latter three programs are available under Plan I (thesis) and Plan II (nonthesis). The sport management area of study involves completing a “Capstone experience” project. In addition, there is a sport management area of study that leads to Class A Sport Manager certification. The sport pedagogy area of study leads to Class A Physical Education certification. Additionally, the sport pedagogy area of study offers a non-traditional approach to certification for those with an undergraduate degree in a non-teaching field and leads to Alternative Class A certification in physical education.

There are admission requirements specific to the department in addition to those in the Graduate Catalogs on Admission Criteria. Please pay special attention to the Degree Requirements (p. 20) section of this catalog for important information on transfer of course work, time limits, plan of study, admission to candidacy, etc.

See the Admission Criteria section of this catalog for more information.

For the College of Education, note the sections on General Admission (p. 11), Master’s (p. 20), Professional Certification, and Doctoral (p. 20) earlier in this catalog.

Physical Education, Traditional Class A Certification

For admission, applicants must hold appropriate prior certification in physical education (P-12) or the approved equivalent.

This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. A minimum of 30 hrs of course credit must be earned, and a comprehensive exam must be successfully completed. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

Required course:

KIN 510 Tchg & Supervg Elem PE  3

Foundations of Professional Studies:

KIN 691 Res Sociology Human Perf  3

Select ONE course from these SDE approved diversity courses:  3

BEF 503 History Of Amer Edcun
BEF 507 Sociology Of Education
All courses in the program, with no grade below a C, and earn passing scores on a comprehensive exam and the appropriate Praxis subject assessment(s).

**Curriculum and Teaching:**
- KIN 510  Tchg & Supervg Elem PE  3
- KIN 512  PE Curriculum  3

**Foundations of Professional Studies:**
- BEF 510  Phil Hist Socl Founds Ed  3

**Technology:**
- CAT 531  Computer Based Instruction  3

**Evaluation of Teaching and Learning:**
- KIN 566 is required if KIN 366 was not taken prior to unconditional admission.

**Literacy:**
- CRD 512 is required if CRD 350 was not taken prior to unconditional admission.

**Teaching Field:**
- KIN 595  Workshop Physical Education  6
- KIN 590  Sports/Dance Workshop  6

**Full-time Internship:**
- KIN 585  Lab & Field Experience  6

**Special Education Coursework:**
- SPE 500 is required if SPE 300 was not completed prior to unconditional admission.

**Total Hours:**
- 30-39

**Physical Education, Alternative Class A Certification**

In addition to meeting admission requirements of the Graduate School, applicants must complete specified undergraduate prerequisite courses.

For admission to the Alternative Class A (non-traditional) program in physical education (sport pedagogy), applicants must meet the following requirements:

- **Transcript evaluation:** Applicants should contact the Office of Student Services & Certification for a transcript evaluation to determine prerequisite courses and other requirements.
- **Degree requirement:** An appropriate bachelor’s degree from a regionally accredited institution with a minimum overall GPA of 2.75 OR a master’s degree with a GPA of at least 3.0 is required.
- **Assessment of basic skills:** Applicants must meet current basic skills requirements of the Alabama Educator Certification Assessment Program (AECAP). Effective September 1, 2017, passing scores on the Praxis Core Academic Skills for Educators Tests of mathematics, reading and writing are required (or passing scores on all components of the previously accepted Basic Skills assessment before 9/1/17). Information about the Praxis Core tests is available online at https://www.ets.org/praxis/al/al_teacher_ed or in the Office of Student Services & Certification (104 Carmichael Hall).
- **Teaching Field:** Applicants must have an academic content major (or the equivalent) in the teaching field. The transcript evaluation will determine if an applicant meets the teaching field requirement.
- **Fingerprinting/background clearance**

This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C, and earn passing scores on a comprehensive exam and the appropriate Praxis subject assessment(s).
Human Performance, Ph.D.

The Department of Kinesiology offers programs leading to the Doctor of Philosophy (PhD) degree in human performance with areas of study in exercise science and sport pedagogy.

Exercise Science

The Doctor of Philosophy (Ph.D.) degree with a specialization in exercise science has been designed to provide students with the coursework, laboratory, and practical experiences to become a leading educator and researcher.

Admission

Admission to the PhD program area of study in exercise science is competitive and based on prior academic achievement, graduate record examination (GRE) scores, recommendations, and research interests. Minimum requirements consist of:

- a master's degree from an accredited institution
- a composite (verbal and quantitative) GRE score of 300
- one of the following:
  - 3.0 GPA for the last 60 semester hours in a degree program
  - 3.0 GPA for a completed graduate degree program.

Preference is given to students who have strong backgrounds in the Life Sciences or related fields, meet the minimum requirements stated above, and have research interests compatible with at least one of the Exercise Science faculty members.

Financial Support

A limited number of graduate assistantships are available each year. These assistantships are awarded on a competitive basis. Graduate assistants may be asked to assist with teaching, research, and/or the outreach mission of the academic unit.

Procedures & Deadlines

Interested applicants should apply online to the Graduate School of the University of Alabama (http://graduate.ua.edu/applicants.html). Students will be admitted on a rolling basis at the discretion of program faculty as applications are received. Prospective students should identify a prospective research mentor and contact that person for more information regarding an admission timeline.

Residency Requirement

A minimum of two academic years of graduate study beyond the master's degree is required for completion of the Ph.D. program in the College of Education. At least one year of doctoral study must be spent in continuous residence as a full-time student (see also Alternative Residency Options on the departmental website).

Sequence of Steps through the Ph.D. Program

The sequence of steps for a doctoral student from admission to graduation is:

1. Satisfaction of admission requirements
2. Formation of doctoral program of study
3. Completion of coursework
4. Completion of major comprehensive exams
5. Formation of doctoral dissertation committee
6. Proposal of doctoral dissertation
7. Admission to candidacy
8. Oral examination of the dissertation
9. Submission of final copies of the dissertation

The Program

The Ph.D. degree requires a minimum of 72 hours beyond the master's degree. This program includes 1) 24-hour exercise science core; 2) 12-hour competency in research and statistics; 3) 12 hours of foundation courses (e.g., human physiology, biochemistry, endocrinology, etc.) to support the major; and 4) 24 hours of dissertation.

Doctoral Dissertation

The doctoral dissertation is designed to provide students with a significant research experience and is considered a contribution to the research and the literature in the field. It is anticipated that students will complete credits for the dissertation after the completion of all coursework and the comprehensive examination. The student will work closely with the doctoral program chair and committee in developing a dissertation proposal and conducting the dissertation research. The doctoral dissertation committee will consist of a minimum of five faculty members, one of whom must be from outside the department.

Advising

All doctoral students will be advised by a major professor with whom they will have been aligned as part of the admissions process. In the event a doctoral student is granted admission without a research mentor/major professor, they will be assigned an interim advisor upon admission to the Ph.D. program. The advisor will assist the student in the evaluation of previous work, selection of coursework, and research oversight.

Time Limit for Doctoral Study

Students must complete all requirements for the Ph.D. degree within seven calendar years from the time they are officially admitted to a program of study.

Sport Pedagogy

The Doctor of Philosophy (Ph.D.) degree in human performance with a specialization in sport pedagogy has been designed to provide students with the coursework, laboratory, and practical experiences to become a leading educator and researcher.

Residency Requirement

A minimum of two academic years of graduate study beyond the master's degree is required for completion of the Ph.D. program in the College of Education. At least one year of doctoral study must be spent...
in continuous residence as a full-time student (see also Alternative Residency Options on the departmental website).

Admission to the Ph.D. Program
To be considered for regular admission to the Ph.D. program, a student must satisfy the following criteria: 1) a master's degree from an accredited institution and 2) a 3.0 grade point average for the last 60 semester hours (4.0 scale); and 3) Applications are accepted year round.

Sequence of Steps through the Ph.D. Program
The sequence of steps for a doctoral student from admission to graduation is:

- Satisfaction of admission requirements
- Formation of doctoral program of study
- Completion of coursework
- Completion of comprehensive exams
- Formation of doctoral dissertation committee
- Proposal of doctoral dissertation
- Admission to candidacy
- Oral examination of the dissertation
- Submission of final copies of the dissertation

The Program
The Ph.D. degree requires a minimum of 72 hours beyond the master’s degree. This program includes:

- 24-hour sport pedagogy core
- 12-hour competency in educational research and statistics
- 12 hours of foundation courses to support the major
- 24 hours of dissertation

Doctoral Dissertation
The doctoral dissertation is designed to provide students with a significant research experience and is considered a contribution to the research and the literature in the field. It is anticipated that students will complete credits for the dissertation after the completion of all coursework and the comprehensive examination. The student will work closely with the doctoral program chair and committee in developing a dissertation proposal and conducting the dissertation research. The doctoral dissertation committee will consist of a minimum of five faculty members, one of whom must be from outside the department.

Advising
All doctoral students will be assigned an interim advisor upon admission to the Ph.D. program. The interim advisor will assist the student in the evaluation of previous work, selection of coursework, and the preliminary work in selecting a program chair and a program advisory committee.

Financial Support
A limited number of graduate assistantships are available each year. These assistantships are awarded on a competitive basis. Graduate assistants may be asked to assist with teaching, research, and/or the outreach mission of the academic unit.

Time Limit for Doctoral Study
Students must complete all requirements for the Ph.D. degree within seven calendar years from the time they are officially admitted to the program.

Department of Music Education (MUE)

General Requirements
Before 12 hours of graduate study are completed in any graduate degree program, students enrolled in music education graduate programs may be required, at the discretion of the department, to demonstrate professional competence in music theory and music history and, if requested, to perform a placement audition on the major instrument. Information about specific examinations can be obtained through the Music Education Office, Box 870366, Tuscaloosa, AL 35487-0366 (205) 348-6054.

Graduate-level music education courses which meet requirements for specific State-approved certification programs (Class A, Class AA) are typically offered during summer sessions. Applicants for music education graduate degrees should anticipate that summer enrollment may be necessary to complete degree requirements. Questions concerning the rotation of course offerings should be directed to the Music Education Department; Box 870366, Tuscaloosa, AL 35487-0366; (205) 348-6054.

The content of all graduate programs in music education is determined, in part, by the background and goals of the individual student. Each program will include graduate courses in music education (choral, instrumental, or general) and professional education, and may include studio courses and other graduate study as indicated by the student's background and interests in consultation with his or her advisor. It is recommended that each student contact his or her advisor during the first term of graduate study in order to plan the program.

Degree requirements are noted on the official Plan of Study for the various degrees and tracks. These documents are available from the chairperson or administrative staff for the department.

Traditional Class A Certification in Music Education (MA in Secondary Education)
Applicants to the traditional Class A program must hold appropriate prior certification in Music Education (Instrumental or Choral) to be considered for admission. An acceptable score on either the GRE or the MAT is required for admission.

Applicants may be required, at the discretion of the department, to demonstrate professional competence in music theory and music history; to submit a tape of an ensemble performance or teaching sample; and, if requested, to perform a placement audition on the major instrument prior to the completion of 12 hours of graduate study. If requested, applicants will interview with the music education faculty prior to an admission decision. Contingent upon faculty and Graduate School approval, conditional admission is granted in some instances.

Two MA plans in Music Education (Plan I and Plan II, below) are offered in the College of Education. Both Plan I and Plan II lead to Alabama Class A (masters level) professional educator certification. Both require compliance with the State-approved certification program and a minimum of 30 graduate semester hours as follows: (a) required music education courses, 6 hours; (b) foundations of professional studies, 6 hours; (c) educational research, 3 hours; (d) technology, 3 hours; (e) faculty-approved teaching field, 12 hours; and, additional requirements/ electives, 9-3 hours. Candidates under Plan I for the master's degree must write a thesis (6 semester hours of thesis research may be used toward the degree). Plan II candidates must earn a minimum of 30 graduate semester hours. No music education master's degree programs are
Applicants must meet the following requirements:

acceptable score on either the GRE or the MAT is required for admission. Specified undergraduate prerequisite courses are also required. An undergraduate degree in an area of music from a school accredited by the National Association of Schools of Music. Applicants must meet the following requirements:

- **Transcript evaluation:** Applicants should contact the Office of Student Services & Certification for a transcript evaluation to determine prerequisite courses and other requirements.

Degree requirement: An appropriate bachelor’s degree from a regionally accredited institution with a minimum overall GPA of 2.75 OR a master’s degree with a GPA of at least 3.0 is required.

Assessment of basic skills: Applicants must meet current basic skills requirements of the Alabama Educator Certification Assessment Program (AECAP). Effective September 1, 2017, passing scores on the Praxis Core Academic Skills for Educators Tests of reading and writing are required (or passing scores on all components of the previously accepted Basic Skills assessment before 9/1/17). Information about the Praxis Core tests is available online at https://www.ets.org/praxis/al/al_teacher_ed or in the Office of Student Services & Certification (104 Carmichael Hall).

Teaching Field: Applicants must have an academic content major (or the equivalent) in the teaching field. The transcript evaluation will determine if an applicant meets the teaching field requirement.

Fingerprinting/background clearance

This course listing applies to candidates having appropriate prior certification who begin this program at UA on June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program below, with no grade below a C.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 530 Mus Ed Curr Theory Dev</td>
<td>3</td>
</tr>
<tr>
<td>Choose ONE from MUE 525 or MUE 526</td>
<td>3</td>
</tr>
</tbody>
</table>

Teaching Field (Contact advisor to select from the following): 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 525 Choral Techn Materials</td>
<td>3</td>
</tr>
<tr>
<td>MUE 526 Instmnl Techn Materls</td>
<td>3</td>
</tr>
<tr>
<td>MUE 535 Curriculum Projects In Mued</td>
<td>3</td>
</tr>
<tr>
<td>MUE 560 Functional Instruments</td>
<td>3</td>
</tr>
<tr>
<td>MUE 590 Seminar In Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUE 598 Non-Thesis Research</td>
<td>3</td>
</tr>
<tr>
<td>MUE 599 Thesis Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Foundations of Professional Studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 500 Foundatn Music Education (preferred)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select ONE course from these SDE approved diversity courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 503 History Of Amer Educn</td>
<td>3</td>
</tr>
<tr>
<td>BEF 507 Sociology Of Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 534 Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 575 Found Educn Through Film</td>
<td>3</td>
</tr>
<tr>
<td>BEF 607 Readings In Soc Of Ed</td>
<td>3</td>
</tr>
<tr>
<td>BEF 650 Critical Race Theory In Educ</td>
<td>3</td>
</tr>
<tr>
<td>BEF 667 Multicult Soc Ed Leadership</td>
<td>3</td>
</tr>
<tr>
<td>BEF 681 Ethics And Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Research:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 540 Intro Research In Mued</td>
<td>3</td>
</tr>
</tbody>
</table>

Technology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT 531 Computer Based Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional requirements:

SPE 500 is required if a special education survey course was not part of the undergraduate program or another graduate program. 0-3

Total Hours 30-33

Alternative Class A Certification in Music Education--Nontraditional, Initial Teacher Certification (MA in Secondary Education)

The Alternative Class A program is designed for those who possess an undergraduate degree in an area of music other than music education from a regionally accredited institution with a minimum overall GPA of 2.75 OR a master’s degree with a GPA of at least 3.0 is required.

- **Transcript evaluation:** Applicants should contact the Office of Student Services & Certification for a transcript evaluation to determine prerequisite courses and other requirements.

Degree requirement: An appropriate bachelor’s degree from a regionally accredited institution with a minimum overall GPA of 2.75 OR a master’s degree with a GPA of at least 3.0 is required.

Assessment of basic skills: Applicants must meet current basic skills requirements of the Alabama Educator Certification Assessment Program (AECAP). Effective September 1, 2017, passing scores on the Praxis Core Academic Skills for Educators Tests of mathematics, reading and writing are required (or passing scores on all components of the previously accepted Basic Skills assessment before 9/1/17). Information about the Praxis Core tests is available online at https://www.ets.org/praxis/al/al_teacher_ed or in the Office of Student Services & Certification (104 Carmichael Hall).

Teaching Field: Applicants must have an academic content major (or the equivalent) in the teaching field. The transcript evaluation will determine if an applicant meets the teaching field requirement.

Fingerprinting/background clearance

This course listing applies to those who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C, and a passing score on a comprehensive exam is required. Successful fulfillment of all requirements leads to a master’s degree and recommendation for the Alabama Class A professional educator certificate in Music Education (P-12).

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 530 Mus Ed Curr Theory Dev</td>
<td>3</td>
</tr>
<tr>
<td>Select ONE from MUE 525 or MUE 526</td>
<td>3</td>
</tr>
</tbody>
</table>

Teaching Field:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 540 Intro Research In Mued</td>
<td>3</td>
</tr>
</tbody>
</table>

Three advisor-approved graduate courses in MUS, MUA, or MUE 9

Professional Studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 500 Foundatn Music Education</td>
<td>3</td>
</tr>
<tr>
<td>BEF 510 Phil Hist Socl Founds Ed</td>
<td>3</td>
</tr>
</tbody>
</table>

Technology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT 531 Computer Based Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Evaluation of Teaching and Learning:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 550 Eval Classroom Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Literacy:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRD 512 Impr Read Second Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

Special Education coursework:

SPE 500 is required unless SPE 300 was previously completed. 0-3

Full-time Internship:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 597 Practicum Music Educatn</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 39-42

Class AA Certification in Music Education (EDS in Secondary Education)

Applicants to the EdS program must hold valid Alabama Class A certification in Music Education or an approved equivalent certification to be considered for admission. An acceptable score on either the Graduate Record Examination or the Miller Analogies Test is required.

Additionally, applicants must successfully complete a formal screening interview with the music education faculty prior to an admission decision. Applicants are required to demonstrate professional competence in music theory and music history; to submit a tape of an ensemble
performance or teaching sample; and, if requested, to perform a placement audition on the major instrument prior to the completion of 12 hours of graduate study. It is highly recommended that applicants have a minimum of three years’ full-time contractual teaching experience prior to beginning a post-masters degree program. Contingent upon faculty and Graduate School approval, conditional admission is granted in some instances.

A minimum of 30 hours of appropriate work beyond the MA degree, including completion of a research project, is required for the educational specialist (EdS) degree. The total hours of graduate work, including the MA degree, must be 60 hours. Those pursuing certification options must be certain their programs of study meet all certification requirements according to programs approved by the Alabama Department of Education. Courses used to qualify for a lower level supporting certificate cannot be used again in a higher level certification program. The fulfillment of these requirements leads to the Alabama Class AA professional educator certificate in Music Education (P-12).

This course listing applies to candidates having appropriate prior certification who begin this program at UA on June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.50 on all courses in the program below, with no grade below a C.

### Required Courses (See advisor to select from the following):

- MUE 630 Mu Ed Curric Theory Dv *
- MUE 635 Curriculum Projects Mued
- MUE 698 Non-Dissertatn Research
- MUE 525 Choral Techn Materials
- MUE 526 Instrml Techn Materls

If the above courses were part of the Class A certificate, approved MUE electives may be utilized.

### Teaching Field (See advisor to select from the following):

- MUE 525 Choral Techn Materials
- MUE 526 Instrml Techn Materls
- MUE 560 Functional Instruments
- MUE 631 Doctor of Philosophy Diagnostic/Admission Exam
- MUE 635 Curriculum Projects Mued
- MUE 690 Advanced Seminar Music Educati

### Foundations of Professional Studies:

- MUE 500 Foundatn Music Education

Select ONE of these SDE approved diversity courses:

- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicult Soc Ed Leadership
- BEF 681 Ethics And Education

### Educational Research:

- MUE 540 (If BER 500 was part of the Class A program, select a music education elective instead of MUE 540.)

### Additional requirements:

- SPE 500 is required if a special education survey course was not part of the undergraduate program or another graduate program.

Total Hours: 30-33

* If MUE 530 Mus Ed Curr Theory Dev is part of Class A certificate, select MUE 635.

### EdD and PhD in Secondary Education (Music Education option)

An acceptable score on either the Graduate Record Examination or the Miller Analogies Test is required. Applicants should have either a bachelor’s or master’s degree in music education. Additionally, applicants must submit a writing sample and successfully complete a formal screening interview with the music education faculty prior to an admission decision. Applicants are required to demonstrate professional competence in music theory and music history; to submit a tape of an ensemble performance or teaching sample; and, if requested, to perform a placement audition on the major instrument prior to the completion of 12 hours of graduate study. It is highly recommended that applicants have a minimum of three years’ full-time contractual teaching experience prior to beginning a post-masters degree program. Contingent upon faculty and Graduate School approval, conditional admission is granted in some instances.

The doctoral degrees (EdD and PhD) in secondary education (music education option) are designed to include a broad field of study in a major area of specialization. Selection and sequence of courses are contingent on the skills, background, and professional goals of the student. Each student’s program will include courses in music, music education, professional education, and research.

All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree.

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination. For details on Plan of Study, Admission to Candidacy, and all other degree requirements, visit the Degree Requirements section of this catalog.

Graduate work in music education is an option through the Curriculum and Instruction Department in the College of Education. Interested applicants should contact Music Education, Box 870366, Tuscaloosa, AL 35487-0366 (205) 348-6054, or speak with a music education adviser.

- MUE500 Foundatn Music Education
  Hours 3

Investigation of the purposes and functions of music education from antiquity to the present. Philosophical foundations and a chronological survey of historical issues related to the inclusion of music in general education will also be discussed.

- MUE525 Choral Techn Materials
  Hours 3

Organization, rehearsal, programming and performance of choral groups.

- MUE526 Instrml Techn Materls
  Hours 3

Organization, rehearsal, programming and performance of instrumental groups.
MUE530 Mus Ed Curr Theory Dev  
Hours 3  
Analysis of music curricula and study of the development process.

MUE532 Research in the History and Aesthetics of Music Education  
Hours 3  
This course will address various techniques into the history and aesthetics of music education.

MUE535 Curriculum Projects In Mued  
Hours 1-3  
The design, proposal, implementation, evaluation, and reporting of a curriculum project or an improved instructional procedure in music. Independent study.

MUE540 Intro Research In Mued  
Hours 3  
Introduction to research study in music education.

MUE560 Functional Instruments  
Hours 0.5,1  
No description available

MUE580 Introduction to Graduate Studies in Music Education  
Hours 3  
Introduction designed to prepare student for the application of scholarly thinking to topics in the areas of music psychology, teacher training, and music education.

MUE586 Marching Band Techniques  
Hours 3  
Fundamentals of marching, maneuvering, and preparation and presentation of formations. Prerequisite: Graduate Standing.  
Prerequisite(s): Graduate Standing

MUE589 Clinical Experiences in Music Education  
Hours 2-6  
Part-time supervised teaching experience in secondary instrumental music education. Four-twelve hours weekly for 14 weeks in Tuscaloosa area public schools.

MUE590 Seminar In Music Education  
Hours 1-3  
Study of special topics in music education.

MUE591 Workshop In Music Education  
Hours 1-3  
Provide students with professional development opportunities in the field of music education through attendance at regional and national conferences, especially through the AMEA Annual Conference. Attendance at sessions including workshops on topics affecting all aspects of teaching, especially as they relate to music educators. Prerequisite: Graduate standing.  
Prerequisite(s): Graduate standing

MUE597 Practicum Music Educatn  
Hours 3-12  
No description available

MUE598 Non-Thesis Research  
Hours 1-3  
No description available

MUE599 Thesis Research  
Hours 1-6  
No description available

MUE600 Foundations of Music Education  
Hours 3  
The purposes of this course are (a) to introduce ideas, people, and events that inform the history and philosophy of Western music education, particularly in the North American context, and (b) to acquaint students with tools of philosophical and historical inquiry appropriate for their ongoing engagement with music education as reflective practitioners and as graduate student researchers.

MUE625 Choral Techniques and Materials  
Hours 3  
This course is an overview of resources for college level students of choral teaching and conducting. It includes such topics as philosophy, learning theory, human behavior, and history as it investigates the various roles of the choral conductor. It also reviews such issues as the relationship between conductor and vocalist, mechanics of singing, and rehearsal strategies informed by the findings of past choral scholars and some of the most recent and salient research in choral singing. It is designed as a graduate level survey course for those interested in expanding their knowledge base in various choral methods techniques, within the context of both historical and divergent contemporary choral rehearsal and performance practices.

MUE626 Instrumental Tech & Materials  
Hours 3  
Advanced organization, rehearsal, programming and performance of instrumental groups.

MUE630 Mu Ed Curric Theory Dv  
Hours 3  
Advanced analysis of music curricula and study of the development process.

MUE631 Doctor of Philosophy Diagnostic/Admission Exam  
Hours 0  
Examination required prior to completion of no more than six hours of study for admission to a Ph.D. program in music education.

MUE635 Curriculum Projects Mued  
Hours 1-3  
The design, proposal, implementation, evaluation, and reporting of a curriculum project or an improved instructional procedure in music. Independent study.

MUE641 Adv Research Music Educ  
Hours 3  
The design, implementation and reporting of research studies that illustrate a variety of methodological and statistical plans for research in music education.  
Prerequisite(s): MUE 540
MUE690 Advanced Seminar Music Education
Hours 1-3
No description available

MUE698 Non-Dissertation Research
Hours 1-3
No description available

MUE699 Dissertation Research
Hours 1-12
No description available

Faculty
Department Head and Associate Professor
Marvin E. Latimer

Professor
Carl Hancock

Associate Professor
Kenneth M. McGuire

Instructor
Anne Witt

Department of Special Education and Multiple Abilities (SPE, MAP)

- Majors
  - Special Education, MA (p. 459)
  - Special Education, EdS (p. 457)
  - Special Education, EdD (p. 457)
  - Special Education, PhD (p. 463)

SPE500 Intro Exc Childr/Youth
Hours 3
Introduction to programs and problems of children and youth who deviate from the norm in physical, mental, emotional, and social characteristics.

SPE501 Diagnosis and Assessment of Exceptional Children and Youth
Hours 3
Comprehensive study of diagnosis and assessment, emphasizing concepts of tests and measurements, formal and informal assessment, test administration, and use of diagnostic results in educational intervention.

SPE502 Adv Behav Mgt Spec Educ
Hours 3
Concepts and principles of behavior change and management; practical experience in developing plans to prevent and remedy behavior problems. Research project required.

SPE503 Masters Seminar In Spe
Hours 3
Critique of research and research problems in current special education issues.

SPE504 Introduction to Assistive Technology
Hours 3
This is an introductory course for teacher educators in the fundamentals of assistive technology identification, consideration, and implementation.

SPE505 Professionalism
Hours 2
No description available

SPE506 Working W/Families
Hours 3
Examination of the effects of an exceptional child on the family, and the various approaches to intervention with the family.

SPE509 The Learner
Hours 2
No description available

SPE514 Teach Consult Model Spe
Hours 3
Introduction to various direct and indirect service delivery models for students with mild disabilities; consultant techniques demonstrated.

SPE516 Communication & Collaboration
Hours 1
No description available

SPE517 Facilitating Learning
Hours 1
No description available

SPE518 Field Experience
Hours 6
No description available

SPE527 Professionalism
Hours 2
No description available

SPE528 The Learner
Hours 2
No description available

SPE530 Communication & Collaboration
Hours 2
No description available

SPE534 Facilitating Learning
Hours 2
No description available
SPE535 Field Experience
Hours 3
No description available

SPE538 Research Seminar
Hours 1
No description available

SPE550 Professionalism
Hours 2
No description available

SPE554 The Learner
Hours 2
No description available

SPE556 Communication & Collaboration
Hours 2
No description available

SPE557 Facilitating Learning
Hours 2
No description available

SPE558 Field Experience
Hours 3
No description available

SPE559 Field Experience
Hours 3
No description available

SPE560 Research Seminar
Hours 1
No description available

SPE571 Educ Yng Child W/Disablt
Hours 3
An introductory course to the field of early childhood special education, including rationale, legal issues, and characteristics of children from birth through kindergarten.

SPE575 Practicum in Early Childhood Special Education (0-8 years)
Hours 0-6
Involves a demonstration of teaching expertise of candidate with students identified with severe/profound and/or multiple disabilities in special and general education classrooms.

SPE576 Assessment Young Childrn
Hours 3
Selection, administration, and interpretation of assessments of young children (birth through kindergarten).

SPE578 Meth Tch Yng Child W/Dis
Hours 3
Use of curricula, materials, and management techniques for young children (birth through kindergarten) with disabilities.

SPE579 Intern Ed Yg Child Div Abil
Hours 3-6
Fourteen week split internship providing supervised teaching experience in classrooms for young children. Offered spring and fall only. Application for internship must be made the semester prior to internship (excluding summer term) through Office of Educational Field Experience.

SPE581 Psy Gift Tal Child Yth
Hours 3
Examination of the nature of youth with high potential in multiple areas. Contemporary theory, research, and the relationship between definition/identification and educational planning are considered.

SPE582 Teach Gifted And Taltd
Hours 3
Use and evaluation of teaching-learning methods for education of the gifted and talented, including consideration of roles, expectations for learning, and organizational procedures.

SPE583 Creative Prob Solving
Hours 3
A guided sequence of exercises and experiences leading to increased personal creative behavior, with emphasis on methods for nurturing creative talent in students of all ages.

SPE584 Spec Populatn Gift Educ
Hours 3
Examination of a variety of administrative designs, curriculum options, instructional models, and strategies to meet the unique cognitive and affective needs/abilities of special populations of gifted students.

SPE585 Teaching Thinking Skills
Hours 3
Survey of existing thinking-skills programs and techniques for creating new programs for thinking. Emphasis is on integrating thinking skills into gifted education and regular education.

SPE586 Socl Emotl Compnts Talent Dev
Hours 3
This course will explore current research, psychological theory and practical counseling techniques relevant to the social and emotional components of giftedness. Some topics include perfectionism, gender issues, underachievement, and special populations.

SPE587 Indiv Needs Talents Classroom
Hours 3
This course will outline instructional and managerial techniques that can be used in the grade level or heterogeneous classroom to address the individual learning needs, strengths, styles, and preferences of all students.

SPE589 Internship Gift/Talent
Hours 3-9
Intensive, supervised teaching experience in programs for gifted and talented.
SPE590 Intro Mild Disabilities
Hours 3
An intensive study of the background and current perspective on mild disabilities. Emphasis on developing professional knowledge base.

SPE591 Adv Academic Methods Elem
Hours 3
Designed to develop skills in the use of curriculum, materials, and strategies for students with disabilities at the elementary school level.

SPE592 Adv Academic Methods Sec
Hours 3
Designed to develop skills in the use of curriculum, materials, and strategies for students with disabilities at the secondary level.

SPE593 Intro Severe/Profound Disabili
Hours 3
An intensive study of the background and current perspective on severe disabilities. Emphasis is on developing professional knowledge.

SPE594 Methods Severe Disability
Hours 3
Emphasizes educational programming, subject matter, professional responsibilities of teachers and related service personnel, curriculum development, communication, and physical management and handling procedures of individuals with severe disabilities.

SPE595 Practicum in Severe Disabilities Education (K-12 grades)
Hours 0-6
Involves a demonstration of teaching expertise of candidate with students identified with severe/profound and/or multiple disabilities in special and general education classrooms.

SPE596 Practicum in Collaborative (K-6 or 6-12 grades)
Hours 0-6
Involves a demonstration of teaching expertise of candidate with students identified with severe/profound and/or multiple disabilities in special and general education classrooms.

SPE597 Transition In Special Ed
Hours 3
Focuses on the strategies, methods, curriculum, and measurement for facilitating an effective transition from school to adulthood of adolescents with disabilities.

SPE598 Internship In Special Ed
Hours 3-9
Intensive, supervised teaching experience in a special education program.

SPE600 Doctoral Seminar Spe
Hours 3
Required for all first-year doctoral students; diagnostic in function. Activities include examination of career goals and assessment of skills in written and oral presentations. Offered fall semester.

SPE601 Sem Col Teachg In Spe
Hours 3
Course structure, lecturing and other delivery techniques, student evaluation, and practicum supervision are included among topics that are reviewed to develop skills in college training. Offered fall semester.

SPE602 Seminar Research Spe
Hours 3
Focuses on the unique aspects of the exceptional population in relationship to typical statistical and research design procedures. Offered spring semester.

SPE606 Topical Seminar In Spe
Hours 3-6
May be repeated for credit. Selected topics, review and critique of current literature, research problems, and methodology.

SPE609 Practicum In Spe
Hours 3-6
Designed for advanced graduate students. Students practice effective supervision skills or college teaching skills under the direction of the course instructor.

SPE611 Ind Study In Spe
Hours 1-6
Intensive investigation of a specific aspect of special education, by one student under the supervision of a faculty member in the student's area of concentration.

SPE612 Readg Research In Spe
Hours 1-6
For doctoral students, an opportunity to initiate, develop, and successfully defend a dissertation topic dealing with a problem of magnitude in the field of special education.

SPE613 Consult Proc Spe Progs
Hours 3
Training in human-relations techniques and administrative strategies designed to facilitate communication and interaction with individuals and groups in special education programming.

SPE614 Assmt Tch Lrn In Spe
Hours 3
Strategies for curricular designs, teaching methods, and program models using informal and observational techniques to assess teaching effectiveness and learner outcomes (academic and behavioral) in special education programs.

SPE616 Advanced Professional Development
Hours 3
Theories and types of training and development programs will be reviewed and analyzed, needs assessments will be explored and conducted, and professional development sessions will be developed, facilitated, and evaluated.

SPE617 Special Education Leadership, Policy and Law
Hours 3
This course is designed to instruct the ethical, legal, and leadership principles that govern the field of special education. It includes emphasis on preparing for administrative positions in special education programs in local education agencies.

SPE621 Issues in Special Education: Early Childhood
Hours 3
Discussion of current research and investigation of major issues in the education of young students with disabilities, focusing on best practices, assessment and learning, programming, evaluation, community involvement, and facilitation.
SPE622 Advanced Curriculum Workshop: Early Childhood Special Education  
Hours 3  
This course assists leaders in early childhood special education in applying studies in basic disciplines to the development and implementation of appropriate curriculum for young students with disabilities. It includes emphasis on application of diverse teaching models and the use of a variety of program alternatives and skills in designing, managing, and evaluating program alternatives.

SPE623 Issues in Collaborative Education  
Hours 3  
Discussion of current research and investigation of major issues in the education of students with disabilities, focusing on best practices, assessment and learning, programming, evaluation, community involvement, and facilitation.

SPE624 Advanced Curriculum Workshop in Special Education: Collaborative  
Hours 3  
This course assists leaders in collaborative education in basic disciplines to the development and implementation of appropriate curriculum for students with disabilities. It includes emphasis on application of diverse teaching models and the use of a variety of program alternatives and skills in designing, managing, and evaluating program alternatives.

SPE681 Issues In Gifted Educ  
Hours 3  
No description available

SPE682 Adv Curr Workshop Gift Educatio  
Hours 3-6  
No description available

SPE699 Dissertation Research  
Hours 1-12  
No description available

Faculty  
Department Head and Professor  
Robert A. McWilliam

Assistant Department Head  
John Myrick

Professors  
Carol A. Donovan
Kristine Jolivette
N. Kagendo Mutua

Associate professors  
Jennifer Jolley
Sara McDaniel
Jane Lumpkin Newman
Sandra Cooley Nichols
Nicole Cain Swoszowski

Assistant professors  
Ragan McLeod
Laci Watkins

Clinical professor  
Kathy Shaver Wetzel

Clinical assistant professors  
Ashley Cawley
John Myrick

Clinical instructors  
Lisa Burgess
Sharron Maughn
Catherine Price

Special Education, Ed.D.  
The doctor of education (EdD) degree program is offered to provide competencies in professional development, administration, and leadership. In preparing for any of these three professional activities, EdD students usually specialize in one of the fields within special education; they are also expected, however, to acquire broad-based information across the spectrum of exceptional children and youth.

Prerequisites for admission to doctoral work in special education are an earned MA degree in special education (or a related area) and three years of appropriate experience, defined as three years of work in agencies serving children and youth, one year of which must have been spent in direct, full-time interaction with exceptional children. Graduate faculty members individually evaluate and collectively discuss admission applications.

Special Education, Ed.S.  
Special education graduate programs are designed to help establish, maintain, and improve educational services to exceptional children by providing exemplary personnel resources. Courses of study leading to the Educational Specialist (EdS) degree and Class AA professional educator certification in the education of exceptional children are offered.

Traditional Class AA programs are available in  
- collaborative education  
- early childhood special education  
- gifted and talented

Admission  
In addition to meeting the Graduate School's admission requirements, a student interested in the EDS program must have earned a master's degree with appropriate prerequisite Class A certification.

In addition to meeting admission requirements for the Graduate School and the College of Education, students interested in the special education programs should also be aware of the admission requirements established by the Alabama Department of Education.

Collaborative (K-6, 6-12), Class AA  
This course listing applies to candidates having appropriate prior certification who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.50 on all courses in the...
program, with no grade below a C. Credits used for the previous Class A support certificate may not be used for this program.

For admission, applicants must hold valid master’s level certification in a teaching field. Candidates admitted to the Class AA program without prior Class A certification in collaborative or an approved area of special education must take the following courses in addition to the coursework below: SPE 590, SPE 591 or SPE 592, SPE 594, SPE 501 (or the equivalent), and SPE 596. Up to three semester hours of the prerequisite work may be used to meet the elective requirements in this program. Passing scores on the appropriate Praxis subject assessment(s) are required if changing areas of certification.
Admission Requirements

In addition to meeting admission requirements for the Graduate School and the College of Education, students interested in the special education programs should also be aware of the admission requirements established by the Alabama Department of Education.

Traditional Class A Certification Programs

For admission to traditional Class A programs of study in collaborative education, early childhood special education, or gifted and talented education, the appropriate prior certification must be held in a teaching field.

For admission to the Class A program of study in severe disabilities, the appropriate prior certification must be held in early childhood special education or collaborative education.

Collaborative (K-6), Class A

This course listing applies to candidates having appropriate prior certification who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C. Passing scores on the appropriate Praxis subject assessment(s) are required if changing areas of certification.

For admission, applicants must hold valid bachelor's level certification in a teaching field.

Curriculum and Teaching:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SPE 502</td>
<td>Adv Behav Mgt Spec Educt</td>
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<td>SPE 503</td>
<td>Masters Seminar In Spe</td>
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<td>SPE 514</td>
<td>Teach Consult Model Spe</td>
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Foundations of Professional Studies:

(Choose ONE of these SDE approved diversity courses.) 3

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BEF 503</td>
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<td>BEF 507</td>
<td>Sociology Of Education</td>
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<tr>
<td>BEF 534</td>
<td>Multicultural Education</td>
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<tr>
<td>BEF 575</td>
<td>Found Educn Through Film</td>
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<tr>
<td>BEF 607</td>
<td>Readings In Soc Of Ed</td>
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<tr>
<td>BEF 650</td>
<td>Critical Race Theory In Educ</td>
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<tr>
<td>BEF 667</td>
<td>Multicult Soc Ed Leadership</td>
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<tr>
<td>BEF 681</td>
<td>Ethics And Education</td>
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Educational Research:

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<tbody>
<tr>
<td>SPE 501</td>
<td>Diag Assess Except Child Youth</td>
<td>3</td>
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Technology:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CAT 531</td>
<td>Computer Based Instruction</td>
<td>3</td>
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Teaching Field:

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<tbody>
<tr>
<td>SPE 591</td>
<td>Adv Academc Methods Elem</td>
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<tr>
<td>SPE 594</td>
<td>Methods Severe Disability</td>
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Choose ONE of the following: 3

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SPE 583</td>
<td>Creative Prob Solving</td>
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</tr>
<tr>
<td>CRD 510</td>
<td>Expanding Reading</td>
<td></td>
</tr>
<tr>
<td>CRD 511</td>
<td>Beginning Reading</td>
<td></td>
</tr>
<tr>
<td>CEE 580</td>
<td>Concepts Elem School Math</td>
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<tr>
<td>CEE 581</td>
<td>Math Curriculum Design</td>
<td></td>
</tr>
<tr>
<td>CEE 596</td>
<td>Advanced Practicum</td>
<td>3</td>
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</tbody>
</table>
Additional requirements:
SPE 590 Intro Mild Disabilities 3
SPE 593 Intro Severe/Profound Disabilities 3
SPE 500 is required if a special education survey course (or the following MAP courses: 311, 312, 413, and 414) was not completed as part of the undergraduate program or another graduate program.

Total Hours 36-39

Collaborative (6-12), Class A
This course listing applies to candidates having appropriate prior certification who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C. Passing scores on the appropriate Praxis subject assessment(s) are required if changing areas of certification.

For admission, applicants must hold valid bachelor's level certification in a teaching field.

Curriculum and Teaching:
SPE 502 Adv Behav Mgt Spec Educt 3
SPE 503 Masters Seminar In Spe 3
SPE 514 Teach Consult Model Spe 3

Foundations of Professional Studies:
(Choose ONE of these SDE approved diversity courses.) 3
BEF 503 History Of Amer Educn
BEF 507 Sociology Of Education
BEF 534 Multicultural Education
BEF 575 Found Educn Through Film
BEF 607 Readings In Soc Of Ed
BEF 650 Critical Race Theory In Educ
BEF 667 Multicult Soc Ed Leadership
BEF 681 Ethics And Education

Educational Research:
SPE 501 Diag Assess Except Child Youth 3

Technology:
CAT 531 Computer Based Instruction 3

Teaching Field:
SPE 592 Adv Academic Methods Sec 3
SPE 594 Methods Severe Disability 3
SPE 597 Transition In Special Ed 3
SPE 596 Collaborative Practicum 3

Additional requirements/electives:
SPE 590 Intro Mild Disabilities 3
SPE 593 Intro Severe/Profound Disabilities 3
SPE 500 is required if a special education survey course (or the following MAP courses: 311, 312, 413, and 414) was not completed as part of the undergraduate program or another graduate program.

Total Hours 36-39

Early Childhood Special Education (P-3), Class A
This course listing applies to candidates having appropriate prior certification who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C. Passing scores on the appropriate Praxis subject assessment(s) are required if changing areas of certification.

For admission, applicants must hold valid bachelor's level certification in a teaching field.

Required courses:
SPE 571 Educ Yng Child W/Disablt 3
HD 501 Child Development 3

Foundations of Professional Studies:
(Choose ONE of these SDE approved diversity courses.) 3
BEF 503 History Of Amer Educn
BEF 507 Sociology Of Education
BEF 534 Multicultural Education
BEF 575 Found Educn Through Film
BEF 607 Readings In Soc Of Ed
BEF 650 Critical Race Theory In Educ
BEF 667 Multicult Soc Ed Leadership
BEF 681 Ethics And Education

Educational Research:
SPE 576 Assessment Young Childn 3
BER 550 is also required if an evaluation and learning course was not part of the undergraduate program or another graduate program.

Technology:
CAT 531 Computer Based Instruction 3

Teaching Field:
SPE 502 Adv Behav Mgt Spec Educt 3
SPE 578 Meth Tch Yng Child W/Dis 3
SPE 575 ECSE Practicum 6

Additional requirements/electives:
(Choose ONE of the following or another advisor approved elective.) 3
CAT 532 Curric Emerg Instruct Technol
CRD 511 Beginning Reading
CEE 580 Concepts Elem School Math
CEE 581 Math Curriculum Design
SPE 500 is required if a special education survey course was not completed as part of the undergraduate program or another graduate program.

Total Hours 30-36

Gifted (P-12), Class A
This course listing applies to candidates having appropriate prior certification who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C. Passing scores on the appropriate Praxis subject assessment(s) are required.

For admission, applicants must hold valid bachelor's level certification in a teaching field.
Required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SPE 582</td>
<td>Teach Gifted And Taltd</td>
<td>3</td>
</tr>
<tr>
<td>SPE 583</td>
<td>Creative Prob Solving</td>
<td>3</td>
</tr>
</tbody>
</table>

Foundations of Professional Studies:

(Choose ONE of these SDE approved diversity courses.)

- BEF 503 History Of Amer Educn
- BEF 507 Sociology Of Education
- BEF 534 Multicultural Education
- BEF 575 Found Educn Through Film
- BEF 607 Readings In Soc Of Ed
- BEF 650 Critical Race Theory In Educ
- BEF 667 Multicul Soc Ed Leadership
- BEF 681 Ethics And Education

Educational Research:

BER 500 Intro Educatn Research 3

SPE 501 is also required if an assessment/evaluation course was not part of the undergraduate program or another graduate program.

Teaching Field:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SPE 581</td>
<td>Psy Gift Tal Chld Yth</td>
<td>3</td>
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<tr>
<td>SPE 584</td>
<td>Spec Populatn Gift Educ*</td>
<td>3</td>
</tr>
<tr>
<td>SPE 585</td>
<td>Teaching Thinking Skills</td>
<td>3</td>
</tr>
<tr>
<td>SPE 589 (S.E.W.) **</td>
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<td>3</td>
</tr>
</tbody>
</table>

Additional requirements/electives:

Advisor approved elective in content or special interest area (counseling, geography, space science workshop, children’s literature, etc.) 3

SPE 500 is required if a special education survey course was not completed as part of the undergraduate program or another graduate program.

Total Hours 30-36

* SDE approved diversity course

** Two 3-hour internships are required, one of which must be S.E.W.

Severe Disabilities, Class A

This course listing applies to candidates having appropriate prior certification who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

For admission, applicants must hold valid bachelor’s level certification in an appropriate area of special education.

Required courses:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SPE 593</td>
<td>Intro Severe/Profound Disabili</td>
<td>3</td>
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</table>

Foundations of Professional Studies:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SPE 506</td>
<td>Working W/Families</td>
<td>3</td>
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Educational Research:

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SPE 501</td>
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Technology:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CAT 531</td>
<td>Computer Based Instruction</td>
<td>3</td>
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Teaching Field:

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<tbody>
<tr>
<td>SPE 502</td>
<td>Adv Behav Mgt Spec Educt*</td>
<td>3</td>
</tr>
<tr>
<td>SPE 514</td>
<td>Teach Consult Model Spe</td>
<td>3</td>
</tr>
<tr>
<td>SPE 594</td>
<td>Methods Severe Disability</td>
<td>3</td>
</tr>
<tr>
<td>SPE 597</td>
<td>Transition In Special Ed</td>
<td>3</td>
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</table>

Additional requirements:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SPE 595</td>
<td>Severe Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional courses from advisor approved cognate (Early, Autism, Assist Tech, Transition) 6

SPE 500 is required if a special education survey course was not part of the undergraduate program or another graduate program.

Total Hours 33-36

* SDE approved diversity course

Alternative Class A, Nontraditional, Initial Teacher Certification Programs

Special Education & Multiple Abilities offers teacher education programs that do not require prior certification in a teaching field. These programs lead to Alabama Alternative Class A certification in special education (collaborative teacher, K–6; collaborative teacher, 6–12; early childhood special education, P-3; or gifted, P-12) and are designed to allow individuals with undergraduate degrees in nonteaching fields to enter the field of education.

Admission to a nontraditional, alternative certification program in special education requires full admission to the Graduate School and the completion of specified undergraduate prerequisite courses.

For admission to the Alternative Class A (non-traditional) program in collaborative education, early childhood special education, or gifted and talented education, applicants must meet the following requirements:

- **Transcript evaluation:** Applicants should contact the Office of Student Services & Certification for a transcript evaluation to determine prerequisite courses.
- **Degree requirement:** An appropriate bachelor’s degree from a regionally accredited institution with a minimum overall GPA of 2.75 OR a master’s degree with a GPA of at least 3.0 is required.
- **Assessment of basic skills:** Applicants must meet current basic skills requirements of the Alabama Educator Certification Assessment Program (AECAP). Effective September 1, 2017, passing scores on the Praxis Core Academic Skills for Educators Tests of mathematics, reading and writing are required (or passing scores on all components of the previously accepted Basic Skills assessment before 9/1/17). Information about the Praxis Core tests is available online at https://www.ets.org/praxis/al/al_teacher_ed or in the Office of Student Services & Certification (104 Carmichael Hall).
- **General Studies and Teaching Field:** For Alternative Class A in Collaborative or Early Childhood Special Education, applicants must have completed 12 hours of coursework in each of four areas: humanities, social science, science and mathematics. (This is called the 4 x 12 requirement.) Applicants who do not meet the 4 x 12 requirement have the option to earn a passing score on the appropriate Praxis subject assessment in lieu of completing the deficient 4 x 12 courses. For Alternative Class A in Gifted, applicants must have an academic major in a discipline that is approved in the Alabama Course of Study.
- **Fingerprinting/background clearance**
Collaborative (K-6), Alternative Class A

This course listing applies to candidates who have completed a baccalaureate degree at a regionally accredited college or university and who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

<table>
<thead>
<tr>
<th>Curriculum and Teaching:</th>
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<tbody>
<tr>
<td>SPE 502</td>
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<tr>
<td>SPE 503</td>
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<td>SPE 514</td>
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<tr>
<th>Foundations of Professional Studies:</th>
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<tbody>
<tr>
<td>BEF 510</td>
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<table>
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<tr>
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<table>
<thead>
<tr>
<th>Evaluation of Teaching and Learning:</th>
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<tbody>
<tr>
<td>SPE 501 or BER 550</td>
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<table>
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<th>Literacy:</th>
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<tr>
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<td>SPE 590</td>
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<td>SPE 591</td>
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<td>SPE 593</td>
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<td>SPE 594</td>
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<td>Choose ONE of the following:</td>
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<tr>
<td>CEE 580</td>
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<tbody>
<tr>
<td>SPE 500 is required unless SPE 300 (or the equivalent) was completed as part of the undergraduate program within the last 5 years.</td>
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</table>

** Total Hours 42-48**

* SDE approved diversity course
** Students seeking K-12 certification must register for 3 hours of elementary internship and 3 hours of secondary internship.

Collaborative (6-12), Alternative Class A

This course listing applies to candidates who have completed a baccalaureate degree at a regionally accredited college or university and who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

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<tr>
<th>Curriculum and Teaching:</th>
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<tbody>
<tr>
<td>SPE 502</td>
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<td>SPE 514</td>
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<td>SPE 506</td>
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<td>SPE 578</td>
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<tr>
<td>HD 501</td>
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</table>
HD 602  Adv Infant Development  3
SPE 579 Intern Ed Yg Child Div Abil **  6

**Special Education Coursework:**
SPE 500 is required unless SPE 300 was completed in the undergraduate program within the last 5 years. 0-3

**Additional requirements/electives (Choose ONE of the following):**
CEE 580 Concepts Elem School Math  3
CEE 581 Math Curriculum Design  3

Total Hours  39-42

* SDE approved diversity course

** The internship will include a placement with at least two of the following age groups: birth-age 3, age 3-5, and age 5-8. Placements will be in appropriate settings which include children with and without identified disabilities.

**Gifted (P-12), Alternative Class A**
This course listing applies to candidates who have completed a baccalaureate degree at a regionally accredited college or university and who begin this program June 1, 2017. Candidates earning graduate credit prior to this date may elect to utilize this program. Candidates must present a GPA of at least 3.25 on all courses in the program, with no grade below a C.

**Curriculum and Teaching:**
SPE 583 Creative Prob Solving  3

**Professional Studies:**
BEF 510 Phil Hist Scl Founds Ed *  3

**Technology:**
CAT 531 Computer Based Instruction  3

**Evaluation of Teaching and Learning:**
BER 550 Eval Classroom Learning  3
SPE 501 Diag Assess Except Child Youth  3

**Literacy:**
CRD 512 Improv Reading Second Schools  3

**Teaching Field:**
SPE 581 Psy Gift Tal Chld Yth  3
SPE 582 Teach Gifted And Taltd  3
SPE 584 Spec Populatn Gift Educ *  3
SPE 585 Teaching Thinking Skills  3
SPE 586 Socl Emotl Compnts Talent Dev  3
SPE 587 Indiv Needs Talents Classroom  3

**Internships (Two 3-hour internships are required).**
SPE 589 (S.E.W.)  3
SPE 589 Internship Gift/Talent  3

**Special Education Coursework:**
SPE 500 is required unless SPE 300 (or the equivalent) was completed in the undergraduate program within the last 5 years. 0-3

Total Hours  42-45

* SDE approved diversity course

** Two 3-hour internships are required, one of which must be S.E.W.

**Certification**
The Alabama State Board of Education grants Class A professional educator certification in special education (collaborative, K-6; collaborative, 6-12; early childhood special education, P-3; gifted, P-12; or severe disabilities, P-12). To be eligible, candidates must hold appropriate prerequisite certification OR complete an Alternative Class A program and must complete all requirements for the MA degree in the chosen program as described in this catalog, including a comprehensive exam, state assessments (if applicable), and the Praxis subject assessment(s).

**Special Education, Ph.D.**
The doctor of philosophy (PhD) program is designed to prepare scholars for roles as university professors or researchers.

Prerequisites for admission to doctoral work in special education are an earned MA degree in special education (or a related area) and three years of appropriate experience, defined as three years of work in agencies serving children and youth, one year of which must have been spent in direct, full-time interaction with exceptional children. Graduate faculty members individually evaluate and collectively discuss admission applications.

**College of Engineering**
Department of Aerospace Engineering and Mechanics (AEM) (p. 466)
Department of Chemical and Biological Engineering (CHBE) (p. 479)
Department of Civil, Construction and Environmental Engineering (CCEE) (p. 487)
Department of Computer Science (CS) (p. 502)
Department of Electrical and Computer Engineering (ECE) (p. 513)
Department of Mechanical Engineering (ME) (p. 522)
Department of Metallurgical and Materials Engineering (MTE) (p. 532)

**Graduate Degrees**
The College of Engineering offers the following graduate degrees:

Master of Science in aerospace engineering, chemical engineering, civil engineering, computer science, electrical engineering, engineering (environmental engineering), engineering science and mechanics, mechanical engineering, and metallurgical engineering

Doctor of Philosophy in the fields of aerospace engineering and mechanics, chemical engineering, civil engineering, computer science, electrical engineering, mechanical engineering and materials/metalurgical engineering (the PhD in materials/metalurgical engineering is offered jointly with The University of Alabama at Birmingham)

**Joint interdisciplinary PhD program in Materials Science**
A PhD degree in the field of materials science is also offered, in collaboration with The University of Alabama at Birmingham and The University of Alabama in Huntsville. Full details of the program and its admission requirements may be found in the Interdisciplinary Programs (p. 28) section of the Graduate School Catalog.

Requirements for the Graduate School (Admission Criteria (p. 11) and Degree Requirements (p. 20)) and the College of Engineering (General Admission (p. 11), MS Degree (p. 20), and PhD Degree (p. 23)) are detailed in sections of this catalog. Additional requirements are outlined in the individual department descriptions in this catalog.
Master of Science Degrees

Master of Science degrees with appropriate designations are conferred on those students who satisfy the requirements of:

- the programs or departments in which they are enrolled,
- the College of Engineering, and
- the Graduate School as outlined earlier in the Degree Requirements (p. 20) section of this catalog.

Any requirements established by the individual departments are outlined in the departmental information that follows.

Master of Science Degree Requirements

Minimum requirements for the master's degree in all programs are 24 semester hours of acceptable coursework under Plan I (plus 6 thesis hours) or 30 hours under Plan II. Specific course requirements (in addition to those established by the Graduate School) are as follows:

- The greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred, subject to the approval of the appropriate faculty and final approval by the Graduate School. Average grade must be at least “B.” The Request for Transfer of Graduate Credit is available at the website of the Graduate School.
- Engineering courses numbered 400 to 499 (offered primarily for senior undergraduates) may be taken by master’s students (not doctoral) for graduate credit with prior approval of the student’s supervisory committee and prior approval of the Graduate School requested on the Approval of 400-Level Course for Master’s Credit form (p. 11). A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree. To receive graduate credit for such courses, a minimum grade of “B” must be made in courses in the student’s major field of study, and a minimum grade of “C” in courses outside the major field. Courses numbered 500 to 599 are offered primarily for master’s students. Courses numbered 600 to 699 are offered primarily for students beyond the master’s level.
- Students will be expected to have received credit for MATH 238 Appld Diff Equations I prior to admission, or to complete the course with a passing grade after admission (no graduate credit will be awarded), unless they are enrolled in the computer science program.
- All courses are selected by the student with the approval of the student’s supervisory committee. If there are deficiencies in undergraduate subjects, the student’s supervisory committee may require additional coursework to correct them.
- Under no circumstances will graduate credit be given for courses numbered below 400.
- Under Plan I, an approved thesis must be completed; a minimum of 6 semester hours of credit in 599 Thesis Research is required for Plan I students, in addition to the 24 hours of coursework.
- Under both Plan I and Plan II, students must pass a final comprehensive examination on the content of the degree program. Information about the comprehensive examination is detailed in the Degree Requirements section of this catalog.

MSE (Environmental Engineering) Degree Requirements

The interdisciplinary master of science in engineering program in environmental engineering is administered by the Department of Civil and Environmental Engineering; inquiries should be directed to the director of the Environmental Engineering Program, Box 870205, Tuscaloosa, AL 35487-0205. The program is open to persons with baccalaureate degrees who have completed at least one year’s work in chemistry, mathematics through differential equations, and an engineering mechanics sequence through fluid mechanics. These prerequisites and others may be satisfied by completing appropriate coursework for non graduate credit.

The versatile MSE (environmental engineering) program uses environmental engineering courses offered by the College of Engineering and appropriate courses in biology, chemistry, geology, and microbiology. A list of courses approved for inclusion in the environmental engineering major is available upon request. The flexibility of the degree requirements permits a student to follow a course of study designed to suit individual interests and needs. Degree requirements are as follows:

- For Plan I students, 24 semester hours of approved environmental coursework and a minimum of 6 additional semester hours of credit in CE 599 Thesis Research is required, along with an approved completed thesis. For Plan II students, 30 semester hours of approved environmental coursework is required. It is expected that master’s students will pursue the Plan I (thesis) option. The Plan II (non-thesis) option may be pursued only with approval of the faculty of the department. Students wishing to pursue the Plan II option must formally petition the department faculty to be considered for approval and must present substantial reasons for seeking the variance.
- No more than 6 hours at the 400-level may be applied to this program, and as noted on the Approval of 400-Level Course for Master’s Credit form, approval must be obtained from the department and Graduate School before a 400-level course is taken for master’s credit.
- One course in air pollution and one course in water pollution are required.

Doctor of Philosophy Degree

Doctor of Philosophy students in each College of Engineering department with a PhD program must meet minimum course requirements and all other requirements described in the Doctoral Degrees (p. 23) and Degree Requirements (p. 20) section of this catalog.

Plan of Study

Requirements for the Graduate School include but are not limited to submission of a completed PhD Plan of Study (available on the Graduate School website) to the Graduate School. Early in the graduate program, students must meet with their program advisor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. All doctoral students must have a completed PhD Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a hold may be placed on future registration.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Admission to Candidacy

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination. See the online Graduate Catalog (Sec. 4.11.3) for details on Plan of Study, Admission to Candidacy, and all other degree requirements.

400-level Credit

Under no circumstances will graduate credit be given for courses numbered below 400. Only the 400-level credit (6 hours maximum) that was accepted for a master’s program may be accepted for a doctoral degree program.
Research Skill/Language Requirements

Each college or department offering the PhD degree may set its own requirements for the language/research skill. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School Degree Requirements (p. 20) section of this catalog.

For additional information about all requirements for the PhD degree, see Admission Criteria (p. 11) and Degree Requirements (p. 20) in earlier sections of this catalog. Students need to review requirements outlined in individual department descriptions in this catalog and visit the College of Engineering website.

Cooperative Education Program

Graduate students in the College of Engineering may choose to pursue their studies under a cooperative plan of education. The program is necessarily flexible, so that the study-work experience schedule will meet the needs of individual students. The availability of the cooperative plan will be dependent on the employment being approved by the student’s graduate committee.

A student in the Cooperative Education Program should be able to complete all requirements for the MS degree in two years. The schedule for PhD candidates is arranged, in cooperation with the participating industry, to fit the needs of the individual student.

Admission Requirements

Applicants for graduate work in engineering must apply for admission to the Graduate School of the University. Regular admission to graduate study may be granted to applicants who

- have earned baccalaureate degrees from institutions with programs accredited by the Accreditation Board for Engineering and Technology (ABET) or, for applicants for computer science programs, programs accredited by ABET or the Computing Sciences Accreditation Board (CSAB)
- have an overall GPA of at least 3.0 on a 4.0 scale, or at least 3.0 for the last 60 hours completed

Each applicant is required to submit a statement of purpose as part of the application packet; there are no exceptions.

All students, except University Scholars students, who are applying to engineering are required to submit a GRE score.

Other appropriate requirements may be established by the individual engineering departments.

Regular admission may also be granted to applicants who are not graduates of ABET- or CSAB-accredited programs and who have Graduate Record Examination general test scores of 1000 or higher, as specified by the department of interest. Each applicant should have the equivalent of a 3.0 or higher GPA (as in requirements listed above). Other appropriate requirements may be established by the individual engineering departments.

International Admission

International applicants for engineering graduate programs must satisfy the above requirements and must also have TOEFL scores of at least 550 or IELTS score of at least 6.5. The student’s proposed plan of study shall include a schedule for removing any undergraduate course deficiencies.

Conditional Admission

Conditional admission may be granted to applicants who

- have earned baccalaureate degrees from institutions with programs accredited by the Accreditation Board for Engineering and Technology (ABET) or, for applicants for computer science programs, institutions accredited by ABET or the Computing Sciences Accreditation Board (CSAB)
- have an overall GPA of at least 2.5 on a 4.0 scale

Other appropriate requirements may be established by the individual engineering departments.

Conditional admission may be granted to applicants who are not graduates of ABET- or CSAB-accredited programs and who have Graduate Record Examination general test scores of 1000 or higher, as specified by the department of interest. Each applicant should have the equivalent of a 2.5 or higher GPA (as in requirements listed above). Other appropriate requirements may be established by the individual engineering departments.

A student admitted conditionally is required to maintain a "B" average for the first 12 semester hours of graduate coursework and to remove any conditions imposed for admission in order to continue graduate study.

Applicants with GPAs of less than 2.5 (out of a possible 4.0) may be considered for admission to the Graduate School only after demonstrating the ability to pursue advanced work successfully.

See the Admission Criteria section of this catalog for more information.

Advisement and Committees

After admission to graduate study by the dean of the Graduate School, the student will be referred to the head of the appropriate department for assignment to a temporary advisor. The chairman and other members of the graduate student’s supervisory committee are usually appointed during the first term of enrollment. The examining committee (the membership of which is normally the same as that of the supervisory committee) is appointed approximately one semester before the student expects to graduate.

General Engineering Studies Courses

Graduate courses are offered on a regular basis in some departments, as indicated in the course listings. However, all graduate courses are taught only upon sufficient demand. In the following course listing, each description contains a set of parentheses immediately preceding the semester hours. The first number within the parentheses indicates the number of contact hours per week in lecture, recitation, or seminar. The second number indicates the number of contact hours per week in laboratory.

The College of Engineering requires that a grade of "C" or better be earned in all prerequisite courses.

Additional information is in the Admission Criteria (p. 11) section and the Degree Requirements (p. 20) section of this catalog.
GES courses are interdisciplinary and may be taken to meet individual program requirements.

GES500 Engineering Statistics
Hours 3
Probability and basic statistical concepts. Discrete and continuous distributions; the central limit theorem; sampling distributions; point and interval estimation; hypothesis testing; regression and correlation analysis; analysis of variance.

GES501 Operations Research
Hours 3
Model construction, linear programming, network models, dynamic models, stochastic models, queueing theory, and decision theory.

GES51 Matrix And Vector Analysis
Hours 3
This course provides a graduate level overview of linear algebra and vector analysis. Topics covered include: linear simultaneous equations, eigenvalues and eigenvectors, matrix functions, computer techniques, and transformations, vector calculus, the Laplacian, and integral theorems such as the theorems of Green and Stokes.

GES54 Partial Diff Equations
Hours 3
This course examines the solution of partial differential equations by focusing on three specific equations: (1) the heat equation, (2) the wave equation, and (3) Laplace’s equation. Topics covered include: Fourier transforms, Sturm-Liouville problems, classification of partial differential equations, Bessel functions, and numerical methods for solving partial differential equations.

GES55 Nonlinear Partial Differential Equations
Hours 3
An introduction to nonlinear partial differential equations. Exact solutions, approximate solutions, and numerical solutions will all be considered. The course content is supported by numerous applications.

Prerequisite(s): GES 554

GES55 Genetic Algorithms
Hours 3
Theory and application of genetic algorithms. Computer implementation and current applications in parameter and combinatorial optimization and optimal control genetics-based machine learning systems. Focus on both fundamental theory and modern applications.

Assistantships (teaching and research) are offered by the department and individual faculty to highly qualified applicants with preference towards those pursuing a PhD. Most assistantships start in the fall and last one academic year with consideration for renewal. An assistantship provides a competitive stipend, full tuition, and health benefits. No additional application is necessary. Contacting faculty with similar research interests is encouraged.

For more information about Aerospace Engineering and Mechanics graduate programs, contact Dr. James P. Hubner (phubner@eng.ua.edu).

- Majors
  - Aerospace Engineering and Mechanics (MS) (p. 470)
  - Aerospace Engineering and Mechanics (PhD) (p. 474)

[object Object]
Master’s students may, with permission of the department and prior approval by the Graduate School, receive credit for six (6) hours of 400-level credit. No 400-level courses can be approved for application to a PhD degree, other than the maximum of six (6) hours already completed as part of a master’s degree. A master’s student may, with approval of a petition, meet prerequisites with a combination of related coursework and experience.

AEM500 Intermediate Fluid Mechanics
Hours 3
Development and use of the integral and differential forms of the equations of continuity, momentum, and energy with ideal fluids and compressible fluids. Advanced topics in fluid mechanics, including potential flow, boundary layer flow, compressible flow, and open channel flow.

AEM508 Propulsion Systems
Hours 3
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance, and advanced propulsion systems.

AEM513 Compressible Flow
Hours 3
Fundamentals of high-speed aerodynamics theory discussed. Topics covered include: normal and oblique shock waves, heat addition and friction effects in one-dimensional flow, expansion waves in two-dimensional flow, quasi 1-D nozzle flow, unsteady compressible flow calculations using method of characteristics, shock tube relations.

AEM514 Experimental Aerodynamics
Hours 3
The course provides a laboratory counterpart to concepts discussed in aerodynamics and fluid mechanics. Course topics include statistical and uncertainty analysis techniques, design of experiments, computer-based data-acquisition, sensors for fluid mechanic measurements, and aerodynamic measurement techniques and facilities.

AEM515 Micro-Aerial Vehicles (MAVs)
Hours 3
This course surveys topics related to micro air vehicles (MAVs). These are small, flying vehicles generally classified by a maximum length of 15 cm. It is intended to be interdisciplinary in nature, involving seniors and first-year graduate students from different engineering academic departments.
AEM516 Helicopter Theory
Hours 3
Critical examination of the propulsive airscrew, including induced velocity relations, flow patterns, and similarity. Practical applications approached through existing theory and practice.

AEM517 Aircraft Systems
Hours 3
The principal objective of this course is to establish, develop, and refine capability in the integrated analysis and interdependency of aircraft systems.

AEM520 Computational Fluid Dynamics
Hours 3
Introduction to basic mathematical concepts and engineering problems associated with numerical modeling of fluid systems. Application of the state of the art numerical models to engineering problems. Fundamentals of Finite Difference and Finite Volume Methods and their applications in fluid dynamics and heat transfer problems will be covered.

AEM528 Space Propulsion
Hours 3
Students are introduced to different types of space propulsion systems in this class. Different rockets, such as: monopropellant, bi-propellant, solid, liquid, nuclear and electric rockets are discussed in detail. Working principles of these rockets, their intended use and their design are discussed. Power limited and energy limited rocket working principles are given. Several rocket design projects are assigned throughout the class.

AEM530 Continuum Mechanics
Hours 3

AEM535 Applied Finite Element Analysis
Hours 3
Applications of the finite element method to static stress analysis, heat transfer, natural frequency and Eigen-mode determination, for linear, hyper-elastic, and elastic-plastic materials. The course includes a basic background on finite element theory as well as usage of current finite element software.

AEM546 Intermediate Solid Mechanics
Hours 3
Two-dimensional theory of elasticity; exact and approximate solutions of bending, torsion, and buckling for bars; open sections and curved beams; stresses in axisymmetric members; and finite-element and energy methods.

AEM548 Stochastic Mechanics
Hours 3
This course develops, analyzes and discusses the application of uncertainty quantification in engineering systems and design methodologies to include uncertainties in the systems. Topics include: classification of uncertainties and methods of quantification, perturbation approaches, polynomial chaos, sampling techniques, random processes and Bayesian analysis.

AEM552 Composite Materials
Hours 3
First exposure to composite materials. Focus on how heterogeneity/ anisotropy in composites influence thermomechanical behavior. The behavior of both continuous and short fiber reinforced composites will be emphasized. Stress analysis for design, manufacturing processes and test methods of composite materials will be covered.

AEM553 Multiscale Analysis of Advanced Composites
Hours 3
Concepts of multiscale analysis, nano-mechanics, micromechanics - principles of analysis of heterogeneous systems, information transfer between multiple spatial and temporal scales, including atomistic-to-continuum coupling, continuum-to-continuum coupling, and temporal bridging. Prerequisite(s): AEM 655 or equivalent or consent of instructor.

AEM555 Nondestructive Evaluation
Hours 3
Fundamental theories, limitations and instrumentation of nondestructive test methods used for metal, polymer and composites materials. The ultrasonic, acoustic emission, vibration, thermography, eddy current, penetrant, and radiography methods are emphasized.

AEM559 Orbital Mechanics
Hours 3
Introduction to engineering application of celestial mechanics, high-speed, high-altitude aerodynamics, and other fields related to the contemporary problems of space vehicles. Fundamentals of applied dynamics, nomenclature of space flight, space environment and solar system, and two-body orbits. Kepler’s laws, coordinate transformations, and related studies.

AEM570 Mechanical Vibrations
Hours 3
Free and forced vibrations, both undamped and damped. Systems with many degrees of freedom are formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.

AEM574 Structural Dynamics
Hours 3
Theoretical foundations of structural dynamics and application of methods to modeling, analysis, and design.
AEM575 Fundamentals of Aeroelasticity
Hours 3
Aeroelasticity deals with interactions between aerodynamic loads and elastic static and/or dynamic deformations, as well as the influence of the interactions on aircraft performance. The performance of interest may include stability of structures immersed in an airflow (e.g., divergence, buffetting, and flutter), rejection of external disturbances (e.g., gust alleviation), and controllability of flight vehicle trajectory (attitude or motion). Structural mass and stiffness are often tailored to change the aerodynamic load distributions on lifting surfaces. Aeroelasticity is not just fluid mechanics or solid mechanics. Its major emphasis is the fluid-structure interaction. This course focuses on understanding the phenomenology of aerodynamic and structural interactions, instead of the complicated modeling processes. The material is relatively self-contained as we will introduce concepts such as mass and stiffness matrices, shear centers, aerodynamic coefficients, and aerodynamic centers, and then build on these concepts. The students will have access to some simple models, which may become complicated when the fluid-structure interaction is considered. With the study in the class, the students will be able to analyze fundamental aeroelastic phenomena and solve the problem by using a numerical tool. Students should learn the concept of aeroelastic tailoring and structural designs with aeroelastic constraints.

Prerequisite(s): AEM 574 or instructor's permission

AEM577 Advanced Linear Control
Hours 3
Modern techniques for the analysis and design of linear control systems. Matrix formulation; multivariable control systems; state-variable concepts; discrete-time systems; optimization; and statistical design methods.

AEM581 Complex Engineering Systems
Hours 3
Introduction to the concepts and techniques associated with the analysis of complex systems, dynamic systems, chaos, lumped parameter modeling, feedback, networks, thermal/electrical circuit analogies, entropy.

AEM582 Space Systems
Hours 3
Concepts in systems engineering of space systems: systems engineering, space systems, satellites, space transportation systems, space environment, attitude determination and control, telecommunications, space structures, rocket propulsion, and spacecraft systems.

AEM584 Space Environment
Hours 3
This course provides an introduction to the effects of the space environment on spacecraft. The harsh space environment introduces several unique challenges to the spacecraft designer. Focus on the impact of this environment and how best to mitigate these effects through early design choices will give the satellite designer better tools. Topics include: geomagnetic field, gravitational field of the Earth, Earth’s magnetosphere, vacuum, solar UV, atmospheric drag, atomic oxygen, free and trapped radiation particles, plasma, spacecraft charging, micrometeoroids.

AEM588 Advanced Space Propulsion and Power
Hours 3
This course will explore concepts, theory, and performance of electrical, nuclear, and exotic space propulsion systems for use in space. This exploration will include fundamental physical processes exploited by these propulsion schemes. The course will also include concept, theory and performance of power generation methods in space. Systems studied will include low and high power systems intended for short term or long term applications. Thermal, solar and nuclear devices and the energy conversion means for converting energy from these sources into useful electrical power will be studied.

AEM591 Special Problems
Hours 1-6
Independent investigations of special problems. Credit is based on the amount of work undertaken.

AEM592 Special Problems
Hours 1-6
Independent investigations of special problems. Credit is based on the amount of work undertaken.

AEM594 Special Projects
Hours 2-6
Planning, executing, and presenting results of individual project involving a research design, analysis, or similar undertaking.

AEM598 Non-Thesis Research
Hours 1-3
Research not related to thesis.

AEM599 Thesis Research
Hours 1-12
Research related to thesis.

AEM606 Physical Gas Dynamics
Hours 3
Introduction to the behavior of gases. Gases are treated as interacting particles and the collective behavior is studied as an ensemble of semi-random events. The evolution of gas properties from the molecular viewpoint to the continuum viewpoint will be examined. Applications of interest include chemical reactions important to hypersonic aircraft, scramjet engines, current and future high pressure ratio gas turbine engines as well as rocket propulsion.

AEM614 Airfoil And Wing Theory
Hours 3
Compressible and incompressible airfoil and wing theory.

AEM616 Rotorcraft Aeromechanics
Hours 3
This course presents the fundamentals of rotorcraft aeromechanics, which study equilibrium, motion, and control of elastic rotorcraft under aerodynamic loading. Topics included: blade motion, unsteady rotor aerodynamics, rotor wakes, dynamic stall, noise, and stability and control.

Prerequisite(s): AEM 516
AEM621 Viscous Flow
Hours 3
Development of basic boundary layer equations and concepts. Classical incompressible solutions for laminar boundary layer, approximate solutions, and concepts of turbulence.

AEM622 Turbulent Flows
Hours 3
Introduction to the physics and modeling of turbulent flows. This course will cover the governing equations of multi-species viscous laminar flows, origin and characteristics of turbulence, mathematical methods for obtaining the governing equations of turbulent flows, various modeling techniques for resolving closure problems associated with the governing equations of turbulent flows.

AEM624 Hypersonic Flow
Hours 3
This course develops, analyzes and discusses the application of hypersonic flow theory. Topics include: Hypersonic Shock/expansion wave relations, approximate methods to calculate lift and drag on hypersonic vehicles, boundary layer equations for hypersonic flow, and hypersonic viscous interactions.

AEM625 Advanced Computational Fluid Dynamics
Hours 3
Finite volume methods for numerical analysis of transport problems including fluid dynamics and heat transfer in complex curvilinear boundary fitted domain will be developed and applied.
Prerequisite(s): AEM 420 or AEM 520

AEM626 Unsteady Flow
Hours 3
This course develops, analyzes and discusses unsteady potential flow theory and the calculation of steady and unsteady aerodynamic loads and response on airfoils, wings and bodies as well as corresponding topics of current interest.
Prerequisite(s): BSAE or AEM 500 or instructor’s consent

AEM630 Flow Control
Hours 3
Passive, active and reactive flow management strategies to achieve transition delay/advance, separation control, mixing augmentation, drag reduction, lift enhancement, and noise suppression. Unified framework for flow control.
Prerequisite(s): AEM 500 or AEM 621 or equivalent

AEM635 Finite Element Methods
Hours 3
Finite-element formulations in the areas of solid mechanics, fluid mechanics, and heat conduction; isoparametric elements; assembly process; solution of stiffness equations; and convergence of results.

AEM637 Theory Of Elasticity
Hours 3
Equations of linear elasticity, principal stresses and strains, stress and displacement potentials, energy principles, and numerical methods. Boundary value problems of elasticity.

AEM638 Introduction to Experimental Mechanics
Hours 3
Theory and application of electrical resistance strain gauges for stress analysis and for use as transducers. Study of circuits and instruments used for strain measurement. Theory and application of photoelasticity for measurement of stress. Fundamentals of servohydraulic testing.

AEM644 Engineering Fracture Mechanics
Hours 3
Linear elastic and elastic-plastic fracture mechanics. Fracture analysis using Griffith’s criterion, stress intensity factors, CTOD methods, and the J-Integral.
Prerequisite(s): GES 554

AEM648 Theory Of Plasticity
Hours 3
Fundamentals of inelastic behavior of solids. Basic stress-strain relations for plastic action, yield criteria of metals, plastic instability, and slip-line field theory. Applications to axial, flexural, torsional, and cylindrically symmetric loads.
Prerequisite(s): AEM 637

AEM649 Fatigue Analysis
Hours 3
Presentation of the strain life and fracture mechanics approaches to fatigue analysis. Review of damage parameters, mean stress effects, and cycle counting methods for uniaxial and multiaxial loading.

AEM655 Advanced Composite Materials
Hours 3
Advanced topics in composite materials, including theories of linear orthotropic elasticity, micro-mechanics of composites, nano-composites, and sandwich structures.

AEM662 Multibody Dynamics
Hours 3
This course presents the fundamentals of multibody dynamics: kinematics and dynamics of multibody systems, analytical dynamics, constrained dynamical systems, and flexible multibody dynamics.
Prerequisite(s): AEM 562

AEM668 Advanced Dynamics Of Flight
Hours 3
Analysis of the rigid body dynamic motions of an aircraft; response of an airplane to actuation of controls; introduction to automatic control and stability; introduction to vehicle simulation by digital computer.

AEM685 Engineering Optimization
Hours 3
This graduate course introduces the techniques of design optimization of engineering systems. Topics include: Basic principles of optimization theory, parameter optimization problems, linear and nonlinear programming. Unconstrained and constrained problems treated by simplex, penalty function, generalized reduced gradient methods, global optimization techniques, and surrogate modeling.
Prerequisite(s): GES 551
AEM691 Special Problems
Hours 1-3
Independent investigations of special problems. Credit is based on the amount of work undertaken.

AEM694 Special Project
Hours 2-6
Planning, executing, and presenting results of an individual project involving a research design, analysis, or similar undertaking.

AEM698 Non-Dissertation Research
Hours 1-3
Research not related to dissertation.

AEM699 Dissertation Research
Hours 1-12
Research related to dissertation.

Faculty
Executive Vice President and Provost
Whitaker, Kevin
Dean, College of Engineering
Karr, Charles L.
Department Head
Baker, John
James R. Cudworth Chair
Gogineni, Prasad
William D. Jordan Chair
Roy, Samit
Undergraduate Programs Coordinator
Olcmen, Semih
Graduate Programs Coordinator
Hubner, James Paul
Mechanics Programs Coordinator
Barkey, Mark E.
Professors
Baker, John
Barkey, Mark E.
Gogineni, Prasad
Roy, Samit
Associate Professors
Cheng, Gary
Haque, Anwarul
Hubner, James Paul
Lang, Amy W.
Olcmen, Semih
Sharif, Muhammad Ali Rob
Assistant Professors
Branam, Richard
Mulani, Sameer
O’Neill, Charles
Shen, Jinwei
Sood, Rohan
Su, Weihua
Unnikrishnan, Vinu
Wang, Xiaowen "Sean"
Instructor
Beck, Sadie
Adjunct Faculty
Allison, Paul
Jordan, Brian
MacPhee, David
Marley, Brent
Professors Emeriti
Gambrell, Samuel, Jr.
Jackson, John E., Jr.
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Aerospace Engineering and Mechanics, MS

Admission Requirements
Admission requirements are outlined in the Admission Criteria section of this catalog. Specific admission information relating to the Department of Aerospace Engineering and Mechanics is listed on their departmental web page.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
A list of current degree requirements and additional information can be found on the Department of Aerospace Engineering and Mechanics website. The following departmental requirements are in addition to those specified by the Graduate School (Degree Requirements) and the College of Engineering (MS Degree and PhD Degree requirements) detailed in earlier sections of this catalog.

MS in Aerospace Engineering and Mechanics

The Department of Aerospace Engineering and Mechanics offers a Master of Science in aerospace engineering and mechanics degree via an on-campus program and an off-campus (distance learning) program through the College of Continuing Studies.

An MSAEM can be earned by coursework only or by a combination of coursework and an approved thesis. Most distance learning students elect to complete the coursework only degree option. On-campus students supported by assistantships are expected to complete an approved thesis.

- MSAEM – Thesis (Plan I) Option
- MSAEM – Non-Thesis (Plan II) Option
Thesis (Plan I) Option

Credit Hours
A total of 30 semester credit hours is required for a masters of science in aerospace engineering and mechanics degree. For the MSAEM Plan I option, these credit hours consist of:

<table>
<thead>
<tr>
<th>Core coursework</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics coursework, including GES 554</td>
<td>6</td>
</tr>
<tr>
<td>Elective coursework</td>
<td>12</td>
</tr>
<tr>
<td>AEM 599 Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

Elective coursework must be approved by the student’s advisor. Of the 12 Elective coursework credit hours, at least 6 must have an AEM designation.

Core Course Requirements
All students must complete a minimum of one (1) class from the Aerospace Core listing of classes and one (1) class from the Mechanics Core listing of classes.

Aerospace Core
- AEM 569 Orbital Mechanics
- AEM 582 Space Systems
- AEM 614 Airfoil And Wing Theory
- AEM 668 Advanced Dynamics Of Flight

Mechanics Core
- AEM 500 Intermediate Fluid Mechanics
- AEM 530 Continuum Mechanics
- AEM 562 Intermediate Dynamics
- AEM 637 Theory Of Elasticity

Mathematics Requirement
A total of six credit hours of mathematics is required. GES 554 Partial Diff Equations, which is three credit hours, is required and counts toward the six-credit hour mathematics requirement. The remaining three credit hours of mathematics coursework must be approved by the advisor.

Elective Coursework Requirement
A student must complete at least 12 hours of elective coursework. These courses are typically AEM courses, but other approved courses are acceptable. The specific courses must be approved by the student’s advisor.

Thesis Requirement
The student is required to submit a written thesis and defend in front of a thesis committee for approval by the committee and the graduate school.

Test Pilot School
Students who seek credit for Test Pilot School completed through the United States Air Force may send official transcripts from the TPS to the UA Graduate School for transfer credit. The student must receive a grade of at least a "B" in TPS for the credit to transfer. Additionally, the transfer of credit from TPS is subject to the restrictions placed on the transfer of credit by the Graduate School and the AEM Department. A maximum of six hours may be transferred. For additional information, view the transfer credit policy at the UA Graduate School website.

Non-Thesis (Plan II) Option

Credit Hours
A total of 30 semester credit hours is required for a Master of Science in aerospace engineering and mechanics degree. For the MSAEM Plan II option, these credit hours consist of:

<table>
<thead>
<tr>
<th>Core coursework</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics coursework, including GES 554</td>
<td>6</td>
</tr>
<tr>
<td>Elective coursework</td>
<td>18</td>
</tr>
<tr>
<td>Total Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

Elective coursework must be approved by the student’s adviser. Of the 18 Elective coursework credit hours, at least 12 must have an AEM designation.

Core Course Requirements
All students must complete at least one class from the Aerospace Core listing of classes and one class from the Mechanics Core listing of classes.

Aerospace Core
- AEM 569 Orbital Mechanics
- AEM 582 Space Systems
- AEM 614 Airfoil And Wing Theory
- AEM 668 Advanced Dynamics Of Flight

Mechanics Core
- AEM 500 Intermediate Fluid Mechanics
- AEM 530 Continuum Mechanics
- AEM 562 Intermediate Dynamics
- AEM 637 Theory Of Elasticity

Mathematics Requirement
A total of six credit hours of mathematics is required. GES 554 Partial Diff Equations, which is three credit hours, is required and counts toward the six-credit hour mathematics requirement. The remaining three credit hours of mathematics coursework must be approved by the advisor.

Elective Coursework Requirement
A student must complete a least 18 hours of elective coursework. These courses are typically AEM courses, but other approved courses are acceptable. The specific courses must be approved by student’s advisor.

Comprehensive Examination or Culminating Experience
Students pursuing the MSAEM Plan II degree option have the choice of completing one of the following options to satisfy the requirement of a comprehensive examination or culminating experience:

- Pass the Ph.D. qualifying examination that serves as the comprehensive examination or
- Complete a culminating experience and receive faculty adviser approval for the written report detailing the culminating experience. MSAEM Plan II students may, but are not required to, enroll in AEM 594 Special Projects, three credit hours, complete the culminating experience, and submit the written report detailing the culminating experience as part of the AEM 594 course requirements.

The student must have completed at least 18 hours of coursework prior to submitting the written report for the culminating experience. The approved written report for the culminating experience must be
submitted no later than the thesis deadline date during the semester in which the student intends to graduate. The comprehensive examination option may be attempted only twice.

**Test Pilot School**

Students that seek credit for Test Pilot School completed through the United States Air Force may send official transcripts from the TPS to the UA Graduate School for transfer credit. The student must receive a grade of at least a "B" in TPS for the credit to be transferable. Additionally, the transfer of credit from TPS is subject to the restrictions placed on the transfer of credit by the Graduate School and the AEM Department. A maximum of six hours can be transferred. For additional information, view the transfer credit policy at the UA Graduate School website.

**Master's Degrees**

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

**Program Requirements**

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

**Residency Requirements**

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department's transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates...
who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

**Journal Format.**

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master's Degree**

Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees
to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Aerospace Engineering and Mechanics, Ph.D.**

**Admission Requirements**

Admission requirements are outlined in the Admission Criteria section of this catalog. Specific admission information relating to the Department of Aerospace Engineering and Mechanics is listed on their departmental web page.

See the Admission Criteria section of this catalog for more information.

**Degree Requirements**

A list of current degree requirements and additional information can be found on the Department of Aerospace Engineering and Mechanics website. The following departmental requirements are in addition to those specified by the Graduate School (degree requirements) and the College of Engineering (MS Degree and PhD Degree requirements) detailed in earlier sections of this catalog.

**Doctor of Philosophy in Aerospace Engineering and Mechanics**

The Department of Aerospace Engineering and Mechanics offers a Doctor of Philosophy degree on campus and through alternative residency (distance learning). A research-based degree, students are required to propose, complete and defend an approved dissertation on a research topic that contributes to the field of aerospace engineering and/or engineering science and mechanics.

**Credit Hours**

A total of 72 semester credit hours is required for a Ph.D. degree. These credit hours consist of:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Core coursework</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>GES 554 Partial Diff Equations</td>
</tr>
<tr>
<td>6</td>
<td>Mathematics coursework</td>
</tr>
<tr>
<td>33</td>
<td>Elective coursework</td>
</tr>
<tr>
<td>24</td>
<td>AEM 699 Dissertation Research</td>
</tr>
<tr>
<td>72</td>
<td>Total Hours</td>
</tr>
</tbody>
</table>

Elective coursework must be approved by the student’s advisor. Of the 48 coursework credit hours, at least 24 must have an AEM designation.

**Core Course Requirements**

All students must complete a minimum of one (1) class from the Aerospace Core listing of classes and one (1) class from the Mechanics Core listing of classes.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Aerospace Core</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>AEM 569 Orbital Mechanics</td>
</tr>
<tr>
<td>3</td>
<td>AEM 582 Space Systems</td>
</tr>
<tr>
<td>3</td>
<td>AEM 614 Airfoil And Wing Theory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Mechanics Core</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>AEM 500 Intermediate Fluid Mechanics</td>
</tr>
<tr>
<td>3</td>
<td>AEM 530 Continuum Mechanics</td>
</tr>
<tr>
<td>3</td>
<td>AEM 562 Intermediate Dynamics</td>
</tr>
<tr>
<td>3</td>
<td>AEM 637 Theory Of Elasticity</td>
</tr>
</tbody>
</table>

**Mathematics Requirement**

A total of nine credit hours of mathematics is required. GES 554 Partial Diff Equations, three credit hours, is required and counts toward the nine-credit-hour mathematics requirement. The remaining six credit hours of mathematics coursework must be approved by the adviser.

**Elective Coursework Requirement**

A student must complete at least 33 hours of elective coursework. These courses are typically AEM courses, but other approved courses are acceptable. The specific courses must be approved by the student’s adviser, in consultation with student’s graduate advisory committee.

**Ph.D. Qualifying Examinations**

Students in the PhD program are required to successfully complete the qualifying examination based on the student’s core coursework. The qualifying examination may only be taken twice. A student should pass the qualifying examination within 18 months after completing 24 credit hours of AEM coursework and at least twelve months prior to graduation. The written examination is offered twice a year, usually in early October and early March. The Graduate Program Coordinator coordinates the PhD qualifying examinations.

**Test Pilot School**

Students who seek credit for Test Pilot School completed through the United States Air Force may send official transcripts from the TPS to the UA Graduate School for transfer credit. The student must receive a grade of at least a “B” in TPS for the credit to transfer. Additionally, the transfer of credit from TPS is subject to the restrictions placed on the transfer of credit by the Graduate School and the AEM Department. A maximum of six hours can be transferred. For additional information, view the transfer credit policy at the UA Graduate School website.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.
Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School’s criteria for transfer of credit. It may be necessary for students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for
students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student:
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which
the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal's format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage.

Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student's final semester, the student may qualify to enroll for fewer than 3 hours of
699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When the <em>completed</em> electronic dissertation was submitted to ProQuest/the Graduate School</th>
<th>Minimum hours of 699 required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Completed* means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under “Minimum Hours–Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

**Article-Style Dissertations**

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

**Electronic submission of dissertations:** August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection
of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

**Final Examinations**

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

**Application for Graduation**

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

**Clearing the Academic Record for Commencement**

At least one week before commencement, the candidate’s record must have been cleared for graduation.

**Attendance at Commencement**

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

**Withholding or Withdrawing an Advanced Degree**

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

**Department of Chemical and Biological Engineering (CHBE)**

- Majors
  - Chemical Engineering (MS) (p. 480)
  - Chemical Engineering (PhD) (p. 482)

**CHE512 Polymer Materials Engineering**

Hours 3

Introduction to the manufacture, processing, and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers.

**CHE518 Tissue Engineering**

Hours 3

Tissue engineering is an emerging dynamic, experimental science in which engineering and biological science principles are used to develop techniques for improving or restoring the structure and function of tissue.

**CHE540 Health Safety Chem Process Ind**

Hours 3

This course will introduce chemical engineering students to the health and safety regulations and the designs and procedures to meet them in the Chemical Process. Advanced topics will also be introduced, including current relevant topics, such as recent accidents and ways and means of preventing a reoccurrence, advanced models of spills, and advanced safety analysis.

**CHE545 Introduction to Biochemical Engineering**

Hours 3

Study of biological processes, application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth, and metabolic processes.

Prerequisite(s): CH 231

**CHE551 Adv Thermodynamics I**

Hours 3

Application of thermodynamic principles to chemical and phase equilibria.

**CHE552 Transport Phenomena**

Hours 3

Development of the analogy between momentum, energy, and mass transport, with applications.

**CHE553 Computation In Chem Engr**

Hours 3

Chemical-engineering applications of advanced calculus, numerical methods, and digital computer techniques, with emphasis on expressing physical situations in mathematical language.

**CHE554 Chemical Reaction Engr**

Hours 3

Chemical kinetics theory and experimental techniques. Industrial reactor design by advanced methods.

**CHE591 Special Problems**

Hours 1-4

Open to properly qualified graduate students. Advanced work of a research nature. Credit is based on the amount of work completed.

**CHE592 Special Problems**

Hours 1-3

Open to properly qualified graduate students. Advanced work of a research nature. Credit is based on the amount of work completed.

**CHE593 Chem & Biol Engr Practicum**

Hours 1-3

This course allows graduate students to gain classroom and lab experience under supervised conditions. Tasks may include grading for selected courses, structured lecturing, lab monitoring, and other related pedagogical exercises.

**CHE595 Seminar**

Hours 1

Discussion of current advances and research in chemical engineering, presented by graduate students and other speakers.
CHE596 Seminar
Hours 1
Discussion of current advances and research in chemical engineering, presented by graduate students and other speakers.

CHE598 Non-Thesis Research
Hours 1-6
No description available

CHE599 Thesis Research
Hours 1-12
No description available

CHE691 Special Problems
Hours 1-3
Problems of current research.

CHE692 Special Problems
Hours 1-3
Problems of current research.

CHE693 Chem & Biol Engr Practicum
Hours 1-3
This course allows graduate students to gain classroom and lab experience under supervised conditions. Tasks may include grading for selected courses, structured lecturing, lab monitoring, and other related pedagogical exercises.

CHE695 Seminar
Hours 1
Presentations of dissertation research.

CHE696 Seminar
Hours 1
Presentations of dissertation research.

CHE698 Non-Dissertation Research
Hours 1-6
No description available

CHE699 Dissertation Research
Hours 1-12
No description available

Faculty
Department Chair
Christopher Brazel
Professor
Christopher Brazel

Chemical Engineering, MS

Admission Requirements

Specific admission requirements for the programs in chemical and biological engineering coincide with those of the Graduate School and the College of Engineering (p. 463) as detailed earlier in this catalog. Admission is also contingent upon approval by the graduate faculty of the Department of Chemical and Biological Engineering. Special opportunities are available for students with undergraduate degrees in fields other than chemical engineering. See the Admission Criteria section of this catalog for more information.

M.S. Degree Requirements

All graduate students in chemical engineering are required to pass the following core graduate courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 551</td>
<td>Adv Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 552</td>
<td>Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>CHE 553</td>
<td>Computation In Chem Engr</td>
<td>3</td>
</tr>
<tr>
<td>CHE 554</td>
<td>Chemical Reaction Engr</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Master of Science-Thesis Option (Plan I): 30 Credit hours

Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework and write a thesis (a minimum of six semester hours of thesis research required).

- A minimum of 24 credit hours of coursework is required.
- A minimum of six hours of thesis research is required.
- A student's curriculum and thesis must be approved by the student's graduate advisory committee. The student must pass a final comprehensive examination, which is typically a presentation and defense of the thesis. In addition, the student must satisfy all University requirements defined in the current edition of The University of Alabama Graduate Catalog.

Master of Science-Non-Thesis Option (Plan II): 30 Credit hours

Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of credit and complete a culminating or "Capstone experience" as described below.

- A minimum of 30 credit hours of coursework is required.
- A student's curriculum must be approved by the student's graduate advisory committee. The graduate advisory committee must also approve the submission of a manuscript, a conference proceeding or a graduate seminar presentation. This activity shall constitute The University of Alabama Graduate School culminating experience requirement for a MS Plan II degree in chemical engineering.

For additional information about chemical engineering graduate programs, contact Dr. Heath Turner.

Master's Degrees

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a
minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.
A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the University of Alabama, a highly qualified person from another university, a business, or industry, the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Chemical Engineering, Ph.D.**

**Admission Requirements**

Specific admission requirements for the programs in chemical and biological engineering coincide with those of the Graduate School and the College of Engineering (p. 463) as detailed earlier in this catalog. Admission is also contingent upon approval by the graduate faculty of the Department of Chemical and Biological Engineering. Special opportunities are available for students with undergraduate degrees in fields other than chemical engineering.

See the Admission Criteria section of this catalog for more information.

**Doctor of Philosophy degree requirements**

Study in the doctoral program is contingent upon satisfactory performance on the qualifying examination described above. The department requires that students take and pass CHE 695 Seminar during the first part of the doctoral program of study and CHE 696...
Seminar in the latter part of the program. These two hours of seminar are in addition to the course hours needed for graduation.

A prospectus examination is required of all candidates for the doctor of philosophy degree. This examination is given after two full years of graduate study have been completed and the supervisory committee deems the student to have adequate preparation. The examination consists of a written proposal describing the student’s research activities and an oral presentation and defense of the proposal before the student’s supervisory committee. The examination must be completed at least one year prior to the final dissertation defense.

A doctoral Plan of Study must be submitted to the Graduate School by the time the student completes 30 hours of UA and/or transfer for the doctorate. The PhD Plan of Study is available at the Graduate School website.

A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination. See the online Graduate Catalog (Sec. 4.11.3) for details on plan of study, admission to candidacy, and all other degree requirements. The College of Engineering MS Degree and PhD Degree requirements (p. 463) are detailed in earlier sections of this catalog.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree...
from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. **All doctoral programs:** Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. **PhD Programs Only:** A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
A preliminary or comprehensive qualifying examination is required of all
Preliminary or Comprehensive Examination
School when the student submits the form for Admission to Candidacy
An amended Plan of Study (if needed) must be submitted to the Graduate
registrations.
the student will complete 30 semester hours of UA and/or transfer credit
(EdD, DNP) are available from the student’s department, college, or
Graduate School website. The Plan of Study for other doctoral programs
The PhD Plan of Study and DMA Plan of Study are available at the
will be completed, discuss research interests, and so forth. Then a Plan of
discuss when and by which method the doctoral residency requirement
appropriate departmental advisor or major professor to select courses,
Early in the graduate program, each student must confer with the
Plan of Study
of the GPA.
 repeats. In this case, both grades are used in calculation
the college dean may request permission of the Graduate School for such
a course to be repeated. In this case, both grades are used in calculation
Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and
it is deemed that an out-of-date course is integral to the degree program,
the college dean may request permission of the Graduate School for such
a course to be repeated. In this case, both grades are used in calculation
Plan of Study
Early in the graduate program, each student must confer with the
appropriate departmental advisor or major professor to select courses,
discuss when and by which method the doctoral residency requirement
will be completed, discuss research interests, and so forth. Then a Plan of
Study must be prepared and submitted to the Graduate School.
The PhD Plan of Study and DMA Plan of Study are available at the
Graduate School website. The Plan of Study for other doctoral programs
(EdD, DNP) are available from the student’s department, college, or
school. All doctoral students must have a completed Plan of Study
approved by the Graduate School no later than the semester during which
the student will complete 30 semester hours of UA and/or transfer credit
toward the doctoral degree. Otherwise, a “hold” may be placed on future
registrations.
An amended Plan of Study (if needed) must be submitted to the Graduate
School when the student submits the form for Admission to Candidacy
for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all
doctoral candidates. This examination is given after

• describes the compelling circumstances,
• briefly describes the current status of the dissertation, then
• includes a timeline showing each important remaining step
in the completion of the dissertation. The last step and date
in the timeline are submission of the successfully defended
dissertation on or before the published final date for submission
of dissertations for the requested extension semester.

• If the department head supports the petition, it is forwarded to the
college dean.
• If the college dean supports the petition, it is sent to the graduate
dean.
• If the graduate dean or his designee approves the extension, it will
not require the student to validate any out-of-date UA or transfer
courses previously approved for the plan of study.
• If a student fails to complete all degree requirements within the time
limit for the student’s doctoral program or within a one-semester
extension approved as noted above, the student will be dropped
(suspended) from the doctoral program. To complete a doctoral
degree, the student would have to reapply for admission and be
admitted by the department and Graduate School. Graduate
Council policies do not provide the option for a student failing to
complete within the time limit to revalidate (recertify) either UA or
transfer courses completed more than six years prior to the date
of admission. Thus, a readmitted student would be able to apply to
the new admission only those courses approved by the department
and Graduate School and completed within the six years (18 fall,
spring, and summer semesters) prior to the new admission.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.
**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog's section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student's final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours—Other Policies and Regulatory Bodies" on page 3 of this policy.

The University Calendar is available at the Academics tab of the website of the University Registrar.

**Article-Style Dissertations**

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
the principal investigator is responsible for contacting the college Human case of dissertation research that involves the use of human subjects, matter how great or small the involvement of the human subjects. In the and approval to use human subjects in research precede the research, no is conducted ethically. University and federal policies require that review

Scientific research involving human subjects has produced substantial Protection of Human Subjects for Research

before the student can be cleared for graduation.

In article-style dissertations, there will be introductory material to describe the studies, show how they are related, and explain their significance;

• connecting language to bridge each study to the next; and

• a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Electronic submission of dissertations: August 15, 2009, is the date

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Civil, Construction and Environmental Engineering (CCEE)

Graduate Degrees

• Civil Engineering (MS) (p. 492)

• Environmental Engineering (MS) (p. 499)

• Civil Engineering (PhD) (p. 495)

• Dual Graduate Degree Programs

• Scholars Program

Both coursework-only and coursework-with-thesis options are available in the master’s degree programs.

Graduate Research Focus Areas

• Construction Engineering and Management

• Environmental and Water Resources Engineering

• Structural Engineering and Materials

• Transportation Systems Engineering

While most graduate studies are focused in one of these four focus areas, many student plans of study involve two or more of the above areas.
For More Information

For additional information about our graduate programs, reference the Civil, Construction, and Environmental Engineering Graduate Handbook or contact Dr. Andrew J. Graettinger.

Master’s students may, with permission of the department and approval by the Graduate School, receive credit for six hours of 400-level credit. No 400-level courses can be approved for application to a PhD degree, other than the maximum of 6 hours already completed as part of a master’s degree. A master’s student may, with approval of a petition, meet prerequisites with a combination of related coursework and experience.

CE501 Masters Capstone Project-Plan II
Hours 3
Development of a research paper, professional practice or policy paper, or other equivalent report. Topic to be approved in advance by the student’s graduate advisor.
Prerequisite(s): MS Plan II students only

CE514 Information Systems Design
Hours 3
An overview of management information systems (MIS). The course will focus on the practical aspects, applications, and methodology or MIS, particularly from the construction engineer’s perspective. Information design methodology and building information modeling (BIM) will be covered in detail.

CE517 Advanced Project Management
Hours 3
Not open to students who have credit for CE 417. This is an engineering management course designed to introduce students to the functions of project engineers and managers. It details the processes of planning and controlling project scope, time, and cost.

CE518 Engineering Management
Hours 3
Not open to students who have credit for CE 418. An introduction to management principles, and the management functions of planning, organizing, motivating, and controlling. Management of engineers in research, design, manufacturing/construction, and quality will be studied.

CE521 Environmental Engineering Microbiology
Hours 3
Fundamentals of microbiology for environmental engineers and application of these principles to natural and engineered systems.
Prerequisite(s): CE 320 or equivalent

CE522 Solid Hazardous Waste Management
Hours 3
Engineering design and regulatory requirements for the collection, storage, recycling, treatment, and disposal of solid wastes.
Prerequisite(s): CE 320

CE524 Water & Wastewater Treatment
Hours 3
No description available
Prerequisite(s): AEM 311 or CHE 304; and CE 320

CE525 Air Pollution
Hours 3
Introduction to the source, characteristics, and effects of air pollution and to air pollution control technology and design.
Prerequisite(s): AEM 311 or CE 320

CE527 Storm Water Management
Hours 3
Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics. Selection and design of controls. Regulations.

CE531 Structural Dynamics
Hours 3
Response of civil engineering structures to typical dynamic loads including theory, development of basic equations, and measurement of structure response in the laboratory.
Prerequisite(s): AEM 264 and CE 331

CE532 Matrix Analysis of Structures
Hours 3
Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.
Prerequisite(s): CE 331

CE533 Structural Loads
Hours 3
Calculation of typical gravity and lateral loads on Civil Engineering structures, identification of load paths for different building systems, and preliminary evaluation of structural adequacy.
Prerequisite(s): CE 331

CE534 Advanced Structural Mechanics
Hours 3
Introduction to advances structural mechanics topics, including elementary elasticity, elementary beam theories, beams on elastic foundations, energy methods, buckling and free vibration of beams, and elementary thin-plate theory.

CE535 Concrete Materials
Hours 3
Prerequisite(s): CE 331 or CE 340

CE536 Wood Structural Design
Hours 3
Modern timber engineering: design of beams, columns, trusses, and floor systems.
Prerequisite(s): CE 331
CE537 Reinforced Concrete Struct II
Hours 3
Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slap-on-grade, and retaining walls.
Prerequisite(s): CE 433

CE538 Struct Steel Design II
Hours 3
Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multistory buildings, highway bridges, and light-gauge steel structures.
Prerequisite(s): CE 434

CE541 Wind and Earthquake Engineering
Hours 3
Wind and Earthquake engineering theories and their applications in load estimation and structural design.
Prerequisite(s): CE 531, Structural Dynamics or instructor permission.

CE542 Waste Containment Facility
Hours 3
Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics, and aspects of landfill design.
Prerequisite(s): CE 320

CE543 Prestressed Concrete Design
Hours 3
Analysis and design of prestressed concrete members, review of hardware, stress calculations, prestress losses, section proportioning, flexural design, shear design, deflections, and statically indeterminate structures.
Prerequisite(s): CE 433 or equivalent course on reinforced concrete structures

CE544 Foundation Engineering
Hours 3
Analysis and design of soil foundation systems.
Prerequisite(s): CE 340

CE554 Urban Transportation Planning
Hours 3
An introduction to the planning process, software associated with transportation modeling, and conducting transportation planning and traffic impact studies.

CE556 Transportation System Analysis
Hours 3
This course integrates the basic concepts and tools of systems analysis, including those from microeconomics, optimization, project evaluation and decision making into the context of transportation planning and management.
Prerequisite(s): CE 350

CE559 Pavement Design and Rehabilitation
Hours 3
This course covers two areas concerning care of existing highway asphalt and concrete pavements. Major maintenance includes overlay design, additional drainage, recycling, and slab repair. Routine maintenance includes distress surveys, pothole repair, and crack and joint sealing.
Prerequisite(s): CE 350 or CE 366

CE560 Front End Planning
Hours 3
Principles and applications for effective early planning of capital facilities, including: finance, economics decision making, risk management, team alignment, and front end planning processes and tools.

CE561 Horizontal Construction Method
Hours 3
Introduction to horizontal construction engineering equipment and methods. Design of horizontal construction systems, and construction operation analyses and simulation.

CE562 Vertical Construction Methods
Hours 3
Construction of buildings, including mechanical, electrical, plumbing and controls systems, design of temporary structures, and planning and design of lifts.
Prerequisite(s): CE 366

CE563 Construction Cost Estimating
Hours 3
Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tolls and techniques, contingency planning and relationship to contract types and project execution strategies.
Prerequisite(s): CE 366

CE564 Safety Engineering
Hours 3
Not open to students with credit for CE 464. An exposure to safety engineering and accident prevention including state and federal laws related to general and construction projects. Topics include accident theories, safety regulations, Construction Safety Act, hazards and their control, human behavior and safety, and safety management.
Prerequisite(s): GES 255, CE 366

CE567 Constr. Accounting & Finance
Hours 3
Applications of accounting and financial practice to management of construction projects.
Prerequisite(s): CE366

CE568 Construction Scheduling
Hours 3
The management structure of construction companies and the laws, regulations, practices, tools, and processes used in planning, scheduling, and monitoring construction projects. Writing proficiency is required for a passing grade in this course.
CE570 Open Channel Flow  
Hours 3  
Basic concepts of fluid flow, energy and momentum principles, flow resistance in nonuniform sections, channel controls and transitions, and nonuniform flow computations.  
Prerequisite(s): CE 378

CE573 Statistical Applications  
Hours 3  
Applications of statistical and probabilistic methodologies for analysis and solution of practical civil engineering problems, including hypothesis testing, simple and multiple regression analysis, analysis of variance for single and multi-factor experiments, forecasting models, simulation, and statistical quality control.  
Prerequisite(s): GES 255

CE575 Hydrology  
Hours 3  
Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology, and hydrologic simulation; includes a class project with application to flood control, water supply, and multipurpose projects.  
Prerequisite(s): CE 378

CE580 Forensic Engineering  
Hours 3  
When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.

CE581 Legal Aspects of Engineering and Construction  
Hours 3  
Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors. This is a three hour survey course covering, primarily, the organization of the federal and state courts, construction contracting, potential tort liability and professionalism for engineers in Alabama.  
Prerequisite(s): CE 320, CE 331, CE 340, CE 350, CE 366 or CE 378, and one HU elective (3 credits)

CE584 Exp. Design & Field Sampling  
Hours 3  
Experimental design, sensitivity analyses, water sampling and flow monitoring, receiving water chemical reactions. Field investigations.

CE585 Constructn Site Erosion Contrl  
Hours 3  

CE586 GIS for Civil Engineers  
Hours 3  
Introduction to geographic information system design and use for civil engineering problem solving.  
Prerequisite(s): CE 260 and any CE 300 Level course

CE591 Special Problems  
Hours 1-3  
Independent study. Credit is based on the amount of work undertaken.

CE593 Practicum  
Hours 1-3  
This course allows graduate students to gain classroom and laboratory experience under supervised conditions. Tasks may include grading for selected courses, structured lecturing, laboratory monitoring, and other related pedagogical exercises.

CE598 Non-Thesis Research  
Hours 1-6  
Research Not Related to Thesis. Variable credit.

CE599 Thesis Research  
Hours 1-12  
Master's Thesis Research. One to Twelve hours.

CE616 Advanced Information Systems  
Hours 3  
Current concepts in information systems architecture and applications, including decision support systems and expert systems. Emphasis placed on expanded use of systems design methodology.  
Prerequisite(s): CE 414 or CE 514

CE631 Experimental Methods in Structural Dynamics  
Hours 3  
Introduction to experimental methods in the behavior of structures subjected to dynamic loading. Principles of vibration testing and digital signal processing. Current techniques in modal analysis, system identification, actuator and structural control, structural health monitoring.  
Prerequisite(s): CE 531

CE632 Structural Reliability  
Hours 3  
The knowledge taught in this course is to provide the background needed to understand how reliability-based design criteria were developed and to provide a basic tool for structural engineers interested in applying this reliability-based design criteria to other situations.  
Prerequisite(s): CE 573 Statistical Applications in Civil Engineering or instructor permission

CE635 Analytical Methods in Cement and Concrete  
Hours 3  
Experimental methods used to characterize cementitious materials and conduct forensic or in-service investigations of concrete structures in the field (i.e. SEM, EDS, XRD, XRF, electron microprobe, calorimetry, and nondestructive testing / data acquisition & processing). Capabilities and limitations of these methods. Topics to rotate as needed to support current research.  
Prerequisite(s): Graduate standing
CE636 Advanced Infrastructure Materials  
Hours 3  
Introduction to advanced and innovative materials used in civil infrastructure systems. An introduction to research methodology in materials is also included.  
Prerequisite(s): CE 331

CE640 Earthquake Engineering  
Hours 3  
This course integrates the knowledge from several engineering and science disciplines, to develop an understanding of the effect of earthquake ground motions on the civil engineering structures, and lead to the design of earthquake resistant structures. The topics include engineering seismology, ground motion characterization, probabilistic hazard analysis, response spectra, inelastic structural analysis and performance-based earthquake-resistant design. The course will also introduce the recent development in the use of supplemental damping and seismic isolation systems to improve the seismic performance of buildings and bridges.  
Prerequisite(s): CE 531

CE641 Wind Engineering  
Hours 3  
This research-oriented class is intended to provide a rational description of the phenomena involved and to develop appropriate analytical and design tools for structural engineering. The course attempts to present a synthesis of the main trends of specialized literature in Wind Engineering.  
Prerequisite(s): CE 531

CE655 Sustainable Transportation  
Hours 3  
No description available

CE656 Transportation Demand & Network Model  
Hours 3  
Theory and models of individual choice behavior and their applications in travel demand modeling; mathematical models for transportation network problems and their applications in planning and operation of urban highway and transit systems.  
Prerequisite(s): CE 456 and CE 556 and CE 573  
Prerequisite(s) with concurrency: CE 573

CE671 Hydrologic Modeling  
Hours 3  
Basics of surface water modeling including hydrologic modeling of watersheds / basins and floodrouting.  
Prerequisite(s): CE 378

CE686 Advanced Civil Engineering GIS Application Development  
Hours 3  
This advanced GIS application development course takes a student-centered project-based learning approach to customize and program in GIS. The course focuses on solving real problems in civil engineering that are worthy of scholarly publication. Independent learning, research skills, and technical writing are strongly emphasized in this course.  
Prerequisite(s): Introductory course in GIS

CE691 Special Problems  
Hours 1-6  
Advanced work in some area of specialization. Credit awarded is based on the amount of work completed.

CE693 Practicum  
Hours 1-3  
This course allows graduate students to gain classroom and laboratory experience under supervised conditions. Tasks may include grading for selected courses, structured lecturing, laboratory monitoring, and other related pedagogical exercises.

CE699 Dissertation Research  
Hours 1-12  
No description available

Faculty  
Head  
Back, W. Edward

Director, Undergraduate Programs  
Williamson, Derek G.

Director, Graduate Programs  
Graettinger, Andrew

Director, Center for Sustainable Infrastructure  
Back, Edward W.

Director, University Transportation Center for Alabama  
Lindly, Jay K.

Director, Large Scale Structures Laboratory  
Kreger, Michael

Professors  
Back, Edward W.

Batson, Robert G.

Clement, Prabhakar

Fridley, Kenneth J.

Graettinger, Andrew

Johnson, Pauline D.

Jones, Jr., Steven

Kreger, Michael

Lindly, Jay K.

Moynihan, Gary P.

Moradkhani, Hamid

Nambisan, Shashi

Wang, Jialai

Associate Professors  
Richardson, James A.

Tootle, Glenn

Williamson, Derek G.

Assistant Professors  
Aaletti, Sri
Amirkhanian, Armen
Dao, Thang N.
Elliott, Mark
Hainen, Alexander
Kam, Jon
Song, Wei
Terry, Leigh
Adjunct professors
Allen, Jody
Amirkhanian, Serji
Stogner, Claude

Civil Engineering, MS

The department offers programs leading to the Master of Science in civil engineering, Master of Science in engineering (environmental engineering) and Doctor of Philosophy degrees in civil engineering. Research programs in the department include environmental quality and water resources; management and safety of transportation systems; structural engineering including assessment, renewal, and protection of infrastructure; and construction engineering and management. Laboratory facilities are provided for graduate research and instruction in these and other areas.

The requirements for admission to the Graduate School are detailed here (p. 11). The Department of Civil, Construction, and Environmental Engineering also embraces the requirements of the College of Engineering, summarized as follows:

1. An applicant must have earned a baccalaureate degree from an institution accredited by the Engineering Accreditation Council (EAC) of ABET Inc. and have a GPA of at least 3.0 on a 4.0 scale, or at least 3.0 for the last 60 hours completed.
2. An applicant who is not a graduate of EAC/ABET-accredited programs must have Graduate Record Examination general test scores of 300 or higher and have a GPA of 3.0 or higher on a 4.0 scale.

See the Admission Criteria section of this catalog for more information.

Degree Requirements

Master of Science Degree Requirements

The basic requirements for both the master of science in civil engineering and master of science in engineering (environmental engineering) are identical. A total of 30 hours is required for a master's degree, consisting of at least 24 regular course hours and 6 or more thesis research hours for Plan I students. The student’s advisor and supervisory committee work with the student to define an appropriate plan of study that meets all degree requirements, including any prerequisite or preparatory work and a core set of courses as required and specified by each specialty area. Plan I students are required to pass a thesis defense administered by the student’s supervisory committee while Plan II students must pass CE 501 MS Capstone Proj. Plan II.

Thesis Option (Plan I): 30 Credit Hours

Plan of Study (minimum of 30 credit hours)

- 6 hours of CE 599 Thesis Research
- 0-3 hours of CE 593 Practicum/CE 693 Practicum
- 21-24 hours of approved coursework
  - 9 hours of core coursework (see below)
  - 6 hours maximum of approved 400-level courses
  - 12 hours maximum of approved transfer credit
  - 15 hours minimum of CE courses
- Thesis Committee and Defense
  - Minimum of three graduate faculty, with the majority from the department and at least one member from outside the department
  - Maximum of two attempts to pass defense
  - The Committee may require additional prerequisite courses (not allowed as part of the Plan of Study) for those students without an ABET/EAC-accredited degree
- Maximum of 6 years to complete degree requirements

Non-Thesis Option (Plan II): 30 Credit Hours

Plan of Study (minimum of 30 credit hours)

- 0-3 hours of CE 593 Practicum/CE 693 Practicum
- 0-3 hours of CE 598 Non-Thesis Research
- 21-27 hours of approved coursework
- Approved Coursework (21-27 hours)
  - 9 hours of core coursework (see below)
  - 6 hours maximum of approved 400-level courses
  - 12 hours maximum of approved transfer credit
  - 18 hours minimum of CE courses
- 3 Hours CE 501 Master Capstone Project
- Maximum of 6 years to complete degree requirements

MSCE Core Coursework Requirements (9 hours)

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<th>Hours</th>
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<td><strong>Credit Hours Subtotal:</strong></td>
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<tr>
<th>Construction Engineering and Management</th>
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<tbody>
<tr>
<td>CE 573 Statistical Applications</td>
<td>3</td>
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<tr>
<td>CE 567 Constr. Accounting &amp; Finance</td>
<td>3</td>
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<tr>
<td>CE 568 Construction Scheduling</td>
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<th>Structural Engineering and Materials</th>
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<td>CE 573 Statistical Applications</td>
<td>3</td>
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<tr>
<td>CE 534 Advanced Structural Mechanics</td>
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<td>CE 531 Structural Dynamics</td>
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| Credit Hours Subtotal: | 9 |

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<tr>
<th>Environmental and Water Resources Engineering</th>
<th>Hours</th>
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<tr>
<td>CE 573 Statistical Applications</td>
<td>3</td>
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<tr>
<td>CE 524 Water &amp; Wastewater Treatment</td>
<td>3</td>
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<td>CE 575 Hydrology</td>
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<tr>
<th>Transportation Systems Engineering</th>
<th>Hours</th>
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<tr>
<td>CE 573 Statistical Applications</td>
<td>3</td>
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<tr>
<td>CE 591 Special Problems (When offered as Statistics &amp; Econometrics for Engineers)</td>
<td>3</td>
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<tr>
<td>CE 559 or Pavement Design and Rehab</td>
<td>3</td>
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<tr>
<td>CE 556 Transportation System Anyls</td>
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Master's Degrees

The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master's degree:

Plan I. Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master's candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.
Article Style vs. Journal Format

Article Style.

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.

Journal Format.

A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details. Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded.***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.
Civil Engineering, Ph.D.

Admission Requirements

The requirements for admission to the Graduate School are detailed below. The Department of Civil, Construction, and Environmental Engineering also embraces the requirements of the College of Engineering, summarized as follows:

1. An applicant must have earned a baccalaureate degree from an institution accredited by the Engineering Accreditation Council (EAC) of ABET, inc. and have a GPA of at least 3.0 on a 4.0 scale, or at least 3.0 for the last 60 hours completed.
2. An applicant who is not a graduate of EAC/ABET-accredited programs must have Graduate Record Examination general test scores of 1000 or higher and a GPA of 3.0 or higher on a 4.0 scale.

See the Admission Criteria section of this catalog for more information.

Doctor of Philosophy Degree

Requirements

A total of 72 hours is required for the degree, including a minimum of 48 hours of coursework beyond the baccalaureate and 24 hours of dissertation research. A maximum of 24 hours of approved transfer credit is allowed, with approval of the Graduate School on the form for Request for Transfer of Graduate Credit.

The student’s adviser and supervisory committee will work with the student to define an appropriate plan of study that meets all degree requirements, including any prerequisite or preparatory work and a core set of courses as required and specified by each specialty area. After approval by the department the PhD Plan of Study is submitted to the Graduate School for final approval. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a “hold” may be placed on future registration.

Students are required to pass a preliminary examination that includes both written and oral components, a proposal defense, and a final dissertation defense administered by the student’s supervisory committee.

After passing the comprehensive (preliminary) examination, the student should complete and submit an Admission to Candidacy for the Doctoral Degree to the department for approval. A department-approved candidacy form will be forwarded to the Graduate School for final approval.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of
Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved.

This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.
Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student's research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer.
semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS section under "Minimum Hours—Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.
Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Environmental Engineering, MS

Admission Requirements

The requirements for admission to the Graduate School are detailed below. The Department of Civil, Construction, and Environmental
Degree Requirements

RESEARCH THESIS OPTION (PLAN I)
The thesis option is a research-focused program, which includes conducting original research, writing a research thesis, and defending the thesis to the student’s graduate supervisory committee. The research thesis option degree requirements are as follows:

A minimum of 30 credit hours, including:

• 21 credit hours of approved coursework, including
  • 9 credit hours of core graduate coursework
  • (See later section for additional information regarding the graduate core)
  • A maximum of 6 hours of approved 400-level courses
    (Use Graduate School’s “Approval of 400-Level Course for Master’s Credit” form)
  • A minimum of 15 hours of CE-prefix courses
    (See Appendix I for a schedule for all CE-prefix courses offered by the department)
  • 3 hours of CE 593 Practicum or CE 693 Practicum
  • Taken with permission under the supervision of the student’s graduate advisor
  • (See later section for additional information regarding Practicum)
• 6 hours of CE 599 Thesis Research
  • Taken with permission under the supervision of the student’s graduate advisor
  • The graduate advisor must be a full member of the department’s graduate faculty
  • Once taken, CE 599 Thesis Research must be taken every term until graduation

PAPER/REPORT OPTION (PLAN II)
The paper/report, or non-thesis, option requires a research paper, a policy and practice paper, or equivalent culminating experience, which is graded by the student’s graduate advisor. The paper/report option requirements are as follows:

A minimum of 30 credit hours, including:

• 27 credit hours of approved coursework
  • 9 credit hours of core graduate coursework
    (See later section for additional information regarding the graduate core.)
  • A maximum of 6 hours of approved 400-level courses
    (Use Graduate School’s “Approval of 400-Level Course for Master’s Credit” form.)
  • A maximum of 3 hours of CE 593 Practicum or CE 693 Practicum
    (See later section for additional information regarding Practicum.)
  • A minimum of 18 hours of CE-prefix courses
  • 3 credit hours of CE 501 MS Capstone Proj. Plan II
    • Taken with permission under the direction of the student’s graduate advisor
    • The graduate advisor must be a full member of the department’s graduate faculty
    • Requires completion of a research paper, a policy and practice paper, or equivalent report with the topic, scope, and format preapproved by the student’s advisor
    • Must be taken the semester the student plans to graduate

EWR Core Course

Environmental and Water Resources Engineering Core Coursework (MSCivE, MSEnvE, Ph.D.):

• CE 573 Statistical Applications
• CE 575 Hydrology

Additional Course Requirements for Students Without an ABET/EAC-Accredited Degree

• AEM 201 Statics, AEM 264 Dynamics, AEM 250 Mechanics Of Materials I, AEM 311 Fluid Mechanics

Master’s Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.
Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master’s degree.

Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.
As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Department of Computer Science (CS)**

- Majors
  - Computer Science (MS) (p. 505)
  - Computer Science (PhD) (p. 507)

[object Object]

**CS503 Programming Languages**

Hours 3

(Not open to students who have earned credit for CS 403) This course provides a graduate level presentation of Programming Languages. Formal student of programming language specification, analysis, implementation, and run-time support structures; organization of programming languages with emphasis on language constructs and mechanisms; and study of non-programming paradigms.

Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade C- AND Not open to students who have earned credit for CS 403

**CS507 Software Interface Design**

Hours 3

(Not open to students who have earned credit for CS 407.) Concepts of the human-computer interface, emphasizing the software aspects. Dialog styles, form models, user documentation and the evaluation of human-computer software interfaces.

Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade C- AND Not open to students who have earned credit for CS 407.

**CS515 Software Design and Development**

Hours 3

Object-oriented design and development using UML and Java, design patterns, and architectural patterns.

Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade C- AND Not open to students who have earned credit for CS 415.
CS516 Testing and Quality Assurance
Hours 3
Study of verification & validation and related processes. Topics include techniques and tools for software analysis, testing, and quality assurance.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 416.

CS517 Requirements Engineering
Hours 3
Study of requirements engineering and its phases. Topics include formal, semi-formal, and informal paradigms for elicitation, documentation, and management of software system requirements.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383

CS518 Software Project Management
Hours 3
Study of project management and its phases. Topics include techniques and tools for software project planning, estimation, organization, and management.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383

CS520 Software Maintenance & Evolution
Hours 3
Study of software change and its phases. Topics include techniques and tools for concept location, impact analysis, actualization, refactoring, and validation.
Prerequisite(s): CS 315, (CS 350 or CS 351), CS 360, and ECE 383

CS526 Intro Operating Systems
Hours 3
(Not open to students who have earned credit for CS 426.) This course provides a graduate level presentation of Introduction to Operating Systems. Study of basic operating system concepts with an emphasis on memory processor, device, and information management.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 426.

CS528 Computer Security
Hours 3
An examination of computer security concepts, such as cryptographic tools, user authentication, access control, database security, intrusion detection, malicious software, denial of service, firewalls and intrusion prevention systems, trusted computing and multilevel security, buffer overflow, software security, physical and infrastructure security, human factors, and security auditing.
Prerequisite(s): CS 315 and ECE 383; and CS 350 or CS 351 or CS 352; and CS 360

CS34 Compiler Construction
Hours 3
(Not open to students who have earned credit for CS 434.) This course provides a graduate level presentation of Compiler construction. Syntax and semantics of procedure-oriented languages and translation techniques used in their compilation; includes computer implementation.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 434.

CS535 Computer Graphics
Hours 3
(Not open to students who have earned credit for CS 435.) Display memory, generation of points, vectors, etc. Interactive versus passive graphics, analog storage of images on microfilm, etc. Digitizing and digital storage, pattern recognition by features, syntax tables, and random nets. The mathematics of three dimensions, projections, and the hidden-line problem.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 435.

CS538 Computer Comm & Networks
Hours 3
(Not open to students who have earned credit for CS 438.) This course provides a graduate level presentation of Computer Communications and Networks. The student of the issues related to Computer communications. Topics include physical topologies, switching, error detection and correction, routing, congestion control, and connection management for global networks (such as the Internet) and local area networks (such as Ethernet). In addition, network programming and applications will be considered.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 438.

CS548 Network Security
Hours 3
Concepts concerning network security, including an examination of network security concepts, algorithms, and protocols.
Prerequisite(s): CS 200, CS 201 and ECE 383

CS557 Database Management Systems
Hours 3
(Not open to students who have earned credit for CS 457.) This course provides a graduate level presentation of Database Management Systems. Constituent parts of database management (design, creation, and manipulation of databases), client-server, relational, and object-oriented data models.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 457.
CS560 Introduction To Autonomous Robotics
Hours 3
(Not open to students who have earned credit for CS 460.) Issues involved with the implementation of robot control software including motion, kinematics, simulation testing, sensor incorporation and unmodeled factors.
Prerequisite(s): CS 426

CS565 Artificial Intelligence
Hours 3
The advanced study of topics under the umbrella of artificial intelligence including problem solving, knowledge representation, planning and machine learning.
Prerequisite(s): Graduate standing

CS567 Computer Systems Architecture
Hours 3
Computer architectures, computer design, memory systems design, parallel processing concepts, supercomputers, networks, and multiprocessing systems.

CS570 Computer Algorithms
Hours 3
(Not open to students who have earned credit for for CS 470.) This course provides a graduate level presentation of Introduction to Computer Algorithms. Construction of efficient algorithms for computer implementation.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 470.

CS575 Formal Languages & Machines
Hours 3
(Not open to students who have earned CS 475.) Regular expressions and finite automata. Context free grammars and pushdown automata. Recursively enumerable languages and turing machine. The Chomsky hierarchy.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 470.

CS580 Computer Simulation
Hours 3
Introduction to simulation and use of computer simulation models; simulation methodology, including generation of random numbers and variants, model design, and analysis of data generated by simulation experiments.
Prerequisite(s): (CS 200 or CS 315) Minimum Grade C- AND (CS 201 or CS 360) Minimum Grade C- AND ECE 383 Minimum Grade of C- AND Not open to students who have earned credit for CS 470.

CS591 Special Topics In Cs
Hours 3
Formal courses that cover new and innovative topics in computer science and do not yet have their own course numbers. Specific course titles will be announced.

CS592 Independent Study
Hours 1-6
This course requires a written proposal that must be approved by the sponsoring faculty member before registration.

CS598 Non-Thesis Research
Hours 1-6
No description available

CS599 Thesis Research
Hours 1-6
No description available

CS600 Foundatns Software Engr
Hours 3
Introduction to formal software development techniques; theoretical foundations of specification, design, and testing; and programming methodologies and software reuse.
Prerequisite(s) with concurrency: CS 515 or CS 415

CS602 Adv Formal Lang & Machin
Hours 3
Regular languages, context-free languages, recursive and recursively enumerable languages, nondeterminism, and undecidability.

CS603 Organz Program Languages
Hours 3
Design and implementation of programming languages; syntax and translation; semantic structures and run-time representations; data, operations, control structures, and storage management.
Prerequisite(s): CS 503
Prerequisite(s) with concurrency: CS 403

CS605 Artificial Intelligence
Hours 3
An advanced course in artificial intelligence topics. These topics include, but are not limited to, topics such as problem solving, knowledge representation, planning, and machine learning. The course will examine the various branches within the field as well as applications of artificial intelligence.

CS606 Analys Operating Systems
Hours 3
Design of operating systems; advanced examination of synchronization, deadlock, virtual memory, and security; and parallel and distributed systems.
Prerequisite(s) with concurrency: CS 426 or CS 526

CS607 Software User Interface
Hours 3
Concepts of the human-computer interface, emphasizing the software aspects. Dialog styles, form models, user documentation, and the evaluation of human-computer software interfaces.
Prerequisite(s): CS 507
Prerequisite(s) with concurrency: CS 407
CS609 Database Management
Hours 3
Data model theory, comparison of existing database systems, implementation technology, selection, evaluation techniques, integrity, security, authorization and protection, and hardware architecture.
Prerequisite(s): CS 557
Prerequisite(s) with concurrency: CS 457

CS612 Advanced Data Structures
Hours 3
A graduate-level study of data structures. Topics include self-balancing trees binomial and Fibonacci heaps, disjoint sets, graphs and digraphs.

CS613 Adv Computer Comm & Networks
Hours 3
Study of computer networks, including telecommunications and related data transmission techniques. Network philosophy, design, and implementation.
Prerequisite(s): CS 438 or CS 538

CS615 Cryptography and Data Security
Hours 3
An examination of algorithms and concepts in cryptography and data security, such as symmetric ciphers, asymmetric ciphers, public-key cryptography, hash functions, message authentication codes, key management and distribution.
Prerequisite(s): CS 528 or CS 428

CS618 Wireless Mbile Netrwrk Protoc
Hours 3
Network protocol design and analysis in wireless and mobile networks. Topics include ad hoc.
Prerequisite(s): CS 438 or CS 538 or CS 613 or ECE 406 or ECE 506 or ECE 502

CS630 Empirical Software Engineering
Hours 3
Introduction to empirical research methods in software engineering. Focus on measuring processes and designing experiments.
Prerequisite(s): CS 315 or CS 515

CS691 Special Topics
Hours 3
Formal courses that cover new and innovative topics in computer science and do not yet have their own numbers; specific course titles will be announced.

CS692 Special Topics
Hours 1-6
This course requires a written proposal that must be approved by the sponsoring faculty member before registration.

CS699 Dissertation Research
Hours 1-12
No description available

Faculty
Head
David W. Cordes
Professor
David W. Cordes

Computer Science, MS
Admission Requirements
In addition to meeting the admission requirements established by the Graduate School (Admission Criteria), students applying for graduate study in the department must also meet the following general requirements:
1. demonstrated competence in programming
2. completion of the equivalent of the department’s undergraduate core computer science curriculum
3. demonstration, by an appropriate score on the general test of the Graduate Record Examination, of competence in the discipline of computer science

See the Admission Criteria section of this catalog for more information.

Each student must submit scores from the Graduate Record Examination general test. This requirement may be waived for a student who graduated with a GPA of 3.0 or higher on a 4.0 scale from an institution accredited by the CAC Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone 410-347-7700. It is strongly recommended that each student submit a score from the GRE Subject Exam in Computer Science, particularly students who wish to be considered for funding opportunities.

Additional details of these requirements may be obtained directly from the department. Applicants who present most but not all of these qualifications may be considered for conditional admission.

Degree Requirements
Master of Science
Departmental degree requirements for the MS degree, which are in addition to those established by the College and by the Graduate School, are as follows for Plan I and Plan II students:
• Each Plan I candidate must earn a minimum of 24 semester hours of credit for coursework, plus a six-hour thesis under the direction of a faculty member.
• Each Plan II candidate must earn a minimum of 30 semester hours of credit for coursework, which may include a three-hour nonthesis project under the direction of a faculty member.
• Unlike the general College of Engineering requirements, graduate credit may not be obtained for courses at the 400-level.

Both plans also have core and depth requirements, which can be found at the website of the Department of Computer Science. Additional information is in the Degree Requirements section of this catalog.

Master’s Degrees
The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases,
master's programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master's degree:

**Plan I.** Candidates for the master's degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

**Plan II.** Candidates for the master's degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or "capstone experience" as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student's program at the master's level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master's degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student's advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a "B" average on all graduate work attempted. Only courses in which a student earned a "B" grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School's website a Request for Transfer of Graduate Credit earned at another institution. It is also the student's responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student's department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master's degree may be transferred from another institution. All credit toward the master's degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master's degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master's program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree program, but only if a form for Approval of 400-Level Course Work for Master's Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master's degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master's students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master's candidacy if they wish, but the Graduate School does not monitor it and will not accept master's candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master's degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student's major department or division.

The final oral thesis defense is the culminating experience in the master's program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

**Article Style.**

At the doctoral level, "article-style dissertations" are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an "article-style thesis" to be presented for a master's degree.
Journal Format.
A "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master's Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's thesis committee. Unless there are extraordinary circumstances meritng approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean's approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School's homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School's website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student's major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a "culminating" or "capstone" experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree
Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master's degrees.

Computer Science, Ph.D.
Admission Requirements
In addition to meeting the admission requirements established by the Graduate School (Admission Criteria), students applying for graduate study in the department must also meet the following general requirements:

1. demonstrated competence in programming
2. completion of the equivalent of the department's undergraduate core computer science curriculum
3. demonstration, by an appropriate score on the general test of the Graduate Record Examination, of competence in the discipline of computer science

See the Admission Criteria section of this catalog for more information. Each student must submit scores from the Graduate Record Examination general test. This requirement may be waived for a student who graduated with a GPA of 3.0 or higher on a 4.0 scale from an institution accredited by the CAC Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone 410-347-7700. It is strongly recommended that each student submit a score from the GRE Subject Exam in Computer Science, particularly students who wish to be considered for funding opportunities.

Additional details of these requirements may be obtained directly from the department. Applicants who present most but not all of these qualifications may be considered for conditional admission.

Degree Requirements

Doctor of Philosophy

The doctor of philosophy degree is regarded as a research degree and is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and the capacity for independent, original investigation. The first two criteria are tested in coursework and a qualifying examination, the last by a dissertation that must present the results of substantial research clearly and effectively. A combination of these accomplishments, rather than the mere accumulation of residency and course credits, is the essential consideration in awarding the PhD degree.

A minimum of 48 semester hours of course credit is required. Graduate credit may not be obtained for courses at the 400-level. Approval of the selection of courses must be obtained from the student’s advisor and supervisory committee, and the course of study as a whole must be unified so that all its parts contribute to an organized program of study and research. A PhD Plan of Study (available at the Graduate School website) must be prepared and submitted to the Graduate School not later than the semester in which the student accumulates 30 hours of transfer and/or UA course work.

Students also must complete at least 24 semester hours of dissertation research and have fulfilled residency, passed the comprehensive (preliminary) and other exams. A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination. See the website for the Department of Computer Science and details below on plan of study, admission to candidacy, and all other degree requirements.

All requirements for the PhD must be completed within seven years (21 fall, spring and summer semesters) of the admission semester. See this catalog’s time limits section below.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.
Doctor of Education Degree
A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree
The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied toward the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (re certification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.
Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  - a. describes the compelling circumstances,
  - b. briefly describes the current status of the dissertation, then
  - c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student's department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699
Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the proposed research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the &quot;completed electronic dissertation submitted to ProQuest/the Graduate School?&quot;</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.
Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.
Department of Electrical and Computer Engineering (ECE)

- Majors
  - Electrical and Computer Engineering (MS) (p. 515)
  - Electrical and Computer Engineering (PhD) (p. 517)

Master’s degree students may earn graduate credit for a maximum of 6 semester hours of 400-level course credit but only if a form for Approval of 400-Level Course Work for Master’s Credit (p. 11) is approved by the department and Graduate School prior to the semester in which the 400-level coursework will be taken.

ECE508 Communications
Hours 3
Analog and digital communication systems, random signals, sampling, filtering, analog-to-digital encoding, advanced digital modulation/demodulation, source encoding/decoding, channel encoding/decoding, multiplexing, system performance analysis.
Prerequisite(s): ECE 370 and MATH 355
Prerequisite(s) with concurrency: ECE 509

ECE509 Communications Lab
Hours 1
Modeling and design of communication systems. Familiarization with specialized communications equipment and techniques. Proper use of laboratory instruments.
Prerequisite(s): ECE 370 and MATH 355
Prerequisite(s) with concurrency: ECE 508

ECE530 Solid State Devices
Hours 3
Solid state physics for semiconductor devices, PN junction, metal semiconductor, JFET/MESFET, MOSFET, BJT, and non-ideal behaviors of solid state devices. Organic thin film devices, including organic solar cells, thin film transistors, light emitting diodes, and their application for flexible displays.
Prerequisite(s): ECE 330

ECE534 Mixed Signal Circuits
Hours 3
Design and testing issues in the context of mixed-signal embedded systems. Introduction to CMOS mixed-signal design methodology, layout techniques, analog to digital converters, digital to analog converters, circuit simulation and testing and packaging of complex mixed-signal systems.
Prerequisite(s): ECE 332

ECE538 Integr Circuit Fabr Prin
Hours 3
Study of the processing tools used in semiconductor device fabrication. Topics include semiconductor fundamentals, semiconductor device fabrication processes, interconnections and contacts, integrated circuit packaging, and chip yield. Oral presentation and advance analytical work required.

ECE539 Thin Film Technology
Hours 3
Crystal structure and defects, film nucleation and growth models, growth of polycrystalline and epitaxial films, vacuum science technology, physical and chemical vapor deposition, solution based methods, thin film characterization techniques.
Prerequisite(s): ECE 225 or PH 253

ECE540 Electromagnetic Waves
Hours 3
Mathematics and physics of the radiation, propagation and scattering of electromagnetic waves. Boundary value problems involving finite and infinite structures, waveguides, antennas and media.
Prerequisite(s): ECE 340

ECE551 Power Electronics
Hours 3
Prerequisite(s): ECE 332 and ECE 350

ECE552 Power Electronics Laboratory
Hours 1
Laboratory experience in three phase power systems and electric machinery. Laboratory experience on the theory and operation of power electronic converters, systems and machine drives.
Prerequisite(s): ECE 350 and ECE 332
Prerequisite(s) with concurrency: ECE 551

ECE553 Power Systems
Hours 3
Basic power systems concepts and per unit quantities; transmissions line, transformer and rotating machine modeling; power flow; symmetrical component of power systems; faulted power system analysis.
Prerequisite(s): ECE 350

ECE554 Power Systems Laboratory
Hours 1
Test and analysis of power systems and machine devices and the design of systems using devices.
Prerequisite(s): ECE 350
Prerequisite(s) with concurrency: ECE 553

ECE555 Electromechanical Systems
Hours 3
Static and dynamic modeling, analysis, and simulation of mechanical, electrical, hydraulic, and mixed systems. MATLAB and SIMULINK model development and simulation.
Prerequisite(s): ECE 225 and MATH 238
ECE561 Quantum Well Elec & Devices
Hours 3
Energy levels and wave functions of semiconductor microstructures; envelope function approximation; quantum wells, superlattices; excitons; optical and electrical properties; selection rules; quantum confined Stark Effect; Wannier-Stark localization; field-effect transistors, tunneling devices, quantum well lasers, electro-optic modulators, quantum-well intersubband photodetectors.
Prerequisite(s): ECE 330 or PH 253

ECE562 Semiconductor Optoelectronics
Hours 3
Elemental and compound semiconductors; fundamentals of semiconductors physical properties, solid state physics, optical recombination and absorption, light emitting diodes, quantum well lasers, quantum dots lasers, blue lasers, semiconductor modulators, photodetectors, semiconductor solar cells and semiconductor nanostructure devices.
Prerequisite(s): PH 253

ECE563 Magnetic Materials & Devices
Hours 3
Diamegnetism and Paramagnetism, Ferromagnetism, Antiferromagnetism, Ferrimagnetism, magnetic anisotropy, domains and the magnetization process, fine particles and thin films, magnetization dynamics.
Prerequisite(s): ECE 340

ECE566 Fund of Nanotechnology
Hours 3
Nanofabrication with electron beam lithography, focused ion beam, lithography, and nanoimprint; microscopies for nanostructures, including SEM, EDX, TEM, AFM, STM; nano-scale devices based on nanostructured materials (carbon nanotubes and metal oxide nanomaterials.).
Prerequisite(s): ECE 330 or PH 253

ECE579 Digital Control Systems
Hours 3
Frequency and time domain methods in discrete time control systems; sampling of continuous-time signals, stability, transform design techniques, state variable analysis, and design techniques.

ECE580 Digital Systems Design
Hours 3
Digital systems design with hardware description languages, programmable implementation technologies, electronic design automation design flows, design considerations and constraints, design for test, system on a chip designs, IP cores, reconfigurable computing, digital system design examples and applications.

ECE581 Digital Systems Design Lab
Hours 1
Logic design and simulation via hardware description languages, use of electronic design automation tools, and CPU design.

ECE582 Comp Visn Dig Image Proc
Hours 3
Introduction to computer vision and digital image processing with an emphasis on image representation, transforms, filtering, compression, boundary detection, and pattern matching.
Prerequisite(s): MATH 355 and CS 124

ECE584 Adv Computer Architect
Hours 3
Computer architectures, computer design, memory systems design, parallel processing concepts, supercomputers, networks, and multiprocessing systems.

ECE585 Programmable Logic Controllers
Hours 3
Programmable Logic Controllers, fundamentals of ladder logic programming and PLC systems, advanced PLC operation and related topics including networking, control applications, and human machine interface design.
Prerequisite(s): ECE 383

ECE586 Embedded Systems
Hours 3
Integration of microprocessors into digital systems. Includes hardware interfacing, bus protocols and peripheral systems, embedded and real-time operating systems, real-time constraints, networking and distributed process control.
Prerequisite(s): ECE 383. Corequisite: ECE 587

ECE587 Embedded Systems Laboratory
Hours 1
Design and implementation experience with microcontrollers, interfacing, digital control systems, bus protocols and peripheral systems, real-time constraints, embedded and real-time operating systems, distribution process control.
Prerequisite(s): ECE 383 Corequisite: ECE 586

ECE588 Computational Intelligence
Hours 3
Computational Intelligence is a discipline that relies on biologically inspired computation to solve real-world problems that otherwise are infeasible or impossible to solve using classical engineering approaches. The course will cover the fundamental techniques of computational intelligence and study practical applications in real-world engineering problems.
Prerequisite(s): MATH 355 or consent of instructor.

ECE593 Special Topics
Hours 1-5
Advanced topics of a specialized nature.

ECE598 Non-Thesis Research
Hours 1-6
No description available
ECE599 Thesis Research
Hours 1-12
No description available

ECE637 Fund Solid State Engineering
Hours 3
Fundamentals of solid state physics and quantum mechanics are covered to explain the physical principles underlying the design and operation of semiconductor devices. The second part covers applications to semiconductor microdevices and nanodevices such as diodes, transistors, lasers and photodetectors incorporating quantum structures.
Prerequisite(s): PH 253

ECE638 Adv. in Integ. Circuit Process
Hours 3
Semiconductor roadmap; wafer cleaning, thin film deposition processes, advanced lithographic techniques, wet/dry etching; deep reactive ion etching, chemical mechanical planarization; ultr thin oxides; low k dielectrics, high k materials; interconnect metallization; and self assembly.
Prerequisite(s): ECE 438 or ECE 538

ECE662 Advanced Nanoscience
Hours 3
Advanced quantum physics; basics of nanotechnology, molecular and nanoelectronics; fundamentals in nanophotonics; interaction of light and matter; nanostructure characterization; bionanotechnology.
Prerequisite(s): PH 253

ECE663 Spin Electronics
Hours 3
Prerequisite(s): ECE 463 or ECE 563

ECE680 System-on-Chip Design
Hours 3
Basic issues in System-on-Chip (SOC) design, SOC hardware structures, SOC design methodologies, system-level design of complex SOCs, configurable processors, advanced topics in SOC design.
Prerequisite(s): ECE 580/581 or consent of instructor

ECE693 Special Topics
Hours 1-9
Advanced topics of a specialized nature.

ECE699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
Tim Haskew

Professor
Tim Haskew

Electrical Engineering, MS
Admission Requirements
Applicants for graduate work in electrical and computer engineering must apply for admission to the Graduate School. Each applicant must submit a statement of purpose. Regular admission may be granted to an applicant who has an electrical engineering degree from an ABET-accredited program and an overall GPA above 3.0 on a 4.0 scale. Electrical engineering graduates from non-ABET accredited programs can be awarded regular admission if they have overall GPAs of 3.0 on a 4.0 scale and an acceptable general test score on the Graduate Record Examination. Conditional admission may be granted to applicants who do not meet these requirements, such as those who have degrees in related fields or GPAs below 3.0. International students must have minimum TOEFL scores of 585 for the MS degree program and 620 for the PhD program.

Additional information is in the Admission Criteria section below.
See the Admission Criteria section of this catalog for more information.

Degree Requirements
Master of Science
The department offers MS degrees with a thesis (Plan I) and a nonthesis (Plan II) option.

Plan I requires 30 credit hours with at least 24 at the graduate level (i.e., at the 500 or 600 level). These credit hours must include at least 12 hours in a concentration area within electrical and computer engineering; 3 hours in mathematics, general engineering studies, or the sciences (physics, chemistry, or biology); nine hours in an approved elective area; and six hours of thesis research. Majoring in some areas of specialization may require specific courses in that area. The student must pass a final comprehensive examination, which typically is a presentation and defense of the thesis.

Plan II requires 30 credit hours with at least 24 at the graduate level (i.e., at the 500 or 600 level). These credit hours must include at least 15 hours in a concentration area within electrical and computer engineering; three hours in mathematics, general engineering studies or the sciences (physics, chemistry or biology); and 12 hours in an approved elective area. A graduate supervisory committee approved manuscript authored or co-authored by the candidate, and submitted to a refereed journal or conference shall constitute the University of Alabama Graduate School "culminating" or "Capstone" experience requirement for an MS Plan II degree in Electrical Engineering. In addition, the student must satisfy all the Graduate School Degree Requirements.

Master's Degrees
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master's degree:
Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating examination or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format
Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s”information for authors” or similarly titled guidelines in
conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research.

In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Electrical Engineering, Ph.D.

Admission Requirements

Applicants for graduate work in electrical and computer engineering must apply for admission to the Graduate School. Each applicant must submit a statement of purpose. Regular admission may be granted to an applicant who has an electrical engineering degree from an ABET-accredited program and an overall GPA above 3.0 on a 4.0 scale. Electrical engineering graduates from non-ABET accredited programs can be awarded regular admission if they have overall GPAs of 3.0 on a 4.0 scale and an acceptable general test score on the Graduate Record Examination. Conditional admission may be granted to applicants who do not meet these requirements, such as those who have degrees in related fields or GPAs below 3.0. International students must have minimum TOEFL scores of 585 for the MS degree program and 620 for the PhD program.
Additional information is in the Admission Criteria section below. See the Admission Criteria section of this catalog for more information.

**Degree Requirements:**

**Doctor of Philosophy**

In the electrical and computer engineering department, the PhD degree requires a minimum of 48 credit hours of coursework. This must include 27 credit hours of closely related coursework in the major area. In addition, each student’s program must include 15 hours in a minor field of electrical and computer engineering or other approved area; six hours in mathematics, general engineering studies, or science (physics, chemistry, or biology); and 24 hours of dissertation research.

Early in the program each student meets with an advisor to complete a Plan of Study. The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree.

All candidates must pass a qualifying examination and a final examination. The final examination is generally a presentation and defense of the dissertation. A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the qualifying examination.

See below for details on plan of study, admission to candidacy, and all other degree requirements.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

The maximum period in which a doctoral degree can be earned is five years, but this may be extended beyond five years, with the approval of the student’s advisor and the Graduate School.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN).
The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.
**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.
Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

**Dissertation**

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

<table>
<thead>
<tr>
<th>Final-Semester Dissertation (699) Minimum Registration Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</td>
</tr>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

**Article-Style Dissertations**

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
the principal investigator is responsible for contacting the college Human case of dissertation research that involves the use of human subjects, and approval to use human subjects in research precede the research, no is conducted ethically. University and federal policies require that review of Human Subjects is to ensure that research involving human subjects benefits for society, but it also has significant ethical questions. The Scientific research involving human subjects has produced substantial before the student can be cleared for graduation.

The Graduate School. The graduate dean must approve the dissertation submission, including information on what needs to be submitted to no longer was accepted. Consult the ETD website for details of ETD when electronic submission began to be required and paper submission

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Department of Mechanical Engineering (ME)
Two basic plans are available for earning an MS degree, one requiring a thesis (Plan I) and one not requiring a thesis (Plan II). The Plan II option is also available via distance to off-campus students. During the first semester, a student enrolled in any graduate program should form a supervisory committee and, in counsel with an advisor, submit a program of courses for the degree. Forms and information for this purpose can be obtained from the departmental office.

- Majors
  - Mechanical Engineering (MS) (p. 524)
  - Mechanical Engineering (PhD) (p. 526)

The department has active research programs in acoustics, additive manufacturing, additive repair, additive friction stir, automobile engineering, biomedical engineering, combustion, computational modeling and simulation, computational fluid dynamics and heat transfer, internal combustion engines, control systems, dynamic systems and control, IC engines, control systems, energy systems, energy conservation, fatigue and fracture mechanics, fluid mechanics, heat transfer, high strain rate mechanics, HVAC, manufacturing, materials processing and characterization, mechatronics, renewable and sustainable energy, robotics, smart manufacturing structural mechanics, sustainable manufacturing, vehicle dynamics, and vibrations.
To support research, the department maintains well-equipped laboratories for bio-robotics, controls, combustion, computational mechanics, engines, energy assessment, computer-aided automation, HVAC, manufacturing, numerical modeling, structures, vibro-acoustics and sound quality, metrology and precision engineering, and vehicles manufacturing, propulsion and space exploration, vibrations, and vehicle dynamics. The department also maintains a modularized area capable of supporting many separate projects, as well as a student machine shop. Students have easy access to modern computer facilities, including a departmental computer room.

ME501 Mech Engr Analysis I
Hours 3
Analysis of mechanical engineering systems; presentations and application of advanced analysis techniques for continuous and discrete dynamic systems.

ME503 Intermed Gas Dynamics
Hours 3
Basic equations and concepts of compressible flow; shock and expansion waves; and development of the generalized one-dimensional equations and solution of these equations for various types of flow, using computer software.

ME506 Found Thermal Power Gen
Hours 3
Thermal power systems; components, process analysis and modeling, fuels, combustion, environmental aspects, and availability analysis in steam and gas turbine plants. Examination of recent trends such as cogeneration and combined cycles.

ME509 Intermed Heat Transfer
Hours 3
Intermediate treatment of conduction, convection, and radiation heat transfer.
Prerequisite(s): ME 309 and AEM 311

ME516 Fnd Energy Conserv & Mgt
Hours 3
Analysis and management of energy use in residential, commercial, and industrial applications, including lighting, heating and cooling, controls, and energy management systems. Topics include economics, auditing, energy management, and alternative energy sources.

ME518 Princ of Combustion I
Hours 3
Combustion thermodynamics, flame temperature and equilibrium compositions, ignition processes, detonation and deflagration, diffusion flames, and similitude; assigned papers.

ME522 Reliability Maint & TPM
Hours 3
No description available

ME530 Fuzzy Set Theory & Application
Hours 3
No description available
Prerequisite(s): GES 257

ME562 Intermediate Dynamics
Hours 3
Dynamics of systems in moving coordinate frames; Lagrangian formulation and Hamilton's principle; stability and perturbation concepts for rigid body motion; motion of systems of rigid bodies in three dimensions.

ME570 Mechanical Vibrations
Hours 3
Formulation and solution of free and forced vibration problems for undamped and damped systems with single and multiple degrees of freedom. Both modal and frequency response techniques are discussed. An introduction to continuous systems is included.

ME571 Fundamentl Of Acoustics
Hours 3
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.

ME577 Advanced Linear Control
Hours 3
Modern techniques for the analysis and design of linear control systems. Matrix formulation; multivariable control systems; state-variable concepts; discrete-time systems; optimization; and statistical design methods.

ME585 Computer-Aided Design
Hours 3
Basics of computer-aided design including solid modeling, model assembly, structural and thermal analysis, mechanism simulation, and parametric/optimization study. Interactive computer programs are used to design and analyze mechanical components/devices.

ME591 Special Problems
Hours 1-3
Credit awarded is based on the amount of work undertaken.

ME594 Special Project
Hours 2-6
Planning, executing, and presenting results of an individual project involving a research design, analysis, or similar undertaking.

ME598 Non-Thesis Research
Hours 1-3
No description available

ME599 Thesis Research
Hours 1-12
No description available

ME605 Classical Thermodynamics
Hours 3
Classical macroscopic thermodynamic analysis of systems, pure substances, mixtures, and reacting systems.
ME607 Condution Heat Transfer
Hours 3
Transient, multidimensional heat conduction in various geometries, and the mathematical and numerical means to analyze them.

ME609 Convection Heat Transfer
Hours 3
Laminar and turbulent internal and external flow, natural convection, and the mathematical and numerical means to analyze them.

ME618 Princ Of Combustion II
Hours 3
Parameters of confined combustion; evaporation of fuel, velocity of flames, detonation, and chamber design; dynamic effects; and measuring techniques. Assigned papers.

ME674 Nonlinear Control Systems
Hours 3
Analysis of nonlinear systems. Nonlinear controller design techniques. State variables, phase plane analysis, describing functions, and Lyapunov stability theory.
Prerequisite(s): ME 475 OR ECE 475

ME691 Special Problems
Hours 1-6
No description available

ME694 Special Project
Hours 2-6
Planning, executing, and presenting results of an individual project involving a research design, analysis, or similar undertaking.

ME699 Dissertation Research
Hours 1-12
No description available

Faculty
Chair
K. Clark Midkiff
Professor
K. Clark Midkiff

Mechanical Engineering, MS

Admission Requirements
Descriptions of the Graduate School Admission Criteria and the College of Engineering general admission requirements are listed below. See the Admission Criteria section of this catalog for more information.

A master's degree applicant for a mechanical engineering program should normally have a baccalaureate degree in mechanical engineering from an ABET-accredited curriculum or a recognized international university. Applicants in related areas such as science and mathematics are encouraged to apply; however, prerequisite undergraduate courses will be required that will not apply for graduate credit.

Admission to the PhD program usually requires completion of a master's degree; however, exceptionally qualified applicants may be admitted directly to the PhD program from the bachelor's degree in mechanical engineering. Those students typically earn an MS degree while pursuing the PhD.

A GRE score is required for most applicants. For current undergraduate students applying to the Accelerated Master's Program at The University of Alabama, no GRE score is required. For students that have applied for the MBA program, the GMAT is accepted in lieu of the GRE for admission to any of the College's dual degree programs if the applicant has a bachelor's degree in engineering or computer science from an ABET/EAC- or ABET/CAC-accredited program with a GPA of at least 3.0. International students generally must submit TOEFL or equivalent scores in English language proficiency.

Degree Requirements
Graduate School Degree Requirements and College of Engineering MS and PhD degree requirements are detailed below. Also refer to the online Graduate Handbook on the departmental homepage.

Master's Degree Requirements

Plan I
All students on teaching or research assistantships in the department are expected to pursue the Plan I option. The following are the department's requirements for the Plan I Master's degree:

• A minimum of 24 semester hours of approved courses (excluding ME 599 Thesis Research) that together satisfy all other course requirements for the degree
• A minimum of 12 semester hours in a major area at the 500 and/or 600 level, of which 3 hours may be in a closely related supporting area;
• A minimum of 6 semester hours of mathematics taken in the Department of Mathematics or the College of Engineering
• An approved thesis and a minimum of 6 semester hours of ME 599.

Plan II
The following are the department's requirements for the Plan II Master's degree:

• A minimum of 30 semester hours of approved courses that together satisfy all other course requirements for the degree
• A minimum of 18 semester hours in a major area at or above the 500 level, of which 6 hours may be in closely related supporting areas
• A minimum of 6 semester hours of mathematics taken in the Department of Mathematics or the College of Engineering
• A comprehensive exam. (A Ph.D. proposal, as approved by the committee, can serve as a comprehensive exam.)
• Note that this degree may be completed via distance.

See the online Graduate Catalog (p. 10) for details on Plan of Study, Admission to Candidacy, and all other Degree Requirements.

Master's Degrees
The primary purpose of master's degree programs is to provide students with subject matter at an advanced level in their fields of study. Master's degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master's programs also help students become familiar with methods of independent investigation.

Program Requirements
Two plans are offered for the master's degree:
Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating examination or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements
A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit
Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses
A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit
All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy
During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis
A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.
At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

Journal Format.
A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in
A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

**Protection of Human Subjects for Research**

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

**Comprehensive Examinations**

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Application for Graduation**

Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

**Second Master’s Degree**

Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

**Mechanical Engineering, Ph.D. Admission Requirements**

Descriptions of the Graduate School Admission Criteria and the College of Engineering general admission requirements are listed below.

See the Admission Criteria section of this catalog for more information.

A master’s degree applicant for a mechanical engineering program should normally have a baccalaureate degree in mechanical engineering from an ABET-accredited curriculum or a recognized international university. Applicants in related areas such as science and mathematics are encouraged; however, prerequisite undergraduate courses will be required that will not apply for graduate credit.
Admission to the PhD program usually requires completion of a master’s degree; however, exceptionally qualified applicants may be admitted directly to the PhD program from the bachelor’s degree.

The GRE is not required for graduates from ABET-accredited programs. All other applicants must submit GRE scores. International students generally must submit TOEFL or equivalent scores in English language proficiency.

**Degree Requirements**

Graduate School Degree Requirements and College of Engineering MS and PhD degree requirements are detailed below. Also refer to the online Graduate Handbook on the departmental homepage.

**Doctor of Philosophy**

The following are the department’s requirements for the PhD degree:

- A minimum of 48 semester hours (excluding ME 699 Dissertation Research) of approved courses that together satisfy all other course requirements for the degree
- A minimum of 24 semester hours of coursework in the major technical area, of which 9 hours may be in closely related supporting areas
- A minimum of 12 semester hours in any minor technical areas included in the student’s program of study
- A comprehensive exam. A Ph.D. proposal or journal paper, as approved by the committee, can serve as a comprehensive exam.
- An approved dissertation and a minimum of 24 semester hours of ME 699.

Early in the graduate program, each student confers with a faculty adviser to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study is prepared and submitted to the Graduate School. The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree. Otherwise, a “hold” may be placed on future registration.

If later there are changes in the Plan of Study, the student simply submits an amended PhD Plan of Study to the Graduate School at the time that the form for Admission to Candidacy for Doctoral Degree is submitted. A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination.

See the online Graduate Catalog (p. 10) for details on Plan of Study, Admission to Candidacy, and all other Degree Requirements.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required
to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**
The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**
Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**
The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University.

**Graduate Credit**
A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**
All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**
Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.
Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is
Dissertation Proposal

The dissertation proposal aims to show the appropriateness, manageability, and significance of the proposed research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal's format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog's section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in a Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School's homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student's final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

**Final-Semester Dissertation (699) Minimum Registration Hours**

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Completed* means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours–Other Policies and Regulatory Bodies" on page 3 of this policy.
Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student's original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.
Department of Metallurgical and Materials Engineering (MTE)

An interdisciplinary PhD degree in materials science is also offered (see Interdisciplinary Programs (p. 28)). The graduate program in metallurgical and materials engineering allows for close association between graduate students and the faculty.

- Majors
  - Metallurgical Engineering (MS) (p. 538)
  - Materials/Metallurgical Engineering (PhD) (p. 534)

Research

Research interests of the department include thermodynamics and kinetics of molten metal processes, chemical metallurgy, metal-casting, corrosion phenomena, computer modeling of solidification and other metallurgical processes; electrodynamics of molten metals, metal matrix composites, thin-film technology, tribology, magnetic materials, microgravity effects in solidification, modeling microstructural evolution, and micromechanical behavior in cast materials, fracture mechanics, refractories, molten salts, electronic materials, thin films, and fuel cells, and phase equilibria. Facilities are available for directional and high-speed solidification, levitation melting, sputtering and chemical vapor-deposition, optical and electron microscopy, X-ray diffraction, corrosion, nanoindentation, and electrochemistry, materials characterization facilities, MEMS and thermal properties, and thermodynamic properties.

A metal-casting facility is equipped with up-to-date metal melting and casting equipment and is one of the finest facilities in the United States for teaching, research, and service to the metal-casting and processing industry. Well-qualified machinists are available for construction of highly specialized research equipment.

Computational facilities are comprehensive, ranging from workstations, minicomputers, and PC units with associated data-acquisition peripherals to access the campus mainframe equipment.

MTE519 Solidification Science
Hours 3
Overview of the principles of solidification processing, the evolution of solidification microstructure, segregation, defects and the use of analytical and computational tools for the design, understanding and use of solidification processes.

MTE539 Metallurgy Of Welding
Hours 3
Thermal, chemical, and mechanical aspects of welding using the fusion welding process. The metallurgical aspects of welding, including microstructure and properties of the weld, are also covered. Various topics on recent trends in welding research.

Prerequisite(s): MTE 380

MTE546 Macroscp Transp Mat Proc
Hours 3
Elements of laminar and turbulent flow; heat transfer by conduction, convection, and radiation; and mass transfer in laminar and in turbulent flow; mathematical modeling of transport phenomena in metallurgical systems including melting and refining processes, solidification processes, packed bed systems, and fluidized bed systems.

Prerequisite(s): MATH 238 and MTE 353

MTE549 Powder Metallurgy
Hours 3
It is an elective class for graduate students, and is aimed at providing metallurgical engineering students with in-depth knowledge of powder metallurgy technology which is one of principal technologies for manufacturing near net-shape products. This course covers all processing steps involved in transforming powders into consolidated products, starting from powder fabrication to sintering of compacted powders with emphasis on the scientific principles associated with design and operation of these processes and on the structure and physical properties of the final product. The applications and specific engineering details are used as illustration. The ultimate goal of this course is to make students be able from the materials learned to select and design the optimal processing route for any given product properties.

MTE550 Sputtered Thin Film Basics Ap
Hours 3
This course will cover fundamental technology involved in thin film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed, with special emphasis on sputtering tools. A range of thin film applications will be explored, with examples of magnetics, semiconductor, optical, and medical applications. The fundamentals of process optimization using a Design of Experiments will be taught with a test case of process optimization for the final exam.

Prerequisite(s): With permission of instructor.

MTE556 Advanced Mechanical Behavior
Hours 3
Topics include elementary elasticity, plasticity, and dislocation theory; strengthening by dislocation substructure, and solid solution strengthening; precipitation and dispersion strengthening; fiber reinforcement; martensitic strengthening; grain-size strengthening; order hardening; dual phase microstructures, etc.

Prerequisite(s): MTE 455

MTE562 Metallurgicl Thermodyn
Hours 3
Laws of thermodynamics, equilibria, chemical potentials and equilibria in heterogeneous systems, activity functions, chemical reactions, phase diagrams, and electrochemical equilibria; thermodynamic models and computations; and application to metallurgical processes.

Prerequisite(s): MTE 362
MTE567 Strengthening Mechanisms in Materials  
Hours 3  
Mechanisms and micromechanics of strengthening in engineering materials. This course covers the physical phenomena that contribute towards high mechanical strength in engineering materials. Principles for designing high strength materials will be addressed.  
Prerequisite(s): MTE 455 or equivalent: or permission of instructor

MTE579 Advanced Physical Metallurgy  
Hours 3  
Graduate-level treatments of the fundamentals of symmetry, crystallography, crystal structures, defects in crystals (including dislocation theory), and atomic diffusion.

MTE583 Adv Structure Of Metal  
Hours 3  
Graduate-level treatments of symmetry, crystallography, crystal structures and defects in crystals. Application of analytical techniques to study crystal structures and textures in materials.

MTE585 Materls At Elevd Temps  
Hours 3  
Influence of temperatures on behavior and properties of materials.

MTE587 Corrosion Science & Engr  
Hours 3  
Fundamental causes of corrosion problems and failures. Emphasis is placed on tools and knowledge necessary for predicting corrosion, measuring corrosion rates, and combining this with prevention and materials selection.  
Prerequisite(s): MTE 271 and CH 102 or CH 118

MTE591 Special Problems  
Hours 1-4  
Advanced work of an investigative nature. Credit awarded is based on the work accomplished.

MTE592 Special Problems  
Hours 1-3  
Advanced work of an investigative nature. Credit awarded is based on the work accomplished.

MTE595 Seminar Senior Thesis  
Hours 1  
Discussion of current advances and research in metallurgical engineering; presented by graduate students and the staff.

MTE596 Seminar  
Hours 1  
Discussion of current advances and research in metallurgical engineering; presented by graduate students and the staff.

MTE599 Thesis Research  
Hours 1-12  
No description available

MTE643 Magnetic Materials and Magnetic Recording  
Hours 3  
This course provides knowledge on basic magnetism and magnetic materials of various types, and also introduces the applications. Origin of magnetism, ferro-magnetism, anti-ferro-magnetism, ferrimagnetism, hard- and soft-magnetic materials, spintronics, magnetic recording, magnetic random access memory (MRAM), spin-transfer-torque MRAM, spin transistor and Optical recording.  
Prerequisite(s): MTE 271 and permission of instructor.

MTE655 Electron Microscopy Matl  
Hours 4  
Topics include basic principles of operation of the transmission electron microscope, principles of electron diffraction, image interpretation, and various analytical electron-microscopy techniques as they apply to crystalline materials.

MTE670 Scanning Electron Microscopy  
Hours 3  
Theory, construction, and operation of the scanning electron microscope. Both imaging and x-ray spectroscopy are covered. Emphasis is placed on application and uses in metallurgical engineering and materials-related fields.

MTE680 Advanced Phase Diagrams  
Hours 3  
Advanced phase studies of binary, ternary, and more complex systems; experimental methods of construction and interpretation.

MTE684 Fund Solid State Engineering  
Hours 3  
Fundamentals of solid state physics and quantum mechanics are covered to explain the physical principles underlying the design and operation of semiconductor devices. The second part covers applications to semiconductor microdevices and nanodevices such as diodes, transistors, lasers, and photodetectors incorporating quantum structures.  
Prerequisite(s): MTE 271 or ECE 332

MTE687 Microstructure Evolution of Materials  
Hours 3  
The course will cover the fundamentals and state-of-the-art techniques used in mathematical modeling and computer simulation of microstructure formation and control during the solidification and solid state transformations of materials. The concepts and methodologies covered in this course for net-shape casting and ingot remelt processes can be applied, with some modifications, to model other materials processes such as welding, deposition, and heat treatment processes. Modeling and simulation of microstructure evolution requires complex multi-scale computational areas, from computational fluid dynamics macroscopic modeling through mesoscopic to microscopic modeling, as well as strategies to link various length-scales emerged in modeling of microstructural evolution.

MTE691 Special Problems  
Hours 1-3  
Credit awarded is based on the amount of work undertaken.

MTE695 Seminar  
Hours 1  
Presentations on dissertation-related research or on items of current interest in materials and metallurgical engineering.
Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for
each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN).

The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School's criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. **All doctoral programs:** Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. **PhD Programs Only:** A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School.
as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student's doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School. The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

**Dissertation Proposal**

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student...
formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below.

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the <em>University Academic Calendar)</em></td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

“Completed” means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1. International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2. The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry


• Civil Engineering
• Computer Science
• Economics
• Education (all departments)
• Electrical and Computer Engineering
• Finance
• Geological Sciences
• Health Education and Promotion
• Management
• Management Science
• Marketing
• Mechanical Engineering
• Metallurgical and Materials Engineering
• Physics
• Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student's original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

• In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
• connecting language to bridge each study to the next; and
• a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline's style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Metallurgical Engineering, MS
Admission Requirements
Admission requirements are outlined in the Admission Criteria section of this catalog.

See the Admission Criteria section of this catalog for more information.

Degree Requirements
Plan I (thesis) is the standard MS degree plan. However, in exceptional cases, a student who has the approval of his or her supervisory committee may follow Plan II (non-thesis). A student who believes there are valid reasons for using Plan II must submit a written request detailing these reasons to the department head. No later than mid-term of the first semester in residence.

All graduate students, during the first part and the last part of their programs, are required to satisfactorily complete MTE 595 Seminar Senior Thesis (first part) and MTE 596 Seminar (last part). This required credit is in addition to the other degree requirements. Additional information is in the Degree Requirements section of this catalog.
Master's Degrees

The primary purpose of master’s degree programs is to provide students with subject matter at an advanced level in their fields of study. Master’s degrees are designed to assist students either to continue their graduate studies or to meet the goals of their professions. In most cases, master’s programs also help students become familiar with methods of independent investigation.

Program Requirements

Two plans are offered for the master’s degree:

Plan I. Candidates for the master’s degree under Plan I must earn a minimum of 24 semester hours of credit in coursework plus earn a minimum of 6 additional hours of thesis research hours, for a total of 30 hours.

Plan II. Candidates for the master’s degree under Plan II must earn a minimum of 30 semester hours of coursework credit and pass the comprehensive examination or complete a culminating or “capstone experience” as described under the Comprehensive Examinations section below.

Both plans require a minimum of 18 semester hours in the major subject. With the approval of the major department, the remainder of the coursework may be completed in either the major or a related field.

In some divisions and in many departments of the University, candidates are required to do their work under Plan I. Candidates working under Plan II may be required to participate successfully in seminar or problem courses that will give them an acquaintance with the methods of research and an appreciation of the place and function of original investigation in the field.

Residency Requirements

A student’s program at the master’s level must provide sufficient association with the resident faculty to permit individual evaluation of the student’s capabilities and achievements.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

400-Level Courses

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

Time Limit

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

Admission to Candidacy

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

Thesis

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

Article Style vs. Journal Format

Article Style.

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity,
each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master's degree.

Journal Format.

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed. All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.

As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations

In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master's degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a "policy and practice" paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master's/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation

Each candidate for a master's degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master's Degree

Six (6) semester hours of eligible credit from one master's degree at The University of Alabama may be applied to the requirements for a second master's degree, but only if the department of the second master's agrees to the courses in the plan of study. Any hours from the previous master's degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. ***Please note that if a student double counts six hours between two master's degrees, no hours may double count toward any additional master's degrees.

College of Human Environmental Sciences

Department of Clothing, Textiles, and Interior Design (p. 542)
Department of Consumer Sciences (p. 543)
General Degree Requirements

The following is a brief summary of requirements; students should confer with their department heads for additional information. A program plan for completing course requirements for the master’s degree must be approved by the student’s major advisor and committee and filed in the office of the dean of the College of Human Environmental Sciences no later than the beginning of the second semester of graduate study. Program plans are based on undergraduate preparation, previous experiences, and expressed objectives for graduate study. Students pursuing the Master of Science in Human Environmental Sciences can specialize in one of the following areas: clothing, textile, and interior design; consumer sciences; human nutrition; human development and family studies; and general studies in human environmental sciences. Students may complete degree requirements following Plan I (thesis) or Plan II (nonthesis).

Plan I (thesis)

All Plan I students must earn a minimum of 24 semester hours of credit, including HES 509 Research Methods, one course in statistics, and 18 hours in courses in the area of specialization and in areas supporting the specialization. In addition, all Plan I students must complete at least six semester hours of thesis research and write a thesis. The format of the thesis may vary, depending on the advice and consent of the thesis committee. A final oral examination is required upon completion of the thesis, and a manuscript of publishable quality based on the thesis research is expected of each Plan I degree candidate.

Plan II (nonthesis)

Students pursuing the Master of Science in Human Environmental Sciences degree under Plan II complete 30 hours of coursework, including HES 509, and a final evaluation as determined by departmental guidelines.

Information on all other degree requirements is in the Degree Requirements (p. 20) section of this catalog.

Repeating Courses in Selected Programs

Students majoring in Human Nutrition, Consumer Sciences, or Human Development and Family Studies are permitted to repeat a course in which a grade of “C” was earned. The option to repeat a course is not available to HES students in any program other than these three. Both grades earned will be recorded on the transcript and will be included in the computation of the GPA. Only one attempt will count in the Plan of Study, and the second attempt will not reduce the minimum number of hours required for the degree.

The Graduate Council approved the above policy as a waiver to the usual policy on not being able to repeat a course in which a “C” was earned. The policy’s effective date was September 25, 2007.

Admission Requirements

The Master of Science degree offered through the College of Human Environmental Sciences reflects a diverse range of missions and objectives. Enrollment in all specializations is limited and competitive. Admissions are supervised by committees of the graduate faculty in each of the specializations. General application and admission requirements are outlined in the Admission Criteria and Application (p. 17) sections of this catalog. Students with deficiencies in undergraduate preparation may be required to complete designated undergraduate requirements before admission to the program.

See the Admission Criteria section of this catalog for more information.

HESS508 Intro Research Interact Technl

Hours 3

This course is an introductory course designed to familiarize students with methods of research appropriate for conducting research either using web-based technology or addressing issues around technology. Qualitative and quantitative approaches will be discussed.

HESS509 Research Methods

Hours 3

This course is an introduction to scientific methods appropriate for human sciences. It is designed to acquaint students with types of research, methods, and materials necessary for scientific inquiry and to provide students with practical steps to conduct and understand scientific research. Emphasis will be placed on quantitative, qualitative, and mixed methods designs appropriate for research in human sciences.

HESS525 Workforce Development

Hours 3

This course is included in the Masters in Human Environment Science curriculum in order to give participants an additional mechanism for studying quality, health and safety, or conflict management and leadership methods, and thinking about how they can be applied through the process of teaching these methods to a workforce.

Prerequisite(s): HES 506, HES 507, & HES 508

HESS551 Seminar: Sport Facilities and Event Management

Hours 3

This course is designed for sport professionals desiring to increase their knowledge and understanding of Sport Facilities and Event Management.

Prerequisite(s): Graduate student in Human Environmental Sciences

HESS552 Trends And Issues in Sports Business Management

Hours 3

In-depth analysis for sport professionals to study and review management and leadership strategies in various sport organizations.

Prerequisite(s): Graduate student in Human Environmental Sciences.

HESS554 Management and Administration in Sports Business Management

Hours 3

This course is designed for sport professionals desiring to increase their knowledge and understanding of management and administration issues in the sport industry.

Prerequisite(s): Graduate student in Human Environmental Sciences

HESS559 International Strategies in Sports Business Management

Hours 3

This course is designed for sport professionals desiring to increase their knowledge and understanding of management and administration issues in the sport industry.

Prerequisite(s): Graduate student in Human Environmental Sciences
**HES560 Sports Business Management**  
Hours 3  
This course is designed for student/prospective sport industry professional desiring to increase their knowledge and understanding of current issues in sports business management and the sport industry.  
Prerequisite(s): Admission to the Sports Business Management Program or prior approval from the program director.

**HES561 Marketing, Sales, and Public Relation in Sports Business Management**  
Hours 3  
This course is designed for sport professionals desiring to increase their knowledge & understanding of marketing, sales and public relations issues in the sport industry.  
Prerequisite(s): Graduate student in Human Environmental Sciences

**HES563 Finance and Accounting in Sports Business Management**  
Hours 3  
This graduate course is designed for sport professionals desiring to increase their knowledge and understanding of financial and accounting issues in the sport industry.  
Prerequisite(s): Graduate student in Human Environmental Sciences

**HES565 Legal and Ethical Issues in Sports Business Management**  
Hours 3  
This course is designed for student/prospective sport industry professional desiring to increase their knowledge and understanding of current legal and ethical issues in sports business management and the sport industry. This class (HES 565) uses Blended (Hybrid) Delivery Methods of readings, classroom presentations and online and residential exams to present critical topics.  
Prerequisite(s): Graduate student in Human Environmental Sciences

**HES570 Fellowship in Sports Business Management**  
Hours 3  
Under the supervision of an approved and qualified sports business management professional, the graduate student will experience activities related to job specific tasks in sports business management. This full-time work experience/fellowship in the sport industry must take place in a professional organization, in which the student has been selected and offered a fellowship.  
Prerequisite(s): Graduate student in Human Environmental Sciences

**HES590 Sp Prob Human Envir Std**  
Hours 3-6  
This course is for students who desire to investigate a topic in Conflict Mediation, Management, and Negotiation (CMMN) or to complete the Capstone project.

**HES591 Special Problems in Human Sciences**  
Hours 3  
This course is open to qualified graduate students who will study special problems in human sciences.

**HES592 Special Problems in Sports Business Management**  
Hours 3  
Under the supervision of an approved and qualified sport management professional, the graduate student will experience activities related to job specific tasks in sport management. This full-time work experience/fellowship in the sport industry must take place in a professional organization, in which the student has been selected and offered a fellowship.  
Prerequisite(s): Graduate student in Human Environmental Sciences

**HES598 Non-Thesis Research**  
Hours 1-6  
Development of a professional paper on a topic selected by the student and approved by the graduate committee.  
Prerequisite(s) with concurrency: CSM 562 and HES 509 and CSM 564 and CSM 572

**HES595 Special Topics In Hes**  
Hours 3  
Critical analysis of current issues in selected areas of human environmental sciences. May be taken up to a total of four times.

**Faculty**

**Dean**  
Milla Boschung

**Associate Dean for Graduate Studies, Assessment and Accreditation**  
Mary Kay Meyer

**Associate Dean for Graduate Studies, Research**  
Stuart Usdan

**Professors**  
Milla Boschung  
Stuart Usdan

**Assistant professor**  
Wanda Burton

**Department of Clothing, Textiles, and Interior Design**

The General Studies Human Environmental Sciences (MS) (p. 566) focused area of study in clothing, textiles, and interior design provides preparation for careers in higher education, business and industry, and government services, and for admission to doctoral programs in clothing, textiles, interior design, and related fields.

CTD546 Cult Dynam Apparel Text  
Hours 3  
Examination of the impact of cultural dynamics on apparel and textile production and marketing.

CTD548 History Of Costumes  
Hours 3  
Study of costume development from prehistoric to modern times; includes cultural forces in relation to the evolution of costume.
CTD549 Social Psychological Aspects of Clothing
Hours 3
Application of behavioral science theories to clothing.

CTD561 Quality Control for Textiles
Hours 3
Quality Assurance for Textiles offers the opportunity for graduate fashion retailing and apparel design students to develop a deeper and broader understanding of textile materials. Offered during the fall semester only, the class meets with the lectures and labs of CTD 461.
Prerequisite(s): CTD 261

CTD581 Practicum Cloth & Text
Hours 1-3
Supervised experience in a business related to the major field of study.

CTD590 Spec Prob Clothing
Hours 1-4
Independent investigation of selected topics in clothing.

CTD591 Spec Prob Interior Design
Hours 1-4
Independent investigation of selected topics in interior design.

CTD592 Spec Prob In Textiles
Hours 1-4
Independent investigation of selected topics in textiles.

CTD593 Readings Cloth Textiles
Hours 3
Comprehensive review and critical evaluation of the literature in clothing and textiles.

CTD594 Readings Interior Design
Hours 1-4
Comprehensive review and critical evaluation of the literature in interior design.

CTD595 Ctd Research I
Hours 3
Discussions emphasizing contemporary issues, trends, relevant research, professional problems, and interests of students.

CTD596 Research II Clothing & Textile
Hours 3
Survey and evaluation of current research in clothing and textiles.

CTD599 Thesis Research
Hours 1-6
No description available

Instructors
Davis, Babs
Faulkner, Cassandra M.
Lee, Michelle
Robinson, Paula H.
Taylor, Brian

Adjuncts
Carol Kendrick
Silke Suhr
Darryl Thornton

Assistant Professors
Kissing, Beverly A.
Peaslee, John E.
Maki, Kristin
Tong, Michelle
Foster, Shirley P.
Wimberley, Virginia S.
Sickler, Stephanie

Office Staff
Donna McGee

Faculty
Chair
Foster, Shirley P.

Associate Professor
Koonts, Marcy L.
Thompson, Amanda

Department of Consumer Sciences

Consumer Sciences, MS (p. 547)
Consumer Conflict Management Certificate (p. 547)

CSM500 Personal Insurance Plan & Mgt
Hours 3
Survey of the myriad of personal risks facing consumers and families throughout the life cycle. An emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.
Prerequisite(s): CSM 204

CSM501 Consumer Protection
Hours 3
Study of laws and agencies affecting the consumer’s well-being, sources of consumer information, and discussion of current consumer issues.

CSM502 Readings in Consumer Sciences
Hours 3
To create an awareness of foundational research and current developments within the field of consumer economics among graduate students.

CSM504 Personal Investment Plan & Mgt
Hours 3
Focus on personal investing in marketable securities. Covers the basics of investing, including detailed definitions of investment terms, descriptive materials on how securities are purchased and sold, theoretical models of security valuation and practical examples of how to calculate growth rates.
Prerequisite(s): CSM 204
CSM505 Public Policy
Hours 3
A detailed analysis of U.S. public policy, recognizing the broader social and economic impacts of selected policies. Students will develop a better understanding of how and why specific policies are implemented and assess the strengths and weaknesses of different policy structures.

CSM506 Consumer Mgt Quality Assurance
Hours 3
Provides in-depth coverage of the primary theories and methods necessary for quality assurance in a wide range of organizational settings.

CSM507 Consumr Qual Mgt Facilitn Skil
Hours 3
Provides a comprehensive study of facilitation skills necessary to lead an organization in continuous improvement.

CSM508 Consumer Quality Mgt Systems
Hours 3
Provides an in-depth analysis of management systems as a method of organizing and leading business, educational, and health care institutions. Covers the primary issues related to management systems.

CSM510 Pers Retire Plan Empl Benefits
Hours 3
Fundamentals of personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 204

CSM511 Analysis in Quality Control
Hours 3
This course introduces quantitative tools and concepts that are useful for process analysis and quality control. Conceptual understanding and data analysis using software is required and emphasized throughout the course. Topics include: Statistical and graphical data summaries, inferences about process quality, control charts for measurement and attribute data, process capability analysis, monitoring tools, experimental design, Taguchi methodology, and acceptance sampling.

CSM512 Personal Investment Planning & Management II
Hours 3
This course expands upon the content of CSM 404/504, adding a number of new concepts that are relevant to understanding the management of investments for family and individual goal attainment. Lectures, readings, case studies, and problem sets are designed to help students in preparing for the Investment Planning section of the Certified Financial PlannerTM examination.
Prerequisite(s): CSM 504

CSM513 Customer Service Management
Hours 3
Course provides an in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Course analyzes consumer needs, complaints, and education.

CSM514 Personal Estate Planning
Hours 3
Techniques of personal estate planning within the family life cycle.
Prerequisite(s): CSM 204

CSM515 Consumer Communications
Hours 3
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communications programs.

CSM516 Addiction and Dysfunction in Money Management
Hours 3
CSM 424/524 is an exploration of addictions and dysfunctions related to managing money and finances and a brief guide for changing dysfunctional behavior related to money. The course does not provide training in diagnosing, but rather emphasizes describing behavior.

CSM517 Conflict Resolution for the Workplace
Hours 3
This course provides skill building and practical methods for handling organizational and personal conflicts. Appropriate for the student who has received no formal preparation in managing conflict, and also for the professional who is educated in conflict theory and negotiation strategy, but needs grounding in basic interpersonal communication and management skills, such as rapport building, empathic listening, behavior modeling, reframing, problem solving, and decision making.

CSM518 Emotional Intelligence: The Personal Qualities of the Negotiator
Hours 3
This course teaches students to accurately identify and express emotions, and to develop and improve the emotional intelligence skills essential to managing conflict successfully. Students are directed through a series of self-evaluations to determine their current skill levels, learn the characteristics of specific skills, and apply and model the new learning. Students learn to break the habit of emotional reactivity and to model emotional proactiveness.

CSM519 Processes of Negotiation
Hours 3
This course deepens students' understanding of negotiation skills that can be used across a variety of settings. Students explore best practices in negotiation and learn to identify and apply optimal strategies. The dynamics of negotiating across diverse cultures and contexts are also examined.

CSM520 Family & Consumer Law for Non-Lawyers
Hours 3
The study of family law for non-lawyers. Topics include marriage, divorce, custody, child support, alimony and property division, and the role of alternative dispute resolution in the family law setting, including mediation, private judges, and collaborative practice. Students will acquire a general understanding of legal terms, resources, and the legal system and its adversarial proceedings.

CSM521 Psychology Of Money
Hours 3
Innovative study of financial behaviors and their relationship to money management with emphasis placed on both theory and its application.

CSM522 Developing The Leader Within
Hours 3
An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.
CSM547 Digital Resources
Hours 3
Online class providing students with technological skills to live and work in a digital environment. Asynchronous class trains students in the use of computers, Internet, Web 2.0, mobile devices and other digital tools. Aids graduate students in any major with skills to enhance their career paths.

CSM549 Professional Social Networking
Hours 3
The course content is focused on current genre of communication tools identified as ‘social media’. Content includes an overview of the origins of the current social media tools, definitions and terminology, and case studies of current uses of social media in specific settings. The social media tools selected are examined as discrete units and as components of larger initiatives within organizations. Connections of these tools to the functions of various organizations and individual professional initiatives are explored; the applications presented are those within large organizations, smaller groups and individual, professional offices. Popular press items on these tools as well as research foundations are included as background for the selection and use of social media. Case studies from a range of disciplines will be used as primary instructional tools. The precise suite of tools is revised each term.
Prerequisite(s): Good standing in The Graduate School and/or permission of instructor.

CSM550 Consumer Economics
Hours 3
Examination of the role of the consumer in the economy; economic analysis of market and non-market consumption activities, incorporating relevant social, psychological, political, and ecological considerations.

CSM551 Consumer Demographics
Hours 3
This course will focus on developing students’ ability to understand consumer demographics and impacts from these demographic changes. The course will cover basic concepts and measurement issues of demography as it relates to consumer and families. This class will also develop student’s ability to adapt to changing trends in a dynamic world. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): N/A
Prerequisite(s) with concurrency: N/A

CSM554 Personal Income Tax Mgt Plang
Hours 3
Analysis of personal income tax management and planning as it relates to consumers and families throughout the life cycle.
Prerequisite(s): CSM 204

CSM555 Consumer Analytics Methods
Hours 3
This course introduces research methods with an emphasis on non-experimental research designs. Examples and exercises are drawn from real-world research applications that inform consumer behavior and policy. Students learn how to execute the methodologies using software used by consumer analysts in consumer research settings. Topics include: research design, sampling, data management, descriptive statistics, data visualization, statistical inference, simple linear regression, and multivariate regression.

CSM558 Spreadsheets in Fin. Decisions
Hours 3
Focus is on developing a working knowledge of Microsoft Excel as it may be used to analyze problems related to personal financial planning with an emphasis on life-cycle planning and computer literacy.
Prerequisite(s): CSM 204 or RHM 474 or AC 210

CSM559 Tech of Counsl in Cons Science
Hours 3
Introduces students to basic interactional interviewing skills and strategies. Course is beneficial to those entering the fields of financial planning, business, management, sales or any commercial activity that involves interpersonal communication. Students who plan to supervise and manage others would benefit by expanding theory with practical application. Students with career goals involved counseling families, couples and individuals regarding life decisions will benefit from this course.
Prerequisite(s): CSM 204

CSM560 Finan Plan Case Study Capstone
Hours 3
A systems approach to financial management for individuals and families from the perspective of planner/counselor. Focuses on analytical techniques. Emphasizes identification and development of strategies for meeting client goals.
Prerequisite(s): CSM 558

CSM561 Managing in a High Performance Organization
Hours 3
This course will provide an interactive exploration of management skills that enable an individual to effectively communicate, build and lead teams, delegate, make presentations and manage priorities to achieve success.

CSM562 Cognition Strategy & Technology
Hours 3
This course lays some of the cornerstones of the program emphasis in interactive technology, guiding students in the development of their philosophy and understanding about the use of technology in teaching and learning as well as human interactions. Topics include synchronous vs. asynchronous learning, paradigm shifts in how people learn, and a review of the theory serving to underpin this topic.

CSM564 Digital Tools
Hours 3
This course was designed just for majors in the IT specialization in GHE. The focus of this course is the use of a broad range of digital tools, including the skills considered core skills required to function in the asynchronous environment of this online degree program. Building a collaborative environment (a course goal) requires this specific skill set. Computer-mediated communications applied to collaborative, web-based environments are emphasized.
CSM566 Multimedia Design Development
Hours 3
Reviews the basic schools of thought and major theorists in the field of electronic design and development. Advanced development tools in the context of actual design and development projects. Students will combine an understanding of the theory of design and development with advanced tools.
Prerequisite(s) with concurrency: CSM 564

CSM568 Emerging Technologies
Hours 3
New technologies will be introduced as emerging tools for personal productivity, training-education, and marketing customer service areas and examined in terms of policy, implement within organizations and applications within the various fields of the students. Ethics, privacy and security will also be addressed.

CSM570 Coor Delivry Info W/Digtl Tech
Hours 3
An ever-growing range of options are available for delivering information via digital technologies, including web-based tutorials, online courses, webinars, synchronous and asynchronous communication media, multimedia presentations, Web 2.0 technologies, and wireless handheld devices. The tools needed to coordinate these technologies will be addressed from the viewpoint of developer and content manager.
Prerequisite(s) with concurrency: CSM 564

CSM572 Needs Assessment Plan & Evaltn
Hours 3
Course outcomes include demonstrated understanding of program evaluation strategies based on a systems theory model for comprehensive planning, formative and summative evaluation. These evaluation activities focus on e-learning environments and applications in a wide-range of settings. Planning models are also introduced around which projects and action research can be structured.

CSM574 Technology Privacy & Security
Hours 3
This course is an introduction to some of the basic issues confronting technology users, especially those in today’s workplaces. It is designed for entrepreneurs, small business owners and managers, freelance consultants, and anyone who works with technology but in organizations which may or may not have IT departments. It is also appropriate for those working remotely at home or concerned about privacy and security in personal technology use. The topics include threats to computer and communication systems and privacy concepts; basic security defense techniques; web and network security issues; portable device security; operating systems security issues; email security; and security issues for home networks and smaller work environments such as privately-held companies and non-profit groups.

CSM575 Entrepreneurship In Hes
Hours 3
Sound advice and vital practical help on developing an idea into a business and the different aspects of managing a home-based or small business. Examines each segment of creating and managing a small business.

CSM576 Collaborative Tools for Project Management
Hours 3
This course is an introduction to the use of collaborative tools for project management. Many professionals use collaborative tools but this class emphasizes their use specifically for project management, as using collaborative tools for project management is emerging as a managerial skill set. In today’s global economy, the ability to work virtually is paramount, because organizations are increasingly distributed, with remote members and locations. Just knowing how to use virtual communication tools does not equate specifically to project management. Communication techniques in these organizations are no longer the same as they were when all members were located in the same building. Traditional managerial communication techniques do not apply to distributed teams, where in-person meetings may occur but are limited. Further, even employees who are geographically co-located need to communicate and plan using virtual means. Online collaboration tools provide opportunity for project success and will be covered, using examples and case studies from project management. Social media tools offer exciting opportunities to improve team communication, efficiency, and success and will be discussed. While online tools and strategies may be familiar to enrollees, this class focuses on the particular use of these for project management. Project management is significantly different from even usual business communications, something emphasized in the materials provided and the learning activities used in the class.

CSM580 E-Commerce@Ches
Hours 3
Sound advice and vital practical help on developing an idea into a business on the internet. Addresses the different aspects of designing a web site, internet marketing, the role of search engines, measuring the effectiveness or an internet strategy.

CSM581 Practicum
Hours 3
Supervised experience in a related business, industry, or social agency.

CSM582 Non-thesis Research
Hours 3
Course focuses on preparation and planning for the Capstone Project, including examination and analysis of collateral research studies. Students will prepare articles for submission to a referred journal or presentation at a professional conference or online module.
Prerequisite(s) with concurrency: CSM 564

CSM583 Spec Prob in Inter Tech
Hours 3-6
This is the Capstone Project Plan II (for the IT specialization), featuring exploration of a special problem in an area of graduate study.
Prerequisite(s): CSM 564

CSM586 Principled Negotiation
Hours 3
An in-depth study of principled, interest-based negotiation, which replaces adversarial approaches with problem-solving. Students formulate a personal strategy of thoughtful introspection with the goal of satisfying interests on all sides of a conflict and strengthening relationships among conflict partners.
CSM590 Spec Prob Consmr Affairs
Hours 2-6
No description available

CSM591 Spec Prob Cons/Fam Econ
Hours 3
This course gives the graduate student the opportunity to work directly with a professor in the graduate program to explore a problem related to technology in Consumer Sciences.

CSM592 Prob Fam Fin Plan Couns
Hours 2-6
No description available

CSM593 Special Problems in Technology
Hours 3
This course is open to qualified graduate students who will study special problems in technology.

CSM599 Thesis Research
Hours 1-6
No description available

CSM650 Outcomes Research in Population Health
Hours 3
This course examines the methods utilized in the design, implementation, and evaluation of research studies implemented in a healthcare setting. In this course, you will explore various research designs that can be used to evaluate studies with outcomes at the individual and organizational level. Both naturalistic (or observational) and experimental designed will be covered throughout the course. Various analytic approaches that are appropriate to examine the design, implementation, and evaluation of studies in the medical setting will be applied. Furthermore, students will be expected to develop a research protocol that demonstrates the mastery of core competencies obtained throughout the semester.

Faculty
Dean
Boschung, Milla D.

Chair
Nielsen, Robert

Professor
Wright, Kenneth E.

Assistant Professor
Choi, Shinae
Cook, Reuben
Fulmer, Caroline S.
Hale, Michelle
Kim, Kyoung Tae
Lewis, Melvin
McGahey, Courtney L.
McMath, Juanita

Pak, Tae-Young
Pentecost, Eve
Reddcox, Kym
Shin, Su
Wilmarth, Melissa

Instructor
Stebbins, Rich

Consumer Conflict Management Certificate

This 15-credit hour certificate program teaches ways to manage consumer, workplace, and personal conflict through the use of effective communication, emotional intelligence skills, and cooperative problem solving. From a foundation in conflict theory, students learn strategies to prevent, reduce, and resolve conflict with the goal of preserving, and in many cases improving, relationships. All 15 hours required for the certificate are offered online and may be applied toward a 30-hour Master of Science in Consumer Sciences or General Human Environmental Sciences.

Prospective certificate students are admitted by The University of Alabama Graduate School and must meet all Graduate School admission policies and deadlines.

The required (3 credit hour) courses for the certificate are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSM 525</td>
<td>Conflict Resolution Workplace</td>
<td>3</td>
</tr>
<tr>
<td>CSM 527</td>
<td>Emotional Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CSM 528</td>
<td>Processes of Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>CSM 559</td>
<td>Techniques of Counseling in Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CSM 586</td>
<td>Principled Negotiation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Master's Degree Option

You may apply all 15 hours of coursework from the graduate certificate in Consumer Conflict Management toward the Master of Science degree in Human Environmental Sciences (General Studies). To complete the master course of study, you would need to take only 9 additional hours of coursework from the area of Consumer Conflict Mediation, Management, & Negotiation in addition to 3 hours of Research Methods and 3 hours of Practicum/Capstone Experience for a total of 30 hours.

Consumer Sciences, MS

The Master of Science in Consumer Sciences is a 30-credit-hour degree program that offers advanced study in two complementary concentration areas.

Consumer Economics Concentration

The Consumer Economics concentration offers an applied microeconomics approach to understanding consumers in home and market environments. This concentration prepares students to continue study in a doctoral program or employment in a research-oriented setting investigating consumer decision-making, personal finance, and related family and consumer policy. This research-oriented concentration requires the successful completion of a thesis.
Family Financial Planning and Counseling Concentration

The Family Financial Planning and Counseling concentration focuses on the knowledge and skills necessary for a career in financial planning and related careers. The curriculum fulfills the educational requirements to sit for the CFP® certification exam that leads to the CERTIFIED FINANCIAL PLANNER™ certification registered with the Certified Financial Planner Board of Standards, Inc. Students who successfully complete the concentration may sit for the CFP® certification exam that leads to the CERTIFIED FINANCIAL PLANNER™ certification. The concentration also fulfills the educational requirements to sit for the Accredited Financial Counselor® exam offered by the Association for Financial Counseling and Planning Education®. Successful completion of a capstone project, practicum, or portfolio is required.

Consumer Sciences, MS

Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HES 509</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CSM 560</td>
<td>Finan Plan Case Study Capstone</td>
<td>3</td>
</tr>
<tr>
<td>ST 550 or</td>
<td>Stat Methods In Res I</td>
<td>3</td>
</tr>
<tr>
<td>CSM 558</td>
<td>Spreadsheets in Fin. Decisions</td>
<td>3</td>
</tr>
<tr>
<td>ST 551 or</td>
<td>Stat Methods In Res II</td>
<td>3</td>
</tr>
<tr>
<td>CSM 554</td>
<td>Personal Income Tax Mgt Plang</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Requirements

21 Hours

Students graduating from this program must complete a culminating experience. Students in Consumer Economics complete a thesis (6 credit hours) and a comprehensive exam. Students in Family Financial Planning and Counseling may choose from a capstone project (0-3 credit hours), a practicum (0-3 credit hours), or a comprehensive exam. Students’ plans are approved and supervised by their graduate committee and/or program director.

Consumer Economics Concentration

Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSM 599</td>
<td>Thesis Research</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Choose 15 hours from the following:

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</thead>
<tbody>
<tr>
<td>CSM 501</td>
<td>Consumer Protection</td>
<td>3</td>
</tr>
<tr>
<td>CSM 502</td>
<td>Readings in Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CSM 505</td>
<td>Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>CSM 506</td>
<td>Consumer Mgt Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>CSM 507</td>
<td>Consumr Qual Mgt Facilitn Skil</td>
<td>3</td>
</tr>
<tr>
<td>CSM 508</td>
<td>Consumer Quality Mgt Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSM 515</td>
<td>Customer Service Management</td>
<td>3</td>
</tr>
<tr>
<td>CSM 525</td>
<td>Conflict Resolution Workplace</td>
<td>3</td>
</tr>
<tr>
<td>CSM 550</td>
<td>Consumer Economics</td>
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</tr>
<tr>
<td>CSM 551</td>
<td>Consumer Demographics</td>
<td>3</td>
</tr>
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<td>Principled Negotiation</td>
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Family Financial Planning and Counseling Concentration

Core Courses

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<tbody>
<tr>
<td>CSM 500</td>
<td>Personal Insurance Plan &amp; Mgt</td>
<td>3</td>
</tr>
<tr>
<td>CSM 504</td>
<td>Personal Investment Plan &amp; Mgt</td>
<td>3</td>
</tr>
<tr>
<td>CSM 510</td>
<td>Pers Retire Plan Empl Benefits</td>
<td>3</td>
</tr>
<tr>
<td>CSM 520</td>
<td>Personal Estate Planning</td>
<td>3</td>
</tr>
<tr>
<td>CSM 559</td>
<td>Techniques of Counseling in Consumer Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives in area of specialization of which 3 hours may be a practicum

Total Hours 21

Department of Health Science

- Health Studies (MA) (p. 556)
- Health Education & Promotion (MPH) (p. 550)
- Health Education & Promotion (PhD) (p. 551)

[object Object]
HHE506 Tech Research In Health
Hours 3
Designed to acquaint the student with the types of research and the methods and materials necessary for scientific inquiry; includes development of a research proposal, with emphasis on form and style.

HHE512 Advanced Foundations of Public Health
Hours 3
This course provides foundational knowledge in the profession and science of public health. Course content also addresses factors related to human health, examines public health and health care systems, and explores emerging research and application areas in the field.

HHE515 Advanced Foundations of Health Promotion
Hours 3
Open to graduate students in all divisions of the University. Designed to provide understanding pertaining to advances in the health sciences.

HHE520 Theories of Health Behavior
Hours 3
Designed to review research literature regarding health behavior and to analyze various models developed to explain health behavior.
Prerequisite(s): HHE 515
Prerequisite(s) with concurrency: HHE 515

HHE521 Basic Epidemiology
Hours 3
A course for students in health-related fields. The basic epidemiologic approach is developed; principles and methods are learned through readings (text and published studies), lectures, discussions, and the preparation of a research design by each student.

HHE526 Biostatistics
Hours 3
A course in statistical methods and concepts particularly appropriate for biomedical research and health-related subjects. Topics include descriptive statistics, probability, parametric and nonparametric procedures for one-group and two-group problems, contingency tables, and computer applications.

HHE530 Health Promotion Techniques
Hours 3
Study of current health promotional techniques and programs, designed to facilitate health behavioral change. Emphasis on review of scientific literature concerning the development, implementation, and evaluation of health promotion schemes.
Prerequisite(s): HHE 515
Prerequisite(s) with concurrency: HHE 515 and HHE 565 and HHE 520

HHE542 Pract Issues Behavrl Medicine
Hours 3
Lectures and readings examine behaviors compromising overall health status, such as tobacco use, noncompliance; and behavioral aspects of medical conditions, such as heart disease, cancer, pain. Topics include bioethics, racial/ethnic disparities, and rural mental health. ONLY Rural Medical Scholars may register.

HHE565 Planning Health Promotion Programs
Hours 3
Study of planning and evaluation methods and procedures for health education and promotion programs; emphasis on review of current scientific literature.
Prerequisite(s): HHE 515 Advanced In Health Promotion HHE 520 Health Behavior HHE 530 Health Promotion Techniq
Prerequisite(s) with concurrency: HHE 506 and HHE 566

HHE566 Program Evaluation in Health Promotion
Hours 3
Process, impact and outcome evaluation methods used to effectively evaluate health education/health promotion programs in the community, medical care, school and work site are reviewed.
Prerequisite(s): HHE 515 HHE 520 HHE 530
Prerequisite(s) with concurrency: HHE 506 and HHE 565

HHE584 Worksite Health Promotion Programs
Hours 3
Workplace health promotion program design, implementation, and evaluation that is grounded in health theory, evidence-based, and promotes health equity while addressing health care cost concerns.

HHE585 Internet Project
Hours 3
Provides for teaching laboratory, internship, and/or practicum experiences for students, according to individual needs and goals.

HHE586 Environmental Health Promotion
Hours 3
This course provides a careful study of the physical and human environment and its influence on health and disease. The course also examines implications for environmental health promotion.

HHE587 Health Disparities
Hours 3
The purpose of this project is to examine a case study detailing a unique cultural view/experience of the American health system. It also serves to provide health education and promotion strategies to engage diverse populations in interventions.

HHE588 Sexuality Education: Theory and Practice
Hours 3
Sexuality Education: Theory and Practice deals with contemporary issues in sexuality education in all settings. Issues include how sexuality education should be handled by parents, teachers, and community leaders; controversies surrounding sexuality education; pros and cons of various forms of sexuality education; and, the importance of understanding your own sexuality.

HHE589 Women and Health
Hours 3
The purpose of this course is to emphasize the importance of understanding women's experiences and life circumstances when planning, implementing and evaluating health programs or interventions.
HHE590 Cert Hlth Ed Specialist Study  
Hours 3  
Course is designed to help students develop and/or refine skills related to the planning, implementation, and evaluation of health education programs in various settings. Completion of the course is also intended to prepare students for the Certified Health Education Specialist examination.

HHE595 Workshop In Health  
Hours 3  
Advanced study of special topics in health education and health promotion.

HHE596 Independent Study  
Hours 1-6  
Designed to provide the opportunity for independent research in any area of health education.

HHE597 Clin Health Prom  
Hours 3  
Integration and application of the principles of health education and health promotion in the patient care setting.

Prerequisite(s): HHE 515 and HHE 520 and HHE 530 and and HHE 566 and HHE 565  
Prerequisite(s) with concurrency: HHE 566  

HHE598 Non-Thesis Research  
Hours 3  
Experimental or analytical investigation of health promotion problems.

HHE599 Thesis Research  
Hours 1-6  
Research study in a selected area of health promotion.

HHE602 Readings In Health  
Hours 3  
An independent readings course for doctoral students.

HHE603 Spec Projects In Healt  
Hours 3  
Experimental or analytical investigations of problems in health education. Arranged on an independent basis for doctoral students.

HHE604 Seminar In Health  
Hours 1-3  
Critical and emerging issues in health education and health promotion.

HHE605 Theor Sci Basis Hlth Edu  
Hours 3  
Examination of theoretical, scientific, historical, and philosophical issues that serve as a basis for health education and health promotion.

HHE606 Plan Admin Hlth Ed Prog  
Hours 3  
A comprehensive examination of models for planning health education and health promotion programs.

HHE607 Health Communictn Resrch  
Hours 3  
An examination of theoretical tenets and practical applications of health communication initiatives.

HHE667 Advanced Evaluation In Health Education and Health Promotion  
Hours 3  
This course provides an indepth analysis of evaluation and measurement techniques applied in health promotion and health education programs (HPE).

HHE685 Field & Lab Experience  
Hours 3-6  
Arranged on an independent basis for doctoral students. Participation and research in schools, communities, or work site settings.

HHE698 Research  
Hours 3  
Experimental or analytical investigation of problems in health.

HHE699 Dissertation Research  
Hours 1-12  
Design, research, and/or analytical investigation of a problem in the area of health to satisfy the dissertation requirement for the doctoral degree.

Faculty  
Chair  
Birch, David  

Professors  
Birch, David  
Turner, Lori  
Usdan, Stuart  

Associate Professors  
Leaver-Dunn, Deidre  
Nickelson, Jen  
Paschal, Angelia  
Ross, Levi  

Assistant Professors  
Gordon, Brian  
Hibberd, Lizzie  
Knowlden, Adam  
Zemke, Jeri  

Instructor  
Harcrow, Andy  

Health Education & Promotion, MPH  

The Department of Health Science offers a Master’s of Public Health (MPH) degree program in Health Education & Promotion. The program is offered both on campus and through a distance education format (online). The 42-credit-hour MPH program provides a high quality, student-oriented, and health-equity-focused curriculum developed to deliver core public health competencies that emphasize the application of health education and promotion. Designed for eventual Council on Education for Public Health (CEPH) accreditation, the curriculum offers education in the foundational areas of public health (health behavior, environmental health, epidemiology, biostatistics, and health services administration) and is tailored to train health promotion professionals to plan, implement, and evaluate programs to promote individual and population-based health. Upon program completion, students are eligible to take two national exams for professional certification: Certified Health
Education Specialist (CHES) exam and the Certified in Public Health (CPH) exam.

An applicant to the program should have a cumulative GPA of 3.0, or a GPA of 3.0 in the last 60 hours of coursework, or a GPA of 3.0 in a master’s degree program. The Graduate Record Examination or other standardized test is not required. Three letters of recommendation, a resume, and a statement of purpose should be submitted. Additional graduate school requirements may apply. Please see the Admission Criteria section of this catalog.

**Health Education & Promotion, MPH**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HHE 512</td>
<td>Adv Foundations of Pub Hlth</td>
<td>3</td>
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<tr>
<td>HHE 515</td>
<td>Adv Foundation Health Promot</td>
<td>3</td>
</tr>
<tr>
<td>HHE 520</td>
<td>Theories of Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HHE 530</td>
<td>Health Promotion Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HHE 565</td>
<td>Planning Health Promotion Prog</td>
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<tr>
<td>HHE 566</td>
<td>Program Eval In Hlth Promot</td>
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<tr>
<td>HHE 506</td>
<td>Tech Research In Health</td>
<td>3</td>
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<td>HHE 521</td>
<td>Basic Epidemiology</td>
<td>3</td>
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<tr>
<td>HHE 526</td>
<td>Biostatistics</td>
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</tr>
<tr>
<td>HHE 586</td>
<td>Environmental Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>HHE 500</td>
<td>Rural Environ/Occupatrl Health</td>
<td></td>
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<tr>
<td>HHE 446</td>
<td>Health Disparities</td>
<td></td>
</tr>
</tbody>
</table>

**Environmental Health (Choose 1)**

- HHE 586 Environmental Health Promotion
- HHE 500 Rural Environ/Occupatrl Health
- HHE 446 Health Disparities

**Community/Participatory Approaches and Culture/Diversity (Choose 1)**

- HHE 587 Health Disparities
- HHE 603 Spec Projects In Health Participatory Research or Addressing Health Equity through Health Promotion

**Application and Practice (Choose 1)**

- HHE 598 Non-Thesis Research
- HHE 596 Independent Study

**Approved Electives (Minimum of 6 credit hours)**

- HHE 504 Health Coaching (Other courses, with MPH Program approval)
- HHE 588 Sex Ed: Theory & Practice
- HHE 589 Women and Health

Total Hours: 42

The M.P.H. program has only one additional required item for graduation: comprehensive examination or thesis.

**Comprehensive Examination --** After the completion of the required/core courses indicated in the previous table, students must successfully complete a comprehensive exam which would assess their mastery of the public health and health education & promotion competencies. Students are eligible to take the exam if they have attained a grade of “B” or higher in each of the required/core courses. The University requires that students be enrolled in at least one credit hour during the term the exam is taken.

**HHE 599 Thesis --** Students are not required to do a thesis; but they are exempt from taking the comprehensive exam if this option is taken. The thesis should demonstrate the student’s mastery of the public health and health education & promotion competencies. Students will be eligible to start a thesis if they have completed each required/core course and attained a grade of “B” or higher in each course. The University requires that students complete at least six credit hours of thesis research, which cannot be taken concurrently.

**Health Education & Promotion, Ph.D.**

The Doctor of Philosophy (Ph.D) degree is also offered, specializing in health education and health promotion. Candidates are mentored by faculty members and taught through courses that promote the development of skills in teaching, research, and health education promotion practice. For information, please contact the chair of the Department of Health Science, Box 870311, Tuscaloosa, AL 35487-0311.

Admission requirements specific to the program and in addition to those of the Graduate School, College and department include the following:

- A GPA of 3.0 overall (on a 4.0 scale), or in the last 60 hours in a bachelor-level program
- An acceptable GPA in a completed master’s degree program
- An acceptable score on the Graduate Record Examination
- A personal statement of applicable experiences, research interests, and career goals
- Three recommendation letters from faculty or other health professionals capable of judging the applicant’s ability to complete doctoral work

See the Admission Criteria section of this catalog for more information.

**Doctor of Philosophy**

Early in the graduate program, each student confers with a faculty adviser or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study is prepared and submitted to the Graduate School.

The PhD Plan of Study is available at the Graduate School website. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit for the doctoral degree; otherwise, a “hold” may be placed on future registration.

If later there are changes in the Plan of Study, the student simply submits an amended Plan to the Graduate School at the time that the form for Admission to Candidacy for Doctoral Degree is submitted. A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination.

Doctoral students have a time limit of 7 years from the time of program admission. All Graduate School degree requirements (including details on Plan of Study and Admission to Candidacy) are listed below.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (Ph.D) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as
required for the completion of the EdD program. The student is required
to complete 60 semester hours in approved graduate courses beyond
the master's degree, or 90 semester hours of approved graduate courses,
and to defend a dissertation. The student must complete a minimum of
12 hours of dissertation research. In the College of Education (p. 380)
section of the Graduate Catalog, there are specific regulations governing
the EdD program.

Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly
proficiency, distinctive achievement in a special field, and capacity for
independent, original investigation. The first two criteria are tested in
coursework and a comprehensive examination, the last in a dissertation
in which the student must present clearly and effectively the results of
substantial research. A combination of these accomplishments, rather
than the mere accumulation of residence and course credits, is the
essential consideration in awarding the PhD degree. The PhD differs
from the EdD in a number of ways, including the fact that the PhD Plan
of Study and comprehensive examination demonstrate a higher-level
research focus, and there is a greater number of dissertation hours
and higher level of complexity and independent thought in a PhD-level
dissertation.

Field of specialization
A defined field of specialization is required of all candidates for the
Doctor of Philosophy degree. A minimum of 48 semester hours of non-
dissertation course credit is required. Candidates should consult their
departments or the appropriate section of this Catalog for additional
requirements. The doctoral course as a whole must be unified, and all its
parts must contribute to an organized program of study and research. In
addition, a student must complete a minimum of 24 hours of dissertation
research.

Research skill/language requirements
There is no universitywide foreign language/research skill requirement for
doctoral students; each college or department offering the PhD degree
may set its own requirements. This policy reaffirms the importance of
research skills and foreign languages in the highest academic
degree granted by American universities, but it also recognizes that the
departments offering the degrees are in the best position to determine
the number and nature of such requirements in the interests of their
students. For further information about PhD foreign language/research
skill requirements, students may contact their departments or the
Graduate School office 205-348-5921.

Interdisciplinary Studies
There is a PhD degree program in interdisciplinary studies, and it
is administered by the Graduate School. In addition to the general
requirements for the PhD degree, the program of study and the
supervisory committee for the prospective interdisciplinary studies
degree candidate must be approved by the dean of the Graduate School
before the student is admitted to the program. See Interdisciplinary
Studies (IDS) (p. 603) at the Graduate School's website for information
on prerequisites, admission procedures, course of study, and other
aspects of IDS programs.

Doctor of Education Degree
A minimum of two years of graduate study beyond the master's degree is
required for the completion of the EdD program. The student is required
to complete 60 semester hours in approved graduate courses beyond
the master's degree, or 90 semester hours of approved graduate courses,
and to defend a dissertation. The student must complete a minimum of
12 hours of dissertation research. In the College of Education (p. 380)
section of the Graduate Catalog, there are specific regulations governing
the EdD program.

Doctor of Musical Arts Degree
The DMA degree requires a minimum of 48 semester hours beyond
the Master of Music degree, plus recitals and other examinations as
determined by faculty of the School of Music. Specific requirements for
each major area are outlined in the School of Music (p. 206) section of
the Graduate Catalog.

Doctor of Nursing Practice
The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered
by the University of Alabama in Huntsville College of Nursing (UAHCON),
The University of Alabama at Birmingham School of Nursing (UABSON),
and The University of Alabama Capstone College of Nursing (UACCN).
The DNP is a practice-focused degree that is detailed in the Nursing
section of this Catalog.

Admission to Doctoral Degree Programs
Admission to any doctoral program is limited to students whose
scholastic records show distinct promise of success in doctoral study.
Admission to the Graduate School and the earning of a master's degree
from The University of Alabama does not guarantee acceptance into a
doctoral program. Students in doubt about their acceptance into doctoral
programs should consult with departmental advisors and the Graduate
School, which makes the final decision about admission. A department
can terminate a student's doctoral admission if there is documented
unsatisfactory academic or other progress toward completion of the
degree.

Residency Requirements
The University of Alabama recognizes that doctoral students should
be immersed in advanced study and inquiry, interact extensively
and meaningfully with faculty and peers, engage with the academic
community in their field, and have access to the educational resources
of the University. To achieve these goals, a minimum of 50 percent of
coursework hours to be counted in a student's doctoral program must
be from The University of Alabama (exclusive of dissertation research
hours and subject to the Graduate Catalog's Transfer of Credit policies).
Additionally, 100 percent of dissertation credit hours must be from The
University of Alabama. Diverse academic traditions, rapidly changing
instructional modalities, and new student populations are acknowledged
and accommodated with this policy.

Graduate Credit
A student must be admitted to the Graduate School and must register
as a graduate student in order to receive graduate credit. Approval for
graduate registration must be obtained from program advisors prior to
registration.

Graduate Credit for Noncredit Experiences
All course credit used toward a UA graduate degree must be taught at
the graduate level. No graduate credit may be earned by correspondence
study or for experiential learning not conducted under the direct
supervision of graduate faculty of The University of Alabama. UA does
not offer graduate credit for noncredit workshops, seminars, continuing
education experiences, professional development, internships, work/life
experience, and so forth.
Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.

- If the college dean supports the petition, it is sent to the graduate dean.

- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.

- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such
a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in
person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the &quot;University Academic Calendar&quot;)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate
School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

**Electronic submission of dissertations:** August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

**Protection of Human Subjects for Research**
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

**Final Examinations**
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

**Application for Graduation**
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

**Clearing the Academic Record for Commencement**
At least one week before commencement, the candidate's record must have been cleared for graduation.

**Attendance at Commencement**
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

**Withholding or Withdrawing an Advanced Degree**
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.
**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Courses of full graduate-level credit earned in a regionally accredited institution where a student was enrolled in the graduate school may be submitted for review for inclusion in a master’s degree program. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama. Acceptance of credit requires the approval of the student’s advisory committee and the dean of the Graduate School. Credit will not be accepted for transfer from any institution at which the student failed to achieve a “B” average on all graduate work attempted. Only courses in which a student earned a “B” grade or better may be transferred.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

A student initiates at the Graduate School’s website a Request for Transfer of Graduate Credit earned at another institution. It is also the student’s responsibility to assure that the Graduate School receives an official transcript of the credit requested for transfer, well in advance of the final semester.

With the approval of the student’s department and the dean of the Graduate School, the greater of 12 hours or 25 percent of the required coursework for a master’s degree may be transferred from another institution. All credit toward the master’s degree, including transfer credit, must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the master’s degree is to be awarded. Revalidation (recertification) of graduate credits that must have been earned during the six years (18 fall, spring, and summer semesters) is to be awarded. Revalidation (recertification) of graduate credits that will be more than 18 semesters old at the time of UA master’s program completion is not an option.

Please note that some departments allow fewer than 12 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.

**400-Level Courses**

A maximum of 6 semester hours of 400-level course credit may be accepted for a master’s degree program, but only if a form for Approval of 400-Level Course Work for Master’s Credit is approved by the Graduate School prior to the semester in which the 400-level coursework will be taken.

**Time Limit**

All requirements for the master’s degree must be completed during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond six years for master’s students.

**Admission to Candidacy**

During the 2013-2014 academic year, the Graduate Council eliminated the master’s candidacy requirement. Departments may monitor master’s candidacy if they wish, but the Graduate School does not monitor it and will not accept master’s candidacy forms. Doctoral candidacy is not affected and remains an important doctoral program requirement.

**Thesis**

A thesis evidencing research capacity, independent thought, and the ability to interpret materials is required of all master’s degree candidates who pursue Plan I. The subject chosen must be in the major field and must be approved by the graduate committee of the major department or school and by the head of the student’s major department or division.

The final oral thesis defense is the culminating experience in the master’s program. As such, all members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

**Article Style vs. Journal Format**

**Article Style.**

At the doctoral level, “article-style dissertations” are unified works that include several distinct but related studies of research or creative activity, each of which is of publishable quality. The University does not permit an “article-style thesis” to be presented for a master’s degree.

**Journal Format.**

A “journal-format thesis” is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal’s “information for authors” or similarly titled guidelines in conjunction with the Graduate School’s Student Guide to Preparing Electronic Theses and Dissertations.

A thesis committee must consist of at least three members appointed by the dean of the Graduate School. A form for Appointment or Change of Master’s Thesis Committee is used to request that the graduate dean appoint a thesis committee. The request normally is made as soon as the successful defense of the thesis proposal has been completed.

All members of a thesis committee must be members of the Graduate Faculty. The Committee Chair must be a full or associate member of the Graduate Faculty. One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business, or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s thesis committee. Unless there are extraordinary circumstances meriting approval by the graduate dean before the final oral defense of the thesis, all members of the thesis committee must attend the defense.

The candidate must give members of the examining committee a minimum of two weeks to read the thesis before the date of the final oral examination. A final oral examination is required of all students completing a thesis. All members of the thesis committee must be members of the UA graduate faculty and must attend the final oral examination unless there are extraordinary circumstances warranting the graduate dean’s approval of the absence prior to the defense meeting.
As of August 15, 2009, all theses are submitted electronically rather than on paper. See the Graduate School’s homepage for a link to information on Electronic Theses and Dissertations (ETD) for details.

Theses must comply with the regulations set out in A Student Guide to Preparing Electronic Theses and Dissertations, available on the Graduate School’s website. Approval of the thesis by the graduate dean is necessary before graduation.

The thesis should be completed, if possible, while the student is in residence at the University. To request permission to complete a thesis in absentia, the student must, before leaving the University, submit a satisfactory outline of the thesis, as well as evidence that adequate facilities are available where the work will be done, to the head of the student’s major department.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also can pose troubling ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research. In the case of thesis research that involves the use of human subjects in any way, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research.

Comprehensive Examinations
In addition to the regular course examinations, a final comprehensive examination representing a “culminating” or “capstone” experience for a degree is required of all candidates for the master’s degree (except for those candidates pursuing the Master of Accountancy, the Master of Business Administration, the Master of Library and Information Studies, the Master of Social Work, and the Master of Tax Accounting). The comprehensive examination is a culminating experience in which the student is expected to integrate prior learning. Each department, with approval of the Graduate Council, determines the most appropriate format. The various exams may consist of one or more of the following:

- a written and/or oral examination based on the content of the degree program;
- a thesis and final oral defense;
- a course requiring interpretation and integration of information from previous courses;
- a research paper, a “policy and practice” paper, or equivalent experience;
- a public performance or exhibition along with a contextualizing paper; and/or
- a practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 above, then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty from that department and appointed by the dean of the Graduate School. The examination must be given at least six weeks before the date of graduation (two weeks before for Plan II) and reported promptly to the dean of the Graduate School on appropriate forms. A final report, on the Master’s/EdS Examination Form is on the Graduate School website. The form should be submitted when all examinations are completed. A student may take the final oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Application for Graduation
Each candidate for a master’s degree must apply for graduation through myBama no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed.

Second Master’s Degree
Six (6) semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded. **Please note that if a student double counts six hours between two master’s degrees, no hours may double count toward any additional master’s degrees.

Department of Human Development and Family Studies
The General Studies Human Environmental Sciences (MS) (p. 566) focused area of study in human development and family studies provides students with the theoretical foundation and research skills necessary to pursue doctoral work and for advanced employment in a wide variety of occupations serving children, adults, and families.

HD500 Lifespan Human Development
Hours 3
This course will advance students’ knowledge of the theories and research in human development across the lifespan. Major areas of study include: developmental theory and physical, cognitive, social and emotional development.

HD501 Child Development
Hours 3
Covers principles of growth and development, chief areas of concern in the field, and supporting research.

HD510 Family Policy
Hours 3
The course will examine state of the family, trends and implications for family policy. The process of policy formation, implementation, evaluation and advocacy will be reviewed.

HD512 Adult Development
Hours 3
Theories of and research on development throughout adulthood; young adulthood, middle years and aging are presented.

HD525 Adv Preschool Dev & Curriculum
Hours 3
This course is designed for students to understand, design, implement and evaluate appropriate curricular practices for preschool children. Developmental theories and current issues in early childhood education are examined.
HD535 Parent/Child Relationship  
Hours 3  
Theories and research on parent/child relationships and an examination of how the parent/child relationship influences aspects of child development. Basic models of parent education and parent involvement are also examined.

HD540 Couple and Marital Therapy  
Hours 3  
This course provides students an introduction to clinical work with couples. An overview of three major approaches to couples therapy are included. In the course, students are encouraged to develop intervention skills related to these approaches and to think about working with couples of diverse backgrounds.

Prerequisite(s): na  
Prerequisite(s) with concurrency: na

HD545 Addiction and the Family  
Hours 3  
This course is an examination of the impact of substance abuse and addiction on the family as well as the influence of familial factors and family dynamics on addiction and the process of recovery.

HD550 Hospitalz Child & Youth  
Hours 3  
The developmental and psychological theories involved in the practice of child life in health care settings.

HD551 Loss And Bereavement  
Hours 3  
Provides students with a general overview of the grief processes as they impact children and families. Examines issues surrounding children’s grief/bereavement and studies issues surrounding complicated mourning.

HD556 Theories Family Studies  
Hours 3  
Study of interaction within the family, with emphasis on historical changes, major issues, marriage success and family strengths, and family processes such as communication and conflict patterns. A focus on ethnic and racial family forms is also included.

HD562 Dynamics Of Family Reltn  
Hours 3  
Study of interaction within the family, with emphasis on historical changes, major issues, marriage success and family strengths, and family processes such as communication and conflict patterns. A focus on ethnic and racial family forms is also included.

HD567 Pract Marriage Family Therapy  
Hours 3  
Provides students with preliminary supervised experience in a professional setting.

HD568 Pract I Marriage Family Thery  
Hours 3  
Provides students with supervised practice in marriage and family therapy.

HD576 Sem Human Sexuality  
Hours 3  
Discussion and analysis of underlying issues in human sexuality research.

HD580 Children and Divorce  
Hours 3  
Theory and research regarding effects of parental divorce on children’s cognitive and social-personality development.

HD591 Sp Prob Hum Dev Fam Stdy  
Hours 1-6  
Provides an opportunity to pursue special needs and interests. Students work primarily on their own, but under supervision.

HD598 Research Practicum  
Hours 1-6  
Participation in a cooperative faculty/student research project related to human development.

HD599 Thesis Research  
Hours 1-6  
Integration of theory and research related to infant behavior and development.

HD601 Advanced Child Development  
Hours 3  
Advances student’s knowledge of the theories and research in child development. Major areas of study include: developmental theory and physical, cognitive and social development.

HD602 Adv Infant Development  
Hours 3  
Examination of theoretical bases for behavior in infancy, and review of research literature on attachment behavior and various topics of major concern.

HD603 Advanced Adolescent Development  
Hours 3  
Covers biological, cognitive, social-emotional, and moral development of adolescents in school, home, and community settings.

HD631 Readings Human Developmt  
Hours 3  
With an interdisciplinary approach to issues and concerns in life-span development, the course examines theory and research on selected topics.

HD640 Couple and Sex Therapy  
Hours 3  
This course is designed to introduce students to the diverse and complex dynamic of clinical work with couples. The course will provide an overview of two evidenced-based approaches to couples therapy (Gottman Method Couples Therapy & Integrative Behavioral Couples Therapy), and special issues related to couples therapy, sex therapy and infidelity. Throughout the course, students will develop intervention skills related to these approaches, and skills related to working with couples of diverse backgrounds.
HD641 Ethics and Professional Issues in Marriage and Family Therapy
Hours 3
This course is designed to examine in-depth the America Association for Marriage and Family Therapy's Code of Ethics as the primary guide to the ethical practice of Marriage and Family Therapists. Students will explore the legal, ethical, and professional issues affecting therapists in various practice settings. A major emphasis will be on students’ development of their own process for ethical decision-making.
Prerequisite(s): HD 567

HD645 Cultural Diversity in Marriage and Family Therapy
Hours 3
This course explores areas of cultural diversity relevant to the practice of marriage and family therapy. Learning to respond in a culturally sensitive manner and recognizing contextual and systemic dynamics as related to establishing productive therapeutic alliance and delivering successful intervention are included.

HD664 Family Therapy
Hours 3
Examination and application of Family Therapy methodological and theoretical counseling principles. Emphasis is on helping families overcome stresses and develop strategies in response to normative and non-normative life events.

HD665 Advanced Family Therapy
Hours 3
Theoretical underpinnings of emotionally focused therapy (EFT), narrative therapy, and experiential family therapy are presented. Students will become competent in the conceptualization and application of these models to individuals, couples, and families.
Prerequisite(s): HD 664, Family Therapy

HD667 Pract II Marriage Family Ther
Hours 3
Advanced supervised practice in marriage and family therapy.
Prerequisite(s): HD 567 and HD 568

HD668 Intern Marriage Family Therapy
Hours 1-6
Supervised field experience in an appropriate job setting in marriage and family therapy.

HD670 Internship in Child Life
Hours 1-12
Internship for students in the Child Life concentration. Permission of the instructor.
Prerequisite(s): Permission of the instructor.

HD689 Practicum Human Developm
Hours 3-6
Experience with human development in classroom teaching or agency settings.

HD699 Dissertation Research
Hours 1-12
Integration of theory and research in a guided research project.

Faculty
Department Head
Carroll M. Tingle
Professor
Hernandez-Reif, Maria
Assistant Professors
Berryhill, Blake
Blitch, Kimberly
Burns-Nader, Sherwood
Casper, Deborah
Downs, Karly
Komara, Cecile
Totenhagen, Casey
Associate Professors
Curtner-Smith, Mary Elizabeth
Scofield, Jason
Witte, Tricia
Professors Emeriti
Hudson, Carmen
Enders, Linda
Jesse, Peggy
Ladewick, Becky
Stinnett, Nancy
Stinnett, Nick
Strickland, Martha

Department of Human Nutrition and Hospitality Management

- Programs
  - Human Nutrition, MS (p. 563)
  - Human Nutrition, PhD (p. 564)

NHM530 Advanced Nutrition Counseling
Hours 3
Focuses on advanced skills in nutrition counseling that incorporates behavioral theory and motivational interviewing.
Prerequisite(s): HES 509: Research methods; open to human nutrition majors only.

NHM550 Advanced Community Nutrition I
Hours 3
Focuses on principles, problems, and programs in community nutrition with an emphasis on community needs assessment.
Prerequisite(s): None.
NHM551 Advanced Community Nutrition II
Hours 3
Explores the techniques and strategies used in community nutrition; focuses on facilitation of community interventions, development of community partnerships and collaborative programs.
Prerequisite(s): NHM 550

NHM555 Maternal and Infant Nutrition
Hours 3
This course will focus on the scientific evidence that supports nutrition recommendations that result in optimal health for mothers and their infants. Methods of assessing nutritional status are included. The impact of insecurity and obesity on the nutritional status of mothers and their infants will be discussed.

NHM556 Child and Adolescent Nutrition
Hours 3
Discussion of the scientific evidence that supports nutrition recommendations that result in optimal health for young children and adolescents. Explores determinants of nutritional status and public health strategies for prevention of prevalent nutritional concerns.
Prerequisite(s): NHM 555

NHM557 Childhood Obesity
Hours 3
Focuses on the physiological, genetic, environmental, and behavioral factors that predispose children and adolescents to obesity; explores the clinical and public health strategies for treatment and prevention.

NHM558 Nutrition in the Prevention and Treatment of Chronic Disease
Hours 3
Evidence-based solutions in the prevention and treatment of the most prevalent nutrition-related chronic diseases are discussed. Current research is translated into health promotion and disease prevention strategies and plans.
Prerequisite(s): HES 509

NHM561 Advanced Vitamins and Minerals Metabolism
Hours 3
Lectures and reports on the physiological functions, metabolism, and interpretation of current research in vitamins and minerals.

NHM562 Metabolism of Energy Nutrients
Hours 3
In-depth discussion of carbohydrates, lipids, and protein metabolism. Discussion and interpretation of recently published research in peer-reviewed journals.

NHM564 Nutrition in Interprofessional Practice
Hours 1
The focus of this course is to prepare clinicians to work in interprofessional practice teams to meet the complex and multidimensional needs of Veterans and rural populations, with a special emphasis on the effects of multiple chronic conditions.
Prerequisite(s): NHM 566, NHM 567, or other similar MNT-oriented advanced course, RD status preferred. Admission by permission of Instructor only.

NHM555 ID Mgmt of Chronic Disease
Hours 2
The focus of this course is to train clinicians to work in interprofessional practice teams to meet the complex and multidimensional needs of patients with multiple chronic conditions living in rural areas. Instructor permission only.
Prerequisite(s): NHM 564

NHM566 Adv Clinical Nutrition
Hours 3
Critical review of the physiological basis for nutritional management in the prevention and/or treatment of diseases of the cardiovascular, gastrointestinal, endocrine, hepatic, and renal systems.

NHM567 Nutr Support Criticl Ill
Hours 3
Methods of assessing nutritional requirements of the critically ill patient and of delivering and monitoring enteral and parenteral nutrition are presented.

NHM568 Nutrition for the Older Adult
Hours 3
Methods of assessing nutritional requirements and a review of nutrition and disease topics specifically relevant to the care of the older adult.

NHM569 Integrat Food System Mgt
Hours 3
Current problems in food systems management are presented, with emphasis on theories of management and integration of management functions.

NHM590 Special Prob Nutrition
Hours 1-6
Instructor permission required.
Prerequisite(s): Instructor permission required.

NHM591 Spec Prob Food Science
Hours 3-6
No description available

NHM598 Non-Thesis Research
Hours 3
Experimental or analytical investigation of a food or nutrition-related issue. This course may be the capstone experience for the masters degree under Plan II and should be the last course the student takes prior to graduating.

NHM599 Thesis Research
Hours 1-6
Faculty mentored development of graduate thesis research.

NHM601 Contemporary Research in Translational Nutrition Science
Hours 3
This course will explore two fast-developing topics in the field of nutrition science: nutrigenomics and the gut microbiome. Students will become familiar with core concepts related to these areas in order to critically evaluate emerging research related to both.
NHM602 Methods in Integrative Nutrition Assessment
Hours 3
Analytical methodologies routine to nutrition assessments are discussed and implemented in accordance with standard research protocols in a lab setting.

NHM603 Nutrition Intervention
Hours 3
This course focuses on developing competence in the planning, design, and execution of randomized clinical trials involving nutrition-focused behavioral interventions.
Prerequisite(s): NHM 601 NHM 602

NHM610 Nutrition and Health Disparities
Hours 3
This course is designed to explore health disparities in minority populations, societal factors that impact their health and dietary intake, the differing needs and metabolism of nutrients by population, and educational techniques and healthcare management strategies to maximize the nutritional health of minority populations.

NHM611 Nutritional Neuroscience
Hours 3
This course teaches the molecular mechanisms at work in brain cells, and how intracellular events influence physiological and pathological processes in the brain. This course also covers the relationship between nutrients and neurological disorders and the various nutritional approaches to improve brain function will be discussed using recent publications.

NHM625 Nutritional Epidemiology
Hours 3
This course is intended for graduate students in health-related professions. Principles of epidemiology are discussed and their application to nutrition. This course provides information on research methods to assess exposure through collection of dietary and biological data, evaluate quality of these data, conduct appropriate analyses, and draw valid conclusions.

NHM635 Adv Prac. in Post Sec. Diet Ed
Hours 3
Focuses on developing Competency in Learning system design, with special emphasis on dietetics education at the college level.

NHM648 SecioDay Analysis Survey Data
Hours 3
An applied seminar in the secondary analysis of survey data.

NHM690 Doctoral Studies Seminar
Hours 1
The purpose of this course is to provide doctoral students with information and skills needed for successful doctoral study and an independent research career.

NHM691 Grant Writing for Translational Nutrition Research
Hours 3
Grant writing for translational nutrition research aimed at extending healthy life and reducing the burdens of chronic disease.

NHM692 Special Topics in Nutrition
Hours 3
In-depth understanding of sub-disciplines of food and nutrition that are fundamentals of nutritional sciences and the basic research philosophy of structure-function relationships in food and nutrition research.

NHM695 Interpretation of Nutrition Research
Hours 3
This course covers research methodology in nutrition research, and the evaluation of current nutrition research through the systematic review process.

NHM698 Non-Dissertation Research
Hours 1-15
Participation in a cooperative faculty-student research project related to nutrition or food science.

NHM699 Dissertation Research
Hours 1-12
Design, research, and/or analytical investigation of a problem in the area of nutrition to satisfy the dissertation requirement for the doctoral degree.

RHM521 Hospitality Law and Risk Management
Hours 3
Exploration of legal problems facing the hospitality industry. Legal cases related to restaurants, hotels, and meeting facilities are examined. Concerns and problem-solving for issues of risk management are explored.

RHM570 Leaders Mgt Hospitality Indust
Hours 3
An examination of contemporary leadership and management theories and practices used in the hospitality industry.

RHM574 Resources Mgt Hospitality Oper
Hours 3
Exploration of financial tools and techniques used in making effective managerial, business and operational decisions in hospitality organizations.

RHM575 Hospitality Operations Analysis
Hours 3
This course will focus on the application of financial management tools used to assist managers in the hospitality industry. Financial concepts will be examined as they relate to management decision making. Emphasis will be on interpreting financial data and communicating results to operation managers. Students should have completed an undergraduate course in Accounting or Finance prior to registering for this course.

RHM576 Strategic Management in Hospitality and Tourism
Hours 3
Formulation, development, and implementation of strategic management in the hospitality and tourism industry.
Prerequisite(s): None
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RHM588 Current Trends Food System Mgt
Hours 3
An exploration of a variety of issues of importance to effective management of food service operations. Topics vary to meet students' interests and issues facing the food service industry.

RHM592 Special Topics in RHM
Hours 3-6
Problems related to the operations of hospitality organizations such as hotel, restaurants, clubs and conventions and meeting management facilities.

RHM596 Seminar Hospitality Management
Hours 3
Discussion, reading, and exploration of operational issues related to the hospitality industry.

RHM598 Non-Thesis Research
Hours 3
Experimental or analytical investigation of a topic in restaurant, hotel, or meeting management.
Prerequisite(s): HES 509

RHM599 Thesis Research
Hours 1-6
Faculty-mentored development of graduate thesis research.
Prerequisite(s): HES 509

Faculty
Chair
Lawrence, Jeannine
Professor
Meyer, Mary Kay
Assistant Professors
Azrad, Maria
Boyle, Kimberly
Chen, Hsiangting "Shatina"
Douglas, Joy
Ellis, Amy
Hylton, Tiffany
Jung, Seung Eun
Kong, Lingyan
Niuh, Alvin
Park, Han-A
Shin, Yeon Ho
Stran, Kimberly
Tan, Libo
Associate Professors
Crowe-White, Kristi
Knol, Linda
Lawrence, Jeannine
Severt, Kimberly

Instructors
Blakey, Carla
Blumenthal, Jason
Bridgewater, Diane
DeSalvo, Denise
Greene, Lori
McMahon, Shannon
Milstead, Morgan

University Club
Dean, Angelique
Stroud, Matthew

Human Nutrition, MS
The Master of Science in Human Nutrition is a 30 credit-hour program designed to prepare nutrition professionals to practice dietetics at an advanced level and/or to pursue doctoral study. The program develops research skills, stimulates independent thought, and provides up-to-date knowledge in food and nutrition. Applicants can choose to pursue the major without a concentration, or can select the Community Nutrition or Clinical Nutrition concentrations to provide a more in-depth study of their chosen area. The program is designed for the registered dietitian but can be completed by a dietetic intern or student with a bachelor's degree in nutrition or another discipline who has met the listed prerequisites.

Distance Education
The master's degree is available on campus or through distance education. The degree requirements are the same, regardless of where it is completed. For more information on the distance option, contact nutritionbydistance@ches.ua.edu

Application Deadline: Applications are accepted on a continuing basis.

Additional Information: For more information, refer to the program website at http://www.nhm.ches.ua.edu/masters-in-human-nutrition.html

Direct additional questions to the director of the master's program in human nutrition, Dr. Tiffany Hylton at tmhylton@ches.ua.edu or 205-348-6973.

Human Nutrition, M.S. Hours

Required Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NHM 561</td>
<td>Adv. Vitamins and Minerals</td>
<td>3</td>
</tr>
<tr>
<td>NHM 562</td>
<td>Metabolism of Energy Nutrients</td>
<td>3</td>
</tr>
<tr>
<td>NHM 555 or</td>
<td>Maternal and Infant Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 567</td>
<td>Nutr Support Criticl III</td>
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Required Core Courses

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<tr>
<td>HES 509</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CHS 525</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
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</table>

Four courses in required or free electives (2 must be from NHM-designated courses). NHM options include:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NHM 550</td>
<td>Advanced Community Nutrition I</td>
</tr>
<tr>
<td>NHM 551</td>
<td>Adv. Community Nutrition II</td>
</tr>
<tr>
<td>NHM 556</td>
<td>Child and Adolescent Nutrition</td>
</tr>
<tr>
<td>NHM 557</td>
<td>Childhood Obesity</td>
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<tr>
<td>NHM 558</td>
<td>Nutrition in the Prevention and Treatment of Chronic Disease</td>
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Human Nutrition, M.S. - Clinical Nutrition Concentration

Program Core

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Concentration Requirements

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<td>NHM 567</td>
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<tr>
<td>NHM 568</td>
<td>Nutrition for the Older Adult</td>
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</tr>
<tr>
<td>NHM 557</td>
<td>Childhood Obesity</td>
<td>3</td>
</tr>
<tr>
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<td>Nutrition in the Prevention and Treatment of Chronic Disease</td>
<td>3</td>
</tr>
</tbody>
</table>

NHM Clinical Nutrition track-designated course | 3

Approved Concentration Electives/Supporting Courses | 6

Total Hours | 30

Human Nutrition, M.S. - Community Nutrition Concentration

Program Core

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<tbody>
<tr>
<td>CHS 520</td>
<td>Basic Epidemiology</td>
<td>3</td>
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<td>NHM 550</td>
<td>Advanced Community Nutrition I</td>
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</tbody>
</table>

Approved Concentration Electives/Supporting Courses | 6

Total Hours | 30

Human Nutrition, Ph.D.

The PhD in human nutrition is a three-year, 74-credit-hour program designed to align with the goals and objectives of the National Institutes of Health’s National Center for Advancing Translational Sciences (NCATS). As such, the program supports the training and development of researchers and leaders in the field of nutrition by focusing on developing the skills needed to perform bench-to-bedside-to-community research. Graduates of the PhD in human nutrition will be experts in nutrition research methodologies and translational nutrition, thereby efficiently advancing the field of nutrition through research to improve human health.

In accordance with the goals of the National Institutes of Health NCATS to implement and promote translational science approaches that foster collaborative bench-to-bedside-to-community approaches, a student who has completed this doctoral program in human nutrition will demonstrate mastery of:

1) Translational nutrition – Demonstrate proficiency in nutrition techniques that are integrated across discrete areas of nutrition research methodologies into a cohesive research agenda that moves nutrition research from the laboratory to the patient/community.

2) Communication - Effectively communicate nutrition information, evidencing the ability to evaluate and interpret current research for presentation to the academic, scientific, and/or the lay community.

3) Nutrition research practice – Demonstrate an understanding of relevant laboratory analyses methodologies, metabolic assessment techniques, and statistical research methodologies appropriate for developing strong, competitive research proposals.

4) Independent research – Demonstrate the ability to support an independent career in research by successfully developing and implementing a research protocol, gathering data to effectively test the hypothesis (or hypotheses), and analyzing and interpreting the data.

5) Effective educators - Demonstrate skills of effective classroom presentation of nutrition-related information.

Application Deadline: April 1. Admission decisions for Fall term will be made in mid-April.

Contact Information: Before applying, it is recommended that you contact the director of the PhD Program in Human Nutrition, Dr. Linda Knol, at lknol@ches.ua.edu or 205-348-8129.

For additional information, please visit the program webpage at http://www.nhm.ches.ua.edu/phd-in-human-nutrition.html

Requirements for Admission:

Students may enter the program with either a bachelor’s or master’s degree in nutrition or a master’s degree in a closely nutrition-related field.

Requirements for admission to the Ph.D. in human nutrition will be:

- A completed application, including a Statement of Purpose
- A current resume or curriculum vitae
- 3 letters of recommendation from faculty or other health professionals capable of judging the applicant’s ability to complete graduate work.
- Test scores:
  - If a student has previously completed a Master’s degree prior to beginning the Doctoral program and maintained a graduate GPA ≥3.5, their application will be considered without the need to submit a GRE score.
  - Students who have previously completed a Master’s degree prior to beginning the Doctoral program with a graduate GPA of 3.3-3.49 may be considered for admission providing they also have a GRE score of ≥300. Upon admission, these students would need to receive permission to continue after the successful completion of 12 graduate hours.
• Students with a Bachelor’s degree will need to submit GRE scores. Minimum requirement for admission is a ≥300 on the GRE.

• If an applicant does not have a previous degree in nutrition, minimum prerequisite course work would include NHM 558 Nutrition in the Prevention and Treatment of Chronic Disease, NHM 561 Adv. Vitamins and Minerals, and NHM 562 Metabolism of Energy Nutrients. These would need to be completed prior to beginning the Ph.D. Nutrition Core coursework and would be applied towards completion of their nutrition electives. The sequencing of course offerings will be structured such that taking these prerequisites courses will not increase time to graduation nor will they require additional burden or heavier academic loads on the students in order to achieve a timely graduation.

• Additionally, if a student is admitted without having previously completed a Master’s degree, they will need to complete HES 509 Research Methods. The sequencing of course offerings will be structured such that taking prerequisites course(s) will not increase time to graduation nor will they require additional burden or heavier academic loads on the students in order to achieve a timely graduation.

Coursework
The Ph.D. in human nutrition requires completion of 74 graduate hours, including 17 hours of nutrition core classes, 12 hours of statistics, 9 hours of nutrition electives, 12 hours of nondissertation research, and 24 hours of dissertation research.

• Students with a Master of Science degree in Human Environmental Sciences (M.S.H.E.S.) with an area of study in human nutrition from the University of Alabama may use the courses taken for the M.S.H.E.S. degree towards up to 9 hours of nutrition coursework in the Ph.D. program.

• Up to 12 hours of equivalent graduate nutrition coursework may be transferred in from a comparable Doctoral program to count towards completion of the Doctoral program requirements, providing those hours were not used towards completion of a degree at that institution.

Comprehensive Examination
By the end of the fifth semester in residence (not including summer terms) students must successfully complete a comprehensive candidacy exam. This written comprehensive examination is required of all candidates for the Ph.D. degree. The core comprehensive exam will be offered on the second Thursday of January and the second Thursday of June each year. This exam should be prepared for by individual study expanding on the content covered in four core courses: NHM 601 Contemp Research Nutrition Sci, NHM 602 Methods Integrat Nutr Assess, NHM 603 Nutrition Intervention, and NHM 625 Nutritional Epidemiology. The exam must be passed unconditionally before the student can defend his/her proposal and be advanced to candidacy.

Prior to taking the exam, students must have completed their core course requirements, and at least 75% of their other didactic course work. We recommend that students take their comprehensive exams when they have completed the core course requirements. Students should NOT assume that “A” level performance in their coursework is adequate preparation for the comprehensive exam. Students must be registered for at least one semester hour of graduate work during the semester(s) in which the comprehensive exams are taken.

The exam is written and graded by the graduate faculty in the Doctoral program. Grading is performed in a blinded fashion, with each section being graded by the graduate faculty who taught the course. Each of the four sections is graded as “passed” or “failed”. If any sections earn a score of “failed”, the student will be required to meet with the PhD program coordinator to go over the feedback from the grader(s). The student has two weeks from this meeting to prepare for a retake of the sections that did not earn a “pass”. Sections that were not passed on the initial examination can only be retaken once. If a student fails a section for the second time, they will be dismissed from the program per University Graduate School protocol.

The Comprehensive Exam will cover material outlined in the following core courses:
NHM 601 Contemp Research Nutrition Sci
NHM 602 Methods Integrat Nutr Assess
NHM 603 Nutrition Intervention
NHM 625 Nutritional Epidemiology

Doctoral Dissertation
The Doctoral dissertation is designed to provide students with a significant research experience and the ability to demonstrate their mastery of research design, implementation, and knowledge dissemination. Once students have successfully completed academic coursework and their comprehensive exams, they may then identify a dissertation committee, register for dissertation hours, and present their dissertation proposal. The Doctoral dissertation committee should include a minimum of five graduate faculty members with at least one committee member from outside of the home department. This committee will work with the student to develop an appropriate timeline and to ensure the student meets all University standards for documentation and research protocols appropriate for their respective department, college, and graduate school.

The Doctoral dissertation requires the completion of 24 hours of dissertation credit. Each student will work closely with his/her Doctoral program chair and his/her Doctoral dissertation committee in the development of a dissertation proposal. Upon completion of the dissertation research, a draft of the written dissertation is to be submitted no later than 2 weeks before the planned oral dissertation defense. Notice of this defense is to be posted throughout the college and will be announced via e-mail to faculty and currently enrolled graduate students. The student’s committee will be in attendance, as well as any faculty or students from the University who may wish to attend.

Human Nutrition, Ph.D.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NHM 601 Contemp Research Nutrition Sci</td>
<td>3</td>
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<tr>
<td>NHM 602 Methods Integrat Nutr Assess</td>
<td>3</td>
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<tr>
<td>NHM 603 Nutrition Intervention</td>
<td>3</td>
</tr>
<tr>
<td>NHM 690 Doctoral Studies Seminar</td>
<td>2</td>
</tr>
<tr>
<td>NHM 691 Grant Writing Nutrition Res</td>
<td>3</td>
</tr>
<tr>
<td>NHM 695 Interpret Nutrition Research</td>
<td>3</td>
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<tr>
<td>CHS 627 Multivar Meth Hlt Stats</td>
<td>3</td>
</tr>
<tr>
<td>NHM 625 Nutritional Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>NHM 648 Seciody Analysis Survey Data</td>
<td>3</td>
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<tr>
<td>Statistics Elective</td>
<td>3</td>
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Research Hours

<table>
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<tr>
<th>RH</th>
<th>Notes</th>
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General Studies Human Environmental Sciences, M.S.

The General Studies in HES offers the Master of Science in Human Environmental Sciences with the following areas of study:

- Consumer Conflict Management, Negotiation, and Mediation (graduate certificate available)
- Consumer Quality Management
- General Studies
- Interactive Technology
- Hospitality Management

See the Admission Criteria section of this catalog for more information.

Program Requirements

Clothing and Textiles

The area of study in clothing and textiles provides preparation for careers in higher education, business and industry and government services, and for admission to doctoral programs in clothing, textiles, and related fields. The area of study is designed to stimulate independent thought and develop skills in problem solving, creativity and research methods. Individualized programs of study are planned to develop professional competence in the student's area of interest.

Students applying for admission to the area of study in clothing and textiles please refer to the requirements for admission detailed in an earlier section of this catalog and should visit the Human Development and Family Studies website. All applicants must submit test scores from either the Graduate Record Examination or the Miller Analogies Test in support of the application. To graduate from master’s programs in the Department of Human Development and Family Studies, students must maintain a "B" average in the courses related to the area of study.

Additional Information

Six semester hours of eligible credit from one master’s degree at The University of Alabama may be applied to the requirements for a second master’s degree, but only if the department of the second master’s agrees to the courses in the plan of study. Any hours from the previous master’s degree must have been earned during the six years (18 fall, spring, and summer semesters) immediately preceding the date on which the second degree is to be awarded.

Rural Community Health, MS

The ultimate purpose of the program is to prepare students to be community health leaders in rural Alabama as health care providers.
The immediate purposes of the program are to teach 1) principles of rural public health as a basis for community health leadership, 2) characteristics of rural health concerns, and 3) approaches to biomedical science study through biochemistry and other science courses while 4) providing avenues for students to maintain close rural community ties and identities and 5) to form a supportive peer group. This program targets two groups of students:

- Rural Medical Scholars (RMS), established in 1996 by The University of Alabama School of Medicine (UASOM) to recruit students who grew up in rural Alabama who desire to practice primary care medicine in rural Alabama. RMS apply to UASOM, go through a special interview/selection process and enter a RMS 5-year track of study leading to the MD degree. For the first year, RMS spend a year on the Tuscaloosa campus in the General Studies in Human Environmental Sciences program with a set of courses related to rural community health. (Note: This proposal requests that the curriculum be formally recognized as a Master of Science in Rural Community Health.) Following this year, RMS then complete two years of pre-clinical study at UASOM in Birmingham. RMS then return to Tuscaloosa for two years of clinical medicine training in the College of Community Health Sciences (CCHS) (UASOM – Tuscaloosa Campus). After completing the MD degree, RMS enter residency training in the specialty of their choice.

- Rural Community Health Scholars (RCHS), students who exhibit a desire to be rural health care providers (not necessarily physicians), but are not eligible for the RMS program either because they did not grow up in rural Alabama or they have academic (GPA or MCAT) deficiencies or both. Most of these students use the Master of Science degree as a bridge to a health professional school (medical, osteopathic, physician assistant, nursing, physical therapy, public health, doctor of philosophy, etc.) by demonstrating their ability to handle graduate-level studies and improving admission test scores. Some RCHS enter the job market after completing the Master of Science degree as public health workers or as high school science teachers.

This program directly contributes to The University of Alabama’s mission “To advance the ... social condition of the people of the State ...” by helping prepare health professionals for the underserved rural areas of Alabama.

The academic requirement for admission as RMS is an MCAT score of 495 or higher or an ACT score of 24 or higher and an undergraduate GPA of 3.2 or higher. For RCHS the undergraduate GPA must be 3.0 or higher; otherwise a qualifying GRE score is required. The non-thesis research takes the place of a comprehensive exam. Graduate GPA requirements are set by the UA Graduate School.

The program includes two concentrations: the Rural Medical Scholars and the Rural Community Health Scholars. The concentrations provide some of the tools necessary for future rural Alabama physicians (Rural Medical Scholars) and other rural health care providers (Rural Community Health Scholars). The courses in the concentrations prepare students to lead in the development and maintenance of community health center practices and other health care practices.

**Required for ALL Rural Community Health Students**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BSC 550</td>
<td>Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHS 527</td>
<td>Health Policy &amp; Planning</td>
<td>3</td>
</tr>
<tr>
<td>HHE 500</td>
<td>Rural Environ/Occupatnl Health</td>
<td>3</td>
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<tr>
<td>HHE 526</td>
<td>Biostatistics</td>
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**Rural Medical Scholars Concentration**

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HHE 598</td>
<td>Non-Thesis Research</td>
<td>3</td>
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<tr>
<td>Total Hours</td>
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**Non-thesis Research Description:** HHE 598 Non-Thesis Research is to be a culminating exercise, expressing knowledge and methods learned during the Rural Medical Scholars/Rural Community Health Scholars/Master’s degree program of study. It will provide evidence to program faculty that principles and topics learned throughout the curriculum are expressed in reports of the experience. The experience will be in the form of a research study.

Students might, for example:

- State a rural health issue that their study addresses. This statement should include an explanation of how this topic caught their interest and of their own background relative to this interest.
- Explain what they did to study the issue - Contextual literature review (and interviews) to place the issue in context of broader rural health concerns, to explain essential facts known about the issue, and to express what needs to be known in order to address the issue in rural Alabama; Collection of data (qualitative and/or quantitative) in a rural community to study the issue as it concerns that community, to learn how it operates in that community, and to learn about the resources that are present to influence the issue; Focused literature review (and interviews) to learn how such an issue has been addressed in other locales and how this might inform a local effort.
- Describe how the information collected was sorted through, analyzed, or considered and summarize the key findings.
- Provide a conclusion about the issue in the community and recommendation about how to address it.
- Discuss the ramifications of addressing the problem in the community, if it could be further applied across rural Alabama, and, if so, what would it mean for Alabama’s rural health.

During the review of the student experiences, by verbal and/or written report, we would expect to find evidence that students have a concept of overall rural health needs, understand the limits of their study methods and their findings, and appreciate the local realities related to addressing a rural health concern.

**Rural Medical Scholars Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>CHS 552</td>
<td>Community Clinical Proc</td>
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<tr>
<td>HHE 542</td>
<td>Pract Issues Behavril Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HHE 521</td>
<td>Basic Epidemiology</td>
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<tr>
<td>CHS 590</td>
<td>Clinical Correlations Biochem</td>
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<tr>
<td>CHS 532</td>
<td>Comm Clinical Process II</td>
<td>3</td>
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**Rural Community Health Scholars Concentration**

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<tr>
<th>Course Code</th>
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<tr>
<td>CHS 540</td>
<td>Rural Community Interaction I</td>
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<tr>
<td>NHM 561 or</td>
<td>Adv. Vitamins and Minerals</td>
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</tr>
<tr>
<td>NHM 562</td>
<td>Metabolism of Energy Nutrients</td>
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<tr>
<td>HHE 521</td>
<td>Basic Epidemiology</td>
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<tr>
<td>CHS 530</td>
<td>Stress Management</td>
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<tr>
<td>CHS 541</td>
<td>Rural Community Interaction II</td>
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**Capstone College of Nursing**

The Capstone College of Nursing offers the following:
Nursing Courses

NUR501 Theoretical Models for Advanced Nursing Practice with Rural Populations
Hours 3
This course is intended to advance the role of theory in knowledge development and its relationship to nursing research, practice, and administration. Students will develop critical theoretical analytical skills using selected grand and middle range theories within the discipline of nursing and theoretical work from other disciplines. Specifically, the content will examine the development of nursing theory, including relevant nursing theories such as rural nursing theory, complexity theory, synergy theory, adult learning theories, among others. Theory is understood as essential to nursing science and based on culturally competencies and ethical principles.
Prerequisite(s): Admission to MSN Program
Prerequisite(s) with concurrency: NUR 529 and NUR 503

NUR502 Issues in Community Health for Rural Populations
Hours 2
Students will examine selected issues that affect community health care for rural populations for nursing roles in case management or as a clinical nurse leader. The organization and financing of health care for rural populations will receive considerable attention. The advanced practice nurse case manager or clinical nurse leader student will gain understanding of the development of health care policy and the ethical, political, economic, sociocultural, and technological forces influencing the delivery of care.

NUR503 Nursing Informatics in Healthcare
Hours 3
This required course focuses on the ethical management of data, information, knowledge, and technology to communicate and deliver safe quality healthcare within and across various healthcare settings. This course incorporates the concepts of nursing science, computer science and information science with information technology tools commonly found in practice. Students are introduced to the nursing informatics specialty and the use of technology to augment nursing care delivery and patient safety.
Prerequisite(s): Admission to MSN Program
Prerequisite(s) with concurrency: NUR 501 and NUR 529

NUR504 Rural Health Inter-Professional
Hours 2
The focus is on working with inter-professional educational teams to meet the complex and multidimensional needs of Veterans and rural populations.
Prerequisite(s): none

NUR505 Advanced Health Assessment
Hours 3
This course will assist the graduate nursing student to further develop health assessment skills for obtaining and recording a systematic health history as well as advanced holistic health assessment of individuals across the life span.
Prerequisite(s): Admission to MSN Program
Prerequisite(s) with concurrency: NUR 501 and NUR 503 and NUR 529

NUR509 Evolution of Palliative Care and the Impact on Multiple Chronic Conditions
Hours 3
An introduction to the nation’s changing healthcare environment and the importance of integrating palliative care principles into primary care. The topics include a review of the complex healthcare environment in the United States as related to managing patients with serious illness and/or Multiple Chronic Conditions (MCCs). Specifically, this includes an overview of the current barriers preventing palliative care access and an analysis of the financial impact of multiple chronic disease and patient outcomes. This course concentrates on exploring how interprofessional palliative care strategies can be employed in primary care settings in order to improve patient outcomes.

NUR510 Basic Concepts of Teaching Diabetes Self-Management Techniques
Hours 3
This online elective course is open to any graduate student in the health or social sciences. The course focuses on: Diabetes Self-Management Techniques (DSMT) and instructs the provider in what manner to impart information that has immediate application for people living with diabetes. The course focuses on application of clinical guidelines for exercise and fitness, nutrition and diet, and the techniques, products, and strategies that help patients learn diabetes self-management techniques that empower them to take charge of their well-being and live healthier lives.
Prerequisite(s): Premission by Instructor
NUR511 Advanced Practice Nursing: Issues in the Care of Older Adults  
Hours 3  
This is a elective graduate nursing course. The focus of this course is to delve into multiple issues of concern for all older adults and their families. By exploring the greatly varied expectations for well and complicated aging, the student will develop an appreciation for the vast array of issues affecting older adults and the multiple transitions they experience.

NUR513 Special Topics  
Hours 1-4  
This course focuses on selected MSN topics under the sponsorship of a nursing faculty member with relevant expertise.

NUR516 Advanced Diabetes Management: An interdisciplinary approach across the lifespan  
Hours 3  
This online elective course is open to any graduate student in the health or social sciences. The course focuses on the primary, secondary, and tertiary prevention and management of diabetes mellitus offering expanded content suitable to students pursuing graduate study in nursing, medicine, nutrition, and other social sciences. Building on the basic and advanced science and clinical management courses a multi-disciplinary approach is offered for the prevention of pre-diabetes, metabolic syndrome, type 2 diabetes, management of both types 1 and 2 diabetes mellitus across the lifespan. Special emphasis is placed on the prevention and management of the complications and co-morbid conditions potentially resulting from diabetes mellitus.

Prerequisite(s): PHL 241 OR PHL 242 OR PHL 243

NUR517 Graduate Independent Study  
Hours 1-4  
No description available

NUR518 Social Media for Healthcare  
Hours 3  
This elective course focuses on the use of social media programs and applications within the healthcare setting. This course will equip healthcare providers with the knowledge and skills needed to effectively use social media within their professional settings. Students will be introduced to social media literacy, social media software, and health 2.0. Also, students will discuss guidelines related to social media use within the healthcare setting.

NUR520 Evidence-Based Practice Role and Processes for Case Manager  
Hours 4  
This course includes the professional role of the nurse case manager with rural populations across the lifespan. Emphasis is on the influence of nurse case managers on person(s) outcomes at the systems level. Students will assess complex person(s) demands; plan coordinated, multidisciplinary, evidence-based collaborative approaches to person(s) care; and appraise strategies for evaluation of person(s) outcomes.

Prerequisite(s): NUR 501 and NUR 503 and NUR 505 and NUR 521

Prerequisite(s) with concurrency: NUR 581 and CHS 520 and NUR 522

NUR521 Advanced Pharmacology  
Hours 3  
This course will assist the graduate nursing student to further develop knowledge of evidence-based clinical pharmacology. Course content will include basic principles of pharmacology as they apply to drug therapy across the lifespan. A prototype approach will be used to present content covering selected drugs affecting the peripheral nervous system, central nervous system, cardiovascular system, renal system, endocrine system, immune system, musculoskeletal system, respiratory system, gastrointestinal system, and chemotherapy for infection and cancer.

Prerequisite(s): Admission to MSN Program

Prerequisite(s) with concurrency: NUR 501 and NUR 503 and NUR 529

NUR522 Human Relations Management  
W  
Hours 3  
This required course focuses on establishing relationships with person(s) and families, group dynamics, team building, leadership and management skills, negotiation, human diversity in health and illness, conflict management, and rural health issues relevant for advanced nursing roles of the nurse case manager (NCM), clinical nurse leader (CNL), and nurse practitioner (NP) student. This course carries "W" designation ONLY for the RN/BSN/MSN. It is required for the RN/BSN/MSN students to meet the university's core curriculum requirements for writing (W).

Prerequisite(s): NUR 505

Writing

NUR524 Legal and Ethical Issues in Healthcare  
Hours 3  
This course deals with recognition and analysis of the legal and ethical issues facing healthcare professionals and administrators. Building on theories and processes from business, medicine, nursing and other disciplines, students will develop a systematic approach to resolving ethical and legal conflicts.

NUR525 Evidence-Based Practice Role and Processes for the CNL  
Hours 4  
This course describes the professional role of the clinical nurse leader (CNL) with rural populations across the life span. Emphasis is on the influence of the CNL on person(s) outcomes at both the microsystem level. Students will assess complex person(s) demands, plan coordinated, multidisciplinary, evidence-based collaborative approaches to person(s) care, and appraise strategies for evaluation of person(s) outcomes.

Prerequisite(s): NUR 501 NUR 503 NUR 505 NUR 521

Prerequisite(s) with concurrency: CHS 520 and NUR 581 and NUR 522

NUR526 Evidence-Based Practice Roles and Processes for Nurse Practitioners  
Hours 4  
This course includes the professional role of the nurse practitioner with rural populations across the lifespan. Emphasis is on the influence of nurse practitioners on outcomes at the systems level related to rural populations. Students will assess complex demands; plan coordinated, multidisciplinary, evidence-based collaborative approaches to care; and appraise strategies for evaluation of outcomes.

Prerequisite(s): NUR 501, NUR 503, NUR 505, and NUR 521
NUR527 Evidence-Based Practice Roles and Processes for Nurse Administrators
Hours 4
This course explores the professional role of the nurse administrator. Emphasis is on the influence of nurse administrator on outcomes at the systems level and as related to rural healthcare systems and populations. Students will assess complex system and healthcare facility demands; plan coordinated, multidisciplinary, evidence-based collaborative approaches to systems of care at the administrative level; and appraise strategies for evaluation of outcomes related to or affected by the nurse administrator role.
Prerequisite(s): NUR 501 and NUR 503
Prerequisite(s) with concurrency: NUR 522 and CHS 520 and NUR 581 and NUR 537 and or by permit

NUR529 Advanced Pathophysiology
Hours 3
This course will explore the biologic basis of disease at the cellular, organ and system level with an emphasis on applications for health professionals. It is a required course in the MSN curriculum of the Capstone College of Nursing and may be taken as an elective by graduate biology majors with an interest in health professions based on space available.
Prerequisite(s): Admission to MSN Program
Prerequisite(s) with concurrency: NUR 501 and NUR 503

NUR530 Case Management Practicum
Hours 3,6
This course focuses on the application of the clinical nurse leader's functions of assessing, planning, intervening, monitoring, and evaluating health care in rural communities. Emphasis is placed on implementing a coordinated, evidence-based, interdisciplinary, collaborative, integrated, and cost effective approach to health care with rural populations. Web-based conferences will assist students in the exploration and application of case management issues in self-selected clinical experiences.
Prerequisite(s): NUR 520
Prerequisite(s) with concurrency: NUR 580 and NUR 502

NUR531 Nursing Faculty Roles and Responsibilities
Hours 3
This online course will provide an introduction to the roles and responsibilities of nursing faculty. This course will prepare students to participate in the processes of designing, implementing, and monitoring a nursing curriculum. This course will include roles and responsibilities of faculty in teaching, scholarship, service, and practice.

NUR532 Instructional Media for Nursing Education
Hours 3
This course will provide students with an overview of instructional technology and media that can be used in undergraduate and graduate level instruction in nursing education programs. This course will provide students with skills to begin on site and online instruction. It will explore the use of computers, software, models, simulators, and other instructional media.
Prerequisite(s): AIL 600 and AIL 602
Prerequisite(s) with concurrency: AIL 600 and AIL 602

NUR533 Inquiry into the Cuban Healthcare System
Hours 3
The purpose of this foreign travel experience course is to provide students with firsthand knowledge of the healthcare system in Cuba. Students will visit facilities and community organizations that support the health of individuals and communities. In addition, students will have the opportunity to visit key points of historic interest to further their understanding and develop an increased cultural awareness of Cuban life.

NUR535 Clinical Immersion Experience
Hours 3,6
This course focuses on the application of the clinical nurse leader's functions of assessing, planning, intervening, monitoring, and evaluating health care in rural communities. Emphasis is placed on implementing a coordinated, evidence-based, interdisciplinary, collaborative, integrated, and cost effective approach to health care with rural populations. Web-based conferences will assist students in the exploration and application of care management issues in self-selected clinical experiences.
Prerequisite(s): NUR 525
Prerequisite(s) with concurrency: NUR 580 and NUR 502

NUR537 Nurse Administrator: Practicum I
Hours 4
This course provides the opportunity to experience the role of nurse administrator. An individualized nursing administration practicum in a specific area of clinical emphasis is chosen by the student, and monitored by the faculty and clinical preceptor. Competencies that govern the role of the nurse administrator are explored in depth. Students focus on the context for enacting the role of nurse administrator in a healthcare delivery system, and how rurality and related concepts may affect this role. Students engage in a reflective discussion of nursing administration issues and experiences in the didactic portion of this course. This course requires completion of 180 hours of clinical practicum experience.
Prerequisite(s): NUR 501 and NUR 503
Prerequisite(s) with concurrency: NUR 502 and NUR 527 and Or by permit

NUR538 Nurse Administrator: Practicum II
Hours 4
This course was designed as the second part of a two part nurse administrator practicum series. It will address core competencies of the nurse administrator through one hour of didactic material and three hours of clinical practicum. Students will have an intensive clinical immersion experience that fully embraces the various roles, functions and expectations of the successful nurse administrator in today's dynamic healthcare environment. The clinical preceptor experience established in NUR 537: Nurse Administrator Practicum I will be continued as students will have the opportunity to build upon previously learned concepts to fully integrate and apply them in practice. Students will be expected to complete 180 clock hours of relevant clinical practicum experience with an approved preceptor.
Prerequisite(s): NUR 501, NUR 502, NUR 503, NUR 527, and NUR 537
NUR540 Nurse Educator Practicum
Hours 3-6
This course focuses on the application of the nurse educator’s functions of assessing, planning, intervening, monitoring, and evaluating nursing education in the academic environment. Emphasis is placed on implementing a coordinated, interdisciplinary, collaborative, technologically appropriate and integrated approach to nursing curriculum, design, implementation and evaluation. Web-based conferences will assist students in the exploration and application of teaching and learning issues in self-selected academic experiences.
Prerequisite(s): NUR 531 and NUR 532
Prerequisite(s) with concurrency: NUR 531 and NUR 532

NUR580 Fiscal Resource Management
Hours 3
This course addresses principles of fiscal resources management and their application to case management or clinical nurse leader role. Concepts include cost analysis, budgeting, contract development, financial aspects of program development and evaluation, and cost accounting and tracking for rural populations.
Prerequisite(s): CHS 520 and NUR 581
Prerequisite(s) with concurrency: NUR 505

NUR581 Research and Statistics for Health Professional
Hours 3
This course prepares students to evaluate research methods, designs, instruments, and statistics used in health research. Research ethics, outcomes research, and evidence-based practice are explored. Students will critique research literature and prepare a research overview relevant to their practice area.
Prerequisite(s): NUR 501 and NUR 503 and NUR 529
Prerequisite(s) with concurrency: CHS 520

NUR582 Psychiatric Treatment Modalities
Hours 2
This course provides a theoretical basis to help the nurse practitioner student determine, select, implement, and evaluate different types of psychiatric treatment modalities for persons across the lifespan, who are experiencing a psychiatric illness. Admission in Nurse Practitioner concentration.
Prerequisite(s): Admission in Nurse Practitioner Concentration
Prerequisite(s) with concurrency: NUR 585

NUR585 Psychiatric Mental Health Nurse Practitioner I
Hours 4
In this course, the student will learn how to critically appraise theoretical approaches for psychotherapeutic interventions with adult patients and families in rural areas. This course provides a theoretical basis for advanced practice in Psychiatric Mental Health Nursing. This course will also provide the student with an understanding of the dynamics, epidemiology, and treatment of selected psychopathology, specifically focused on the adult patient. In addition, the role of the PMHNP in the assessment, diagnosis, and treatment of adult patients with mental disorders will be explored. Students must complete 150 clinical rotation hours providing psychopharmacotherapeutic and psychotherapeutic interventions to adults and families within the semester in which the course is taken.
Prerequisite(s) with concurrency: NUR 586

NUR586 Family Nurse Practitioner I
Hours 4
This course provides a theoretical and evidenced based foundation for advanced practice as a Family Nurse Practitioner (FNP). The focus is on identifying and managing common acute, episodic and multiple chronic conditions in the adult client. Health promotion and disease prevention strategies for the adult are emphasized. Nurse Practitioner role functions in primary care are explored through clinical experiences with diverse rural populations. Students must complete 150 clinical rotation hours working with adults and families within the semester in which the course is taken.
Prerequisite(s) with concurrency: NUR 585

NUR587 Psychiatric Mental Health Nurse Practitioner II
Hours 4
Provides the student with an understanding of the treatment of selected psychopathology. The role of the advanced psychiatric mental health nurse practitioner in the assessment, diagnosis, and treatment of child/adolescent (birth to age 17) patients and families in rural settings will also be explored. This course will also examine treatment modalities for advanced practice psychiatric mental health nursing, specifically with children and adolescents. In addition, this course will provide advanced knowledge of psychobiological information in conjunction with the use of psychopharmacological and psychotherapeutic interventions with child/adolescent patients. Students must complete 150 clinical rotation hours working with children and families within the semester in which the course is taken.
Prerequisite(s): NUR 585 and NUR 586
Prerequisite(s) with concurrency: NUR 588
NUR588 Family Nurse Practitioner II
Hours 4
This course provides a theoretical and evidenced based foundation for advanced practice as a Family Nurse Practitioner (FNP) caring for women and children. The focus is on identifying and managing common acute, episodic, and multiple chronic conditions experienced by women and children. Health promotion and disease prevention strategies for women and children are emphasized. Nurse Practitioner role functions in primary care are explored through clinical experiences with diverse rural populations. Students must complete 150 clinical rotation hours within the semester in which the course is taken# 70 hours in Pediatrics and 80 hours in OB/GYN.
Prerequisite(s): NUR 585 and NUR 586
Prerequisite(s) with concurrency: NUR 587

NUR589 Psychiatric Mental Health Nurse Practitioner Residency
Hours 3
Provide the nurse practitioner student with the opportunity to completely immerse in the role of the Psychiatric Mental Health Nurse Practitioner (PMHNP). Students will engage in the practice, management, and treatment of rural children, adolescents, adults and/or geriatric individuals and families experiencing mental health needs. The student will demonstrate the ability to utilize psychopharmacological and psychotherapeutic (individual, family and group) interventions in a wide range of clinical settings. Students must complete 225 psychiatric mental health clinical rotation hours treating patients across the lifespan while offering opportunities for board certification exam preparation.
Prerequisite(s): NUR 585
Prerequisite(s) with concurrency: NUR 587

NUR590 Family Nurse Practitioner Residency
Hours 3
Provide the student with the opportunity to completely immerse in the role of the Family Nurse Practitioner. Students will engage in the practice, management, and treatment of rural individuals and families experiencing primary care needs. Students must complete 225 clinical rotation hours in primary care treating patients across the lifespan.
Prerequisite(s): NUR 586 and NUR 588

NUR599 Master's Thesis
Hours 3-6
This course is designed to assist the student in selecting a foundational area of inquiry or phenomenon of interest, and creating original scholarship written under the direction of the faculty advisor. It is expected that the project will culminate in the production of a research product (thesis) that evidences originality, appropriate organization, clarity of purpose, critical analysis, and accuracy and completeness of documentation. The work shall involve an analysis or study related to a professional nursing phenomenon of interest such as, but not limited to: direct patient care concerns, systems level quality improvement, healthcare policy, or nursing administration.

NUR620 Curriculum Theory & Practice
Hours 3
This is primarily an online, web-based course. It critically examines historical and contemporary discourses necessary to understand curriculum as a synergetic field of study and an area of professional practice. Factors related to organizing curriculum will be considered based on analysis, interpretation and synthesis of contextual data. Students will determine directions, outcomes, and goals for curriculum and course design. Methods for curriculum evaluation and a dashboard for successful implementation will be emphasized. Students will demonstrate their ability to develop and critique curriculum in the context of instruction through reflection, observation, documentation, and descriptive analysis and to relate ethical, moral, and social justice concerns to curriculum practice.
Prerequisite(s): NUR 531

NUR696 Doctoral Seminar in Research
Hours 3
Students are expected to utilize knowledge from quantitative methodology and statistics in this course. The seminar will provide students with opportunities to synthesize knowledge gained in this and other courses in order to address topics of for research in nursing education.

NUR700 Clinical Data Management and Analysis
Hours 3
This required course provides students with the knowledge base to understand, collect, manage, and measure clinical data. Students will explore data collection and management processes, levels of measurement, basic statistics, and measurement for improvement in order to effectively use clinical data. Data entry exercises employed through analytical tools and statistical software packages will allow the students practice and apply the basic data management and analysis skills needed for the evaluation of clinical data and evidence-based practice.
Prerequisite(s): Admission to DNP Program
Prerequisite(s) with concurrency: NUR 701

NUR701 Writing for Publication
Hours 3
This course concerns the development of skills in writing, editing, and preparing manuscripts for publication from initial idea to submission of a publishable manuscript. The course emphasizes a writing process that encourages productivity and collegial peer review. Legal and ethical aspects of authorship prepare students for responsible practices expected of scholars. Students should have mastered basic writing skills, e.g., grammar, syntax, and computer skills, prior to enrolling in this course.
Prerequisite(s): Admission to DNP Program
Prerequisite(s) with concurrency: NUR 701

NUR713 Special Topics
Hours 1-4
This course focuses on selected DNP topics under the sponsorship of a graduate nursing faculty member with relevant expertise.
The University of Alabama 2018-2019  573
NUR742 Program Evaluation and Methods
Hours 3
The purpose of this course is to synthesize knowledge related to translational/implementation science models and strategies to improve health outcomes. The emphasis in the course is the use of program evaluation as a strategic planning tool to achieve positive changes in health status, to initiate quality improvement, to engage in risk anticipation, management and to facilitate organizational and system level changes.
Prerequisite(s): NUR 700 NUR 729 NUR 743

NUR743 Evidence Based Practice Strategies
Hours 3
NUR 743 is a required core Doctor of Nursing Practice Program course, which expands on foundational evidence-based practice concepts to refine a problem statement and derive a searchable and answerable clinical question. Content includes conducting a systematic review of the literature to guide the selection of methods, strategies, tools and metrics needed to complete a successful scholarly project. The course also addresses targeted strategies for disseminating evidence associated with scholarly projects.
Prerequisite(s): NUR 731 NUR 729

Faculty
Dean
Suzanne S. Prevost, PhD, RN, COI
Senior Associate Dean
Robin M. Lawson, DNP, CRNP, ACNP-BC, NP-C, CCRN
Assistant Dean
Michele Montgomery, PhD, MPH, RN
Graduate Recruitment and Retention Liaison
Vickie L. Samuel
Program Assistant
Christina Horen

Doctor of Nursing Practice (DNP)
The DNP is a practice doctorate in nursing which prepares graduates to function at the highest level of nursing practice. Entry into the program is available every fall. Graduates of the DNP program focus on providing care with an emphasis on improving quality and access to underserved and diverse populations. Graduates employ abilities and skills in these areas to advocate for reasonable, rational, and data-driven health regulations, standards, and practices; sustain collaborative and strategic relationships; promote innovative, effective health care programs; and form partnerships with diverse groups to address health disparities.
Two pathways to the DNP degree are available, post-baccalaureate and post-master’s. The post-baccalaureate pathway admits BSN-prepared nurses to the DNP program with three concentrations: Family Nurse Practitioner (FNP), Psychiatric Mental Health Nurse Practitioner (PMHNP), or dual nurse practitioner specialization in Psychiatric Mental Health and Family Nurse Practitioner and is currently available to Alabama, Florida, Georgia, and Mississippi residents only. The post-master’s DNP pathway admits advanced practice nurses (nurse practitioners, nurse anesthetists, nurse midwives, and clinical nurse specialists) and nurse executives. Certification in one of the roles listed is required prior to completing 12 credit hours in the program.

3.0 grade point average, based on a 4.0 grading scale

Admission Requirements for the Post-Baccalaureate to Doctor of Nursing Practice Pathway
Admission requirements are consistent with those of the Graduate School. Applicants for the Post-Baccalaureate to Doctor of Nursing Practice (DNP) pathway will be considered on a competitive basis.
The following are requirements for admission:

1. For unconditional admission, a grade point average of at least 3.0 overall (based on a 4.0 grading scale) and 3.0 for the last 60 semester hours of undergraduate work is required.
2. Baccalaureate degree in nursing from a school of nursing that is both regionally and CCNE or CNEA accredited.
3. Current unencumbered RN licensure in Alabama, Florida, Georgia, or Mississippi.
4. Final admission is contingent upon drug and background screen results that are deemed acceptable by appropriate University officials.

Admission Requirements for the Post-Master's to Doctor of Nursing Practice Pathway
Admission requirements are consistent with those of the Graduate School. Applicants for the Post-Master’s to Doctor of Nursing Practice (DNP) pathway will be considered on a competitive basis. The following are requirements for admission:

1. A 3.0 grade point average, based on a 4.0 system in a completed graduate degree.
2. Master’s degree in nursing in an advanced nursing practice area from a regionally and CCNE or CNEA accredited school of nursing.
3. Advanced practice national certification or eligibility to sit for advanced practice national certification, and must pass certification exam prior to completing 12 credit hours of DNP coursework. Students who are not yet certified will only be considered for conditional admission.
4. Current unencumbered RN licensure in a state approved for admission. Click Here to view the states from which the College of Nursing accepts applications for admission.

5. Final admission is contingent upon drug and background screen results that are deemed acceptable by appropriate University officials.

See the Admission Criteria section of this catalog for more information.

The Doctor of Nursing Practice degree will be awarded to the student who has met the following requirements:

- GPA of 3.0 or higher
- good standing at the time of graduation
- successful completion of the scholarly project
- successful completion of the required coursework and scholarly project hours/ practice immersion experience
- attendance at one (1) DNP Intensive during program

**Transfer of Credit**

Acceptable graduate credit, earned in a regionally and CCNE or CNEA accredited institution in which the student was enrolled in the graduate school, may be transferred and applied to the requirements for a doctoral degree. Only credit that was earned during the six-year period (18 fall, spring, and summer semesters) preceding admission to the DNP program may be considered for transfer. Evaluation of credit for transfer will not be made until the student has enrolled in the Graduate School of The University of Alabama. Credit will not be accepted from any institution at which the student failed to achieve a “B” average on all graduate work attempted. A student initiates at the Office of the Graduate School the request for evaluation of graduate credit obtained at another institution. The student must also ensure that the Office of the Graduate School has an official (not faxed or copied) transcript of the credit involved. With the approval of the student’s department and the Dean of the Graduate School, may be transferred and applied to the requirements for a doctoral degree. Only credit that was earned during the six-year period (18 fall, spring, and summer semesters) prior to the date of the student’s admission to the DNP program has been earned no more than six years (18 consecutive fall, spring, and summer semesters) preceding admission to the DNP program.

**Clinical Hours for Degree Completion**

A minimum of 1000 post-baccalaureate practice hours are required for completion of the DNP degree. Students who do not have sufficient clinical hours will be required to complete additional clinical hours as determined by the Assistant Dean of the Graduate Programs prior to the beginning of DNP courses. In such cases, 60 clinical hours are the equivalent of 1 semester credit hour.

**Time limit for doctoral study**

Doctoral programs of study may include appropriate coursework that has been earned no more than six years (18 consecutive fall, spring, and summer semesters) prior to the date of the student’s admission to the doctoral program. All degree requirements must be completed within seven years (21 consecutive fall, spring, and summer semesters) of the date of the student’s admission to the doctoral program.

**Residency/Immersion**

The DNP program has a practice-based residency/practice immersion experience. The student fulfills the experience requirement while satisfactorily completing the practice-focused, comprehensive, scholarly project in the final semester of the program. NUR 739 Scholarly Practice Project is a 7 credit hour course (420 clinical hours). Note that this is in addition to 120 hours of clinical time in NUR 738.

Additional information is in the Degree Requirements section below.

**Curriculum**

The Post-Master’s to DNP pathway can be completed in a minimum of five semesters of full-time study and a minimum eight semesters of part-time study.

**Post-Master’s to Doctor of Nursing Practice Pathway**

**Full-time Post-master’s to DNP Program of Study**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>Hours</th>
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<tr>
<td>Fall</td>
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<tr>
<td>NUR 700</td>
<td>3 NUR 731</td>
<td>3 NUR 735</td>
<td>3</td>
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<tr>
<td>NUR 701</td>
<td>3 NUR 729</td>
<td>3 NUR 743</td>
<td>3</td>
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<tr>
<td>NUR 737</td>
<td>3 NUR 740</td>
<td>3 NUR 739 (1-2 clinical hours (60-120))</td>
<td>1-2</td>
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<td></td>
<td>9-10</td>
<td>7-8</td>
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<tr>
<td>Second Year</td>
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<tr>
<td>Fall</td>
<td></td>
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<td></td>
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<tr>
<td>NUR 733</td>
<td>3 NUR 739 (3-5 clinical (180-300))</td>
<td>3-5</td>
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</tr>
<tr>
<td>NUR 742</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>NUR 738 (1 didactic; 2 clinical (120))</td>
<td>3</td>
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<tr>
<td>NUR 739 (1 clinical (60-120))</td>
<td>1-2</td>
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<td></td>
<td>10-11</td>
<td>3-5</td>
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<td>Total Hours: 38-42</td>
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**Part-time Post-master’s to DNP Program of Study**

<table>
<thead>
<tr>
<th>First Year</th>
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<td>Fall</td>
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<td>NUR 700</td>
<td>3 NUR 731</td>
<td>3 NUR 735</td>
<td>3</td>
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<tr>
<td>NUR 701</td>
<td>3 NUR 729</td>
<td>3 NUR 743</td>
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<td>6</td>
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<tr>
<td>Second Year</td>
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<td>Fall</td>
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</tr>
<tr>
<td>NUR 733</td>
<td>3 NUR 740</td>
<td>3 NUR 738 (1 didactic; 2 clinical (120))</td>
<td>3</td>
</tr>
<tr>
<td>NUR 737</td>
<td>3 NUR 742</td>
<td>3 NUR 739 (1 clinical (60))</td>
<td>1</td>
</tr>
<tr>
<td>NUR 739 (1 clinical (60))</td>
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<td></td>
<td>6</td>
<td>7</td>
<td>4</td>
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<tr>
<td>Third Year</td>
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<tr>
<td>Fall</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>NUR 739 (3 clinical (180))</td>
<td>3 NUR 739 (2 clinical (120))</td>
<td>3</td>
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<tr>
<td></td>
<td>2</td>
<td>2</td>
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<tr>
<td>Total Hours: 40</td>
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</tbody>
</table>
A minimum of 7 credit hours in NUR 739 Scholarly Practice Project is required to complete the Scholarly Project. If NUR 739 requirements are not satisfied by completion of 7 credit hours, then the student must enroll in subsequent semesters for at least 1 credit hour of NUR 739 until project completion/graduation. At least 1 hour of NUR 739 is required the semester the student will graduate.

**Family Nurse Practitioner Certificate**

Currently only residents of Alabama, Florida, Georgia, and Mississippi are eligible for the Nurse Practitioner certificate.

The nurse practitioner postgraduate certificate program builds on the graduate level nursing competencies and knowledge base. Nurses who are already prepared at either the master’s or doctorate level may apply for the postgraduate certificate program with advanced specialization as a family nurse practitioner. Students in the postgraduate certificate program will enroll in existing nurse practitioner population-focused courses, but they will not be required to complete master’s graduate nursing core courses, such as informatics or theory, or direct care core courses (e.g., advanced pathophysiology [across the lifespan], advanced health assessment [across the lifespan], and advanced pharmacology) if they were completed in a prior master’s or doctoral program.

**Admission Requirements for the Post-Graduate Certificate: Family Nurse Practitioner**

Admission requirements are consistent with those of the Graduate School. Applicants for the nurse practitioner post-graduate certificate will be considered on a competitive basis. Nurses who are interested in the nurse practitioner post-graduate certificate are encouraged to contact the Capstone College of Nursing (CCN) Graduate Recruitment and Retention Liaison.

Currently only residents of Alabama, Florida, Georgia, and Mississippi are eligible for the Nurse Practitioner certificate.

The following are requirements for admission:

- For unconditional admission, a grade point average of at least 3.0 overall (based on a 4.0 grading scale) and 3.0 for the last 60 semester hours of undergraduate work is required.
- Baccalaureate degree in nursing from a school of nursing that is both regionally and CCNE or CNEA accredited.
- Current unencumbered RN licensure in Alabama, Florida, Georgia, or Mississippi.
- Final admission is contingent upon drug and background screen results that are deemed acceptable by appropriate officials.

**Application for Certificate**

Candidates must apply in writing to the Senior Associate Dean for Academic Programs in the Capstone College of Nursing one semester before completion of certificate requirements is anticipated.

**Post-Graduate Certificate: Family Nurse Practitioner Sample Program of Study**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 1</td>
<td>NUR 590</td>
<td>Family NP Residency (3 clinical (225))</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>3</td>
</tr>
</tbody>
</table>

The student’s transcripts will be assessed for the following courses. In absence of transcript credit, the courses must be completed.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 1</td>
<td>NUR 588</td>
<td>Family Nurse Practitioner II (2 didactic; 2 clinical (150))</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>4</td>
</tr>
<tr>
<td>Spring 1</td>
<td>NUR 501</td>
<td>Theor Models Advanced Nursing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 502</td>
<td>Issues in Community Health</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 503</td>
<td>Nursing Informatics Healthcare</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 505</td>
<td>Advanced Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 521</td>
<td>Advanced Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 522</td>
<td>Human Relations Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 529</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 580</td>
<td>Fiscal Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Nursing Case Management Certificate**

Click here to view the states from which the Capstone College of Nursing currently accepts applications for admission.

The post-master’s certificate program in Nursing Case Management, which is based on the MSN program, is designed to prepare nurses to practice as case managers for rural populations. Nurses who are already prepared at the master’s level for roles such as nurse practitioners, clinical specialists, or nurse administrators and who need case management knowledge and expertise to enact the case manager role can apply for the post-master’s certificate program. Students in the post-master’s certificate program will enroll in the existing case management courses, but they will not be required to complete the nursing core courses, such as research and theory, if they were completed in the master’s program.

**Admission Requirements**

Admission requirements are consistent with those of the Graduate School. Applicants for the post-master’s certificate in Nursing Case Management will be considered on a competitive basis. Nurses who are interested in the Post-Masters Certificate in Nursing Case Management are encouraged to contact the Capstone College of Nursing (CCN) Graduate Recruitment and Retention Liaison.

The following are requirements for admission:

1. Master’s degree in nursing from a regionally and CCNE or CNEA accredited graduate program in nursing or a master’s degree in a health-related field with a baccalaureate degree in nursing from an accredited program.
2. For unconditional admission, a grade point average of at least 3.0 overall (based on a 4.0 grading scale) or 3.0 for the last 60 semester hours of graduate work is required.
3. For conditional admission, a grade point average of at least 2.5 overall (based on a 4.0 grading scale) for undergraduate work, and a
score of at least 300 on the GRE general test OR at least in the 40th percentile on the Miller Analogies Test (MAT) is required.

4. Current unencumbered RN licensure in the United States. Click here to view the states from which the Capstone College of Nursing currently accepts applications for admission.

5. Final admission is contingent upon drug and background screen results that are deemed acceptable by appropriate officials.

See the Admission Criteria section of this catalog for more information.

Application for Certificate
Candidates must apply in writing to the Senior Associate Dean for Academic Programs in the Capstone College of Nursing one semester before completion of certificate requirements is anticipated.

Sample Program of Study

First Year

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>NUR 522</td>
<td>3</td>
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<tr>
<td>NUR 520</td>
<td>3</td>
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<tr>
<td>Summer</td>
<td></td>
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<tr>
<td>NUR 530</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 16

The student’s transcript and portfolio will be assessed for the following courses or proven expertise. In the absence of transcript credit or expertise evidenced via the portfolio, the below courses must be completed.

Nursing, MSN

Since its inception, the graduate program has sought out excellent nurses in pursuit of advanced nursing education. Baccalaureate-prepared nurses have the option of multiple concentrations in the Master’s of Science in Nursing (MSN) program: Nurse Case Manager, Clinical Nurse Leader, Nurse Administrator, Family Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner, and Dual Psychiatric Mental Health and Family Nurse Practitioner. A post-master’s certificate in Nursing Case Management is also available. In addition, there is a postgraduate certificate program with Family Nurse Practitioner and Psychiatric Mental Health Nurse Practitioner options. For the registered nurse (RN) who holds an associate degree in nursing and meets the required admission criteria, we offer an RN to BSN program (p. 932) with a pathway to the MSN program.

Admission Requirements

Applicants for the Master’s of Science in Nursing (MSN) degree program will be considered on a competitive basis. The following are requirements for admission into all graduate level nursing programs, but a complete description of Graduate School Admission Criteria (p. 11) is found in the Graduate Catalog.

The graduate faculty of the Capstone College of Nursing (CCN) has identified the skills and professional behaviors that are essential to pursue a course of study and to practice in Clinical Nurse Leader, Nurse Case Manager, Nurse Administrator, or Nurse Practitioner roles. These skills include but are not limited to the skills presented in The Essentials of Master’s Education in Nursing (2011), a publication of the American Association of Colleges of Nursing. If these skills and professional behaviors cannot be developed by the individual, either unassisted or with the dependable use of assistive devices, the faculty reserves the right to decline an individual’s admission or to disenroll the student from clinical courses. A copy of The Essentials of Master’s Education in Nursing (2011) is available upon request from the College’s Program Records Office.

Admission Requirements for Nurse Case Manager, Clinical Nurse Leader, and Nurse Administrator Concentrations

Admission requirements are consistent with those of the Graduate School. Applicants for the MSN Program will be considered on a competitive basis. Nurses who are interested in the Nurse Case Manager, Clinical Nurse Leader, and Nurse Administrator concentrations are encouraged to contact the Graduate Recruitment and Retention Liaison.

The following are requirements for admission:

- For unconditional admission, a grade point average of at least 3.0 overall (based on a 4.0 grading scale) or 3.0 for the last 60 semester hours of undergraduate work is required.
- For conditional admission, a grade point average of at least 2.5 overall (based on a 4.0 grading scale) for undergraduate work, and a score of at least 300 on the revised Graduate Record Exam (GRE) OR at least in the 40th percentile on the Miller Analogies Test (MAT) is required.
- Baccalaureate degree in nursing from a school of nursing that is both regionally and CCNE or CNEA accredited.
- Current unencumbered RN licensure in the United States.
- Final admission is contingent upon drug and background screen results that are deemed acceptable by appropriate officials.

Admission Requirements for Nurse Practitioner Concentrations

Admission requirements are consistent with those of the Graduate School. Applicants for the MSN Program will be considered on a competitive basis. Nurses who are interested in the Nurse Practitioner Concentrations are encouraged to contact the Graduate Recruitment and Retention Liaison.

Currently only residents of Alabama, Florida, Georgia, and Mississippi are eligible for the Nurse Practitioner concentrations.

The following are requirements for admission:
The Capstone College of Nursing offers the distance-based MSN program with all courses offered online. The Nurse Case Manager concentration prepares nurses to assume leadership positions in health care administration and to coordinate and administer case management services at the macrosystems level. Case management has been defined as a "collaborative process which assesses, plans, implements, coordinates, monitors and evaluates options and services to meet an individual's health needs through communication and available resources to promote quality, cost-effective outcomes." 1 Graduates of this program will be able to practice in a variety of settings, assuming leadership positions in health care organizations.

Note: This program requires a clinical practicum (540 practicum hours) and it is the student's responsibility to identify a site with an appropriate clinical preceptor. Prior to the clinical practicum the student will start the process of obtaining a CCN Letter of Agreement (LOA) or a Clinical Affiliation Agreement with the agency. No clinical practice will take place until the student has been notified by CCN of approval.


Degree Requirements
The MSN degree will be awarded to the student who has met the following requirements:

• GPA of 3.0 or higher
• Good standing at the time of graduation
• Successful completion of the required coursework

Students may choose to complete a thesis as described below:

Thesis option
A thesis is original research conducted by one student and directed by a graduate committee. The student is awarded six semester hours of thesis credit for a successfully completed thesis. An oral public defense of the thesis is required. The thesis must conform to the guidelines of the Graduate School.

Curriculum
The MSN program with a Nurse Case Manager concentration can be completed in one year of full-time study or two or more years of part-time study.

MSN Program: Nurse Case Manager Sample Full-time Program of Study

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spring</td>
<td>Summer</td>
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</tr>
<tr>
<td>NUR 501</td>
<td>3 CHS 520</td>
<td>3 NUR 502</td>
<td>2</td>
</tr>
<tr>
<td>NUR 503</td>
<td>3 NUR 520 (3 didactic; 1 clinical hour (60))</td>
<td>4 NUR 530 (6 clinical (360))</td>
<td>6</td>
</tr>
<tr>
<td>NUR 505</td>
<td>3 NUR 521</td>
<td>3 NUR 580 (2 didactic; 1 clinical (60))</td>
<td>3</td>
</tr>
<tr>
<td>NUR 522</td>
<td>3 NUR 581</td>
<td>3 NUR 599 (Optional)</td>
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</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 599 (Optional)</td>
<td>15</td>
<td>16</td>
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</table>

Total Hours: 45

MSN Program: Nurse Case Manager Sample Part-time Program of Study

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
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<tr>
<td></td>
<td>Spring</td>
<td>Summer</td>
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</tr>
<tr>
<td>NUR 501</td>
<td>3 CHS 520¹</td>
<td>3 NUR 502</td>
<td>2</td>
</tr>
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<td>NUR 503</td>
<td>3 NUR 581</td>
<td>3 NUR 505</td>
<td>3</td>
</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 599 (Optional)</td>
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Second Year

<table>
<thead>
<tr>
<th>Hours</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 521</td>
<td>3 NUR 520 (3 didactic; 1 clinical (60 hours))</td>
<td>4 NUR 530 (3 clinical hours (180))</td>
</tr>
<tr>
<td>NUR 522 (2 didactic; 1 clinical (60))</td>
<td>3 NUR 530 (3 clinical hours (180))</td>
<td>3 NUR 580 (2 didactic; 1 clinical (60))</td>
</tr>
<tr>
<td>NUR 599 (Optional)</td>
<td>3 NUR 599 (Optional)</td>
<td>3</td>
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</table>

Total Hours: 45

¹ It is strongly recommended that NUR 501 Theor Models Advanced Nursing, NUR 503 Nursing Informatics Healthcare, NUR 529 Advanced Pathophysiology are taken as prerequisites and NUR 581 Research & Stats Health Prof is taken as a pre- or co-requisite.

Master's of Science in Nursing Program: Clinical Nurse Leader

Click here to view the states from which the Capstone College of Nursing currently accepts applications for admission.

The Capstone College of Nursing offers the distance-based MSN Program with all courses offered online. The Clinical Nurse Leader (CNL) is a master's prepared generalist, accountable for clinical and health care environmental outcomes. The CNL functions at the microsystem level; oversees care coordination of a distinct group of patients; serves as a
resource for clinical decision making, and serves as a lateral integrator of care. The CNL puts evidence-based practice into action, collects and evaluates patient outcomes, assesses cohort risk and has the decision-making authority to change care plans when necessary.

This clinician functions as part of an interprofessional team by communicating, planning and implementing care directly with other health care professionals. The CNL is a leader in the health care delivery system across all settings in which health care is delivered. Upon certification, the CNL may assume this role in a variety of health care settings.

**Note:** This program requires a clinical immersion (540 clinical immersion hours) and it is the student's responsibility to identify a site with an appropriate clinical preceptor. Prior to the clinical immersion the student will start the process of obtaining a CCN Letter of Agreement (LOA) or a Clinical Affiliation Agreement with the agency. No clinical practice will take place until the student has been notified by CCN of approval.

### Degree Requirements

The MSN degree will be awarded to the student who has met the following requirements:

- GPA of 3.0 or higher
- Good standing at the time of graduation
- Successful completion of the required coursework

Students may choose to complete a thesis as described below:

#### Thesis option

A thesis is original research conducted by one student and directed by a graduate committee. The student is awarded six semester hours of thesis credit for a successfully completed thesis. An oral public defense of the thesis is required. The thesis must conform to the guidelines of the Graduate School.

### Curriculum

The MSN program with a CNL concentration can be completed in one year of full-time study or two or more years of part-time study.

#### MSN Program: Clinical Nurse Leader Sample Full-time Program of Study

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NUR 501</td>
<td>3 CHS 520</td>
<td>3 NUR 502</td>
<td>2</td>
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<td></td>
</tr>
<tr>
<td>NUR 503</td>
<td>3 NUR 521</td>
<td>3 NUR 535 (6 credit hours can be taken spring 1)</td>
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<tr>
<td>NUR 505</td>
<td>3 NUR 525 (3 Didactic; 1 clinical (60))</td>
<td>4 NUR 580</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 522</td>
<td>3 NUR 581</td>
<td>3 NUR 599 (Optional)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 599 (Optional)</td>
<td></td>
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| Total Hours: 45 |

#### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 521</td>
<td>3 NUR 525 (3 didactic; 1 clinical (60))</td>
<td>4 NUR 535 (3 clinical (180))</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 522</td>
<td>3 NUR 535 (3 clinical (180))</td>
<td>3 NUR 580</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 599 (Optional)</td>
<td>3 NUR 599 (Optional)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours: 45 |

1 It is strongly recommended that NUR 501 Theor Models Advanced Nursing, NUR 503 Nursing Informatics Healthcare, NUR 529 Advanced Pathophysiology are taken as perquisites and NUR 581 Research & Stats Health Prof is taken as a pre- or co-requisite.

### Master's of Science in Nursing Program: Nurse Practitioner Concentrations

*Click here to view the states from which the Capstone College of Nursing currently accepts applications for admission.*

**NOTE:** Currently, only baccalaureate prepared registered nurses who are residents of Alabama, Florida, Georgia, and Mississippi are eligible for admission to Nurse Practitioner (NP) concentrations.

The Capstone College of Nursing (CCN) offers the online MSN degree with the following NP concentrations: Family Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner, and Dual Psychiatric Mental Health and Family Nurse Practitioner. Students complete coursework online and attend two on-campus sessions during their program of study. Students are expected to find clinical sites and preceptors; however, CCN will assist students with this process to secure a CCN Letter of Agreement (LOA) or Clinical Affiliation Agreement with the healthcare agency. No clinical practice will take place until the student has been notified by CCN of approval.

Nurse Practitioners are health promotion and disease prevention experts who manage and diagnose acute and chronic illnesses. Nurse Practitioners provide quality, safe, cost-effective care. Services provided by NPs include, assessing, diagnosing, treating, and managing patients’ health care needs.

### Degree Requirements

The MSN degree will be awarded to the student who has met the following requirements:

- GPA of 3.0 or higher
- Good standing at the time of graduation
- Successful completion of the required coursework
Students may choose to complete a thesis as described below:

**Thesis option**
A thesis is original research conducted by one student and directed by a graduate committee. The student is awarded six semester hours of thesis credit for a successfully completed thesis. An oral public defense of the thesis is required. The thesis must conform to the guidelines of the Graduate School.

**Curriculum**
The MSN Program with a Nurse Practitioner concentration can be completed in two years or less of full-time study.

### MSN Program: Family Nurse Practitioner Sample Full-time Program of Study

#### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>NUR 503</td>
<td>3</td>
<td>NUR 504</td>
<td>2 NUR 526 (3 didactic; 1 clinical (60 indirect patient care))</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 505</td>
<td>3</td>
<td>NUR 521</td>
<td>3 NUR 586 (2 didactic; 2 clinical (150))</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 522 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9 8 8

#### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 501</td>
<td>3</td>
<td>NUR 504</td>
<td>2 NUR 582 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>2</td>
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</tr>
<tr>
<td>NUR 505</td>
<td>3</td>
<td>NUR 521</td>
<td>3 NUR 585 (2 didactic; 1 clinical (150) hours a week)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 526</td>
<td>4 NUR 586 (2 didactic; 2 clinical (150) hours a week)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 599</td>
<td>3 NUR 599</td>
<td>3 NUR 589 (clinical. 225 hours of clinical / 10 hours a week)</td>
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</table>

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**Total Hours: 46**

### Psychiatric Mental Health and Family Nurse Practitioner Sample Program of Study

#### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 503</td>
<td>3</td>
<td>NUR 504</td>
<td>2 NUR 582 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NUR 505</td>
<td>3</td>
<td>NUR 521</td>
<td>3 NUR 585 (2 didactic; 1 clinical (150) hours a week)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 526</td>
<td>4 NUR 586 (2 didactic; 2 clinical (150) hours a week)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 599</td>
<td>3 NUR 599</td>
<td>3 NUR 589 (clinical. 225 hours of clinical / 10 hours a week)</td>
<td>3</td>
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</tbody>
</table>

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**Total Hours: 46**

### MSN Program: Family Nurse Practitioner Sample Part-time Program of Study

#### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 505</td>
<td>3</td>
<td>NUR 521</td>
<td>3 NUR 502</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3 NUR 522 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>3 NUR 526 (3 didactic; 1 clinical (60 indirect patient care))</td>
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6 6 6

**Total Hours: 53**
### Master's of Science in Nursing: Nurse Administrator

**Click here to view the states from which the Capstone College of Nursing currently accepts applications for admission.**

The Capstone College of Nursing offers the distance-based MSN program with all courses offered online. The Nurse Administrator concentration is intended to prepare a nurse leader by providing advanced education in health care finance, shared governance, and emerging leader competencies. Nurse administrators manage several departments or entire organizations. Nurse administrators hold a variety of executive level positions, including director of nursing services, clinical coordinator, and chief nurse executive. They oversee several departments and report directly to senior leadership. A nurse administrator concentrates primarily on policy and organizational operations issues such as nursing shortages and spends a majority of time attending meetings, preparing reports, and developing programs and policies to ensure safety and high quality nursing care. Nurse administrators are less likely to deal directly with patients or family members, instead supervising mid-level managers and working with fellow members of the senior leadership team.

**Note:** This program requires a clinical practicum (540 clinical practicum hours) and it is the student's responsibility to identify a site with an appropriate clinical preceptor. Prior to the clinical practicum, the student will start the process of obtaining a CCN Letter of Agreement (LOA) or a Clinical Affiliation Agreement with the agency. No clinical practice will take place until the student has been notified by CCN of approval.

#### Degree Requirements

The MSN degree will be awarded to the student who has met the following requirements:

- GPA of 3.0 or higher
- Good standing at the time of graduation
- Successful completion of the required coursework

Students may choose to complete a thesis as described below:

#### Thesis option

A thesis is original research conducted by one student and directed by a graduate committee. The student is awarded six semester hours of thesis credit for a successfully completed thesis. An oral public defense of the thesis is required. The thesis must conform to the guidelines of the Graduate School.

#### Curriculum

The MSN program with a Nurse Administrator concentration can be completed in one year of full-time study or two years of part-time study.

### MSN Program: Nurse Administrator Sample Full-time Program of Study

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
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<tbody>
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<td>NUR 503</td>
<td>3</td>
<td>NUR 504</td>
<td>2</td>
<td>NUR 526</td>
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<td></td>
</tr>
<tr>
<td>NUR 505</td>
<td>3</td>
<td>NUR 521</td>
<td>3</td>
<td>NUR 526</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3</td>
<td>NUR 522 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>3</td>
<td>NUR 526 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Second Year</td>
<td>Fall</td>
<td>Hours</td>
<td>Spring</td>
<td>Hours</td>
<td>Summer</td>
<td>Hours</td>
</tr>
<tr>
<td>NUR 501</td>
<td>2</td>
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<td>3</td>
<td>NUR 580 (2 didactic; 1 clinical (150))</td>
<td>4</td>
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</tr>
<tr>
<td>NUR 502</td>
<td>3</td>
<td>NUR 561 (3 clinical (225))</td>
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<tr>
<td>NUR 529</td>
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<td>NUR 582 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>2</td>
<td>NUR 585 (3 didactic; 2 clinical (150))</td>
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Total Hours: 42

### Psychiatric Mental Health Nurse Practitioner Sample Full-time Program of Study

<table>
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<tr>
<th>First Year</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
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<tbody>
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<td>NUR 504</td>
<td>2</td>
<td>NUR 526</td>
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<tr>
<td>NUR 505</td>
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<td>NUR 521</td>
<td>3</td>
<td>NUR 526</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>3</td>
<td>NUR 522 (2 didactic; 1 clinical (60 indirect patient care))</td>
<td>3</td>
<td>NUR 526 (2 didactic; 1 clinical (60 indirect patient care))</td>
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Total Hours: 48

### Psychiatric Mental Health Nurse Practitioner Sample Part-time Program of Study

<table>
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<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
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<td>2</td>
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<td>NUR 503</td>
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<td>NUR 511 (2 didactic; 1 clinical (60 indirect patient care))</td>
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<td>NUR 538 (1 didactic; 3 clinical (180))</td>
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<tr>
<td>Third Year</td>
<td>Fall</td>
<td>Hours</td>
<td>Spring</td>
<td>Hours</td>
<td>Summer</td>
<td>Hours</td>
</tr>
<tr>
<td>NUR 587 (2 didactic; 2 clinical (150))</td>
<td>4</td>
<td>NUR 589 (3 clinical (225))</td>
<td>3</td>
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<td>NUR 599 (Optional)</td>
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<td>NUR 599 (Optional)</td>
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Total Hours: 48
MSN Program: Nurse Administrator Sample Part-time Program of Study

First Year

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<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
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<td>3 CHS 520</td>
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<td>CHS 520</td>
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<td>3</td>
<td>NUR 581</td>
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<tr>
<td>NUR 502</td>
<td>2 NUR 527 (3 didactic; 1 clinical (60))</td>
<td>4 NUR 538 (1 didactic; 3 clinical (180))</td>
<td>4</td>
<td>NUR 599 (Optional)</td>
<td>3</td>
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<tr>
<td>NUR 522 (2 didactic; 1 clinical (60))</td>
<td>3 NUR 537 (1 didactic; 3 clinical (180))</td>
<td>4 NUR 599 (Optional)</td>
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<td>NUR 599 (Optional)</td>
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Total Hours: 38

Second Year

<table>
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<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NUR 502</td>
<td>2 NUR 527 (3 didactic; 1 clinical (60))</td>
<td>4 NUR 538 (1 didactic; 3 clinical (180))</td>
<td>4</td>
<td>NUR 599 (Optional)</td>
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<td>3 NUR 537 (1 didactic; 3 clinical (180))</td>
<td>4 NUR 599 (Optional)</td>
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<td>NUR 503</td>
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<td>NUR 581</td>
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Total Hours: 38

RN/BSN Pathway to MSN (Phase Two)

Nurse Case Manager

<table>
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<th>Hours</th>
<th>Spring 2</th>
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<th>Summer 3</th>
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<td>NUR 501</td>
<td>Theoretical Models for Advanced Nursing Practice with Rural Populations</td>
<td>3</td>
<td>NUR 520</td>
<td>Evidence-Based Practice Role and Processes for Case Manager (60 clinical hours)</td>
<td>4</td>
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<tr>
<td>NUR 502</td>
<td>Issues in Community Health for Rural Populations</td>
<td>2</td>
<td>NUR 530</td>
<td>Case Management Practicum (180 clinical hours)</td>
<td>3</td>
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<tr>
<td>NUR 503</td>
<td>Nursing Informatics in Healthcare</td>
<td>3</td>
<td>NUR 527</td>
<td>Evidence-Based Practice Roles and Processes for Nurse Administrators (60 clinical hours)</td>
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<td>NUR 537</td>
<td>Nurse Administrator: Practicum I (180 clinical hours)</td>
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Complete MSN requirements; MSN degree awarded

Total Hours: 18

Clinical Nurse Leader

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<th>Fall 2</th>
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<th>Summer 3</th>
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Complete MSN requirements; MSN degree awarded

Total Hours: 18

Psychiatric Mental Health Nurse Practitioner Certificate

Currently only residents of Alabama, Florida, Georgia, and Mississippi are eligible for the Nurse Practitioner certificate.

The nurse practitioner postgraduate certificate program builds on the graduate level nursing competencies and knowledge base. Nurses who are already prepared at either the master’s or doctorate level may apply for the postgraduate certificate program with advanced specialization as a psychiatric mental health nurse practitioner. Students in the postgraduate certificate program will enroll in existing nurse practitioner population-focused courses, but they will not be required to complete master’s graduate nursing core courses, such as informatics or theory, or direct care core courses (e.g., advanced pathophysiology [across the lifespan], advanced health assessment [across the lifespan], and

NUR 505 | Evidence-Based Practice Role and Processes for Nurse Administrators (60 clinical hours) | 4 |
| NUR 537 | Nurse Administrator: Practicum I (180 clinical hours) | 4 |
|       |       |       |       | NUR 538 | Nurse Administrator: Practicum II (180 clinical hours) | 4 |
|       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |

Complete MSN requirements; MSN degree awarded

Total Hours: 18

1 These courses require a field placement component and it is the student’s responsibility to secure a site for the field placement.
advanced pharmacology) if they were completed in a prior master’s or doctoral program.

Admission Requirements for the Postgraduate Certificate: Psychiatric Mental Health Nurse Practitioner

Admission requirements are consistent with those of the Graduate School. Applicants for the nurse practitioner postgraduate certificate will be considered on a competitive basis. Nurses who are interested in the nurse practitioner postgraduate certificate are encouraged to contact the Capstone College of Nursing (CCN) Graduate Recruitment and Retention Liaison.

Currently only residents of Alabama, Florida, Georgia and Mississippi are eligible for the Nurse Practitioner certificate.

The following are requirements for admission:

- For unconditional admission, a grade point average of at least 3.0 overall (based on a 4.0 grading scale) and 3.0 for the last 60 semester hours of undergraduate work is required.
- Baccalaureate degree in nursing from a school of nursing that is both regionally, and CCNE or CNEA accredited.
- Current unencumbered RN licensure in Alabama, Florida, Georgia, or Mississippi.
- Final admission is contingent upon drug and background screen results that are deemed acceptable by appropriate officials.

Application for Certificate

Candidates must apply in writing to the Senior Associate Dean for Academic Programs in the Capstone College of Nursing one semester before completion of certificate requirements is anticipated.

Postgraduate Certificate: Psychiatric Mental Health Nurse Practitioner Sample Program of Study

**Summer 1**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NUR 526</td>
<td>Evidence-Based Practice Roles and Processes for Nurse Practitioners (3 didactic; 1 clinical (60))</td>
<td>4</td>
</tr>
<tr>
<td>NUR 582</td>
<td>Psych. Treatment Modalities</td>
<td>2</td>
</tr>
<tr>
<td>NUR 585</td>
<td>Psychiatric Mental Health NP I (2 didactic; 2 clinical (150))</td>
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**Fall 1**

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<tr>
<th>Course Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>NUR 587</td>
<td>Psych. Mental Health NP II (2 didactic; 2 clinical (150))</td>
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**Spring 1**

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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NUR 589</td>
<td>Psychiatric MH NP Residency (3 clinical (225))</td>
<td>3</td>
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The student’s transcripts will be assessed for the following courses. In the absence of transcript credit, the courses must be completed.

- NUR 501 Theor Models Advanced Nursing 3
- NUR 502 Issues in Community Health 2
- NUR 503 Nursing Informatics Healthcare 3
- NUR 505 Advanced Health Assessment 3
- NUR 521 Advanced Pharmacology 3
- NUR 522 Human Relations Management 3
- NUR 529 Advanced Pathophysiology 3
- NUR 580 Fiscal Resource Management 3

School of Social Work

Degree Programs

Social Work, MSW (p. 588)

The School of Social Work offers a Master of Social Work and two coordinated degree programs. The MSW/MPH is offered in coordination with UAB Public Health. The MSW/JD is offered in coordination with The University of Alabama Law School. More information can be found at the Social Work, MSW page (link above).

Social Work, PhD (p. 596)

The PhD program may be pursued concurrently with the MSW program.

Admission Requirements

Regular Admission

An applicant whose credentials meet both of the following minimum requirements may be considered for regular admission:

1. **GPA requirement:** The applicant must have an undergraduate grade point average of 3.0 overall, 3.0 for the last 60 semester hours in a degree program, or 3.0 for a completed graduate degree program.
2. **GPA Standards:** All applicants must have at least a 2.5 (on a 4.0 scale) overall GPA.
3. **Entrance exam score requirement:** If the undergraduate grade point average is below a 3.0 for both the overall AND last 60 hours, the School of Social Work requires submission of test scores. The applicant must have a 300 on the GRE test or a score at the 50th percentile on the MAT. Admission test scores must be less than five years old. An applicant who wishes to be nominated by his or her department for a Graduate Council Fellowship is strongly encouraged to submit a score on the Graduate Record Examination (GRE) General Test or entrance examination appropriate to the graduate program of interest.

Please note no academic credit, course waivers, or credit for field practicum shall be granted for life experience or previous work experience.

International Admission Requirements

International Student Admission

International students must meet the Graduate School’s requirements for admission (see above), including the equivalent of a four-year bachelor’s degree from an accredited institution.

**Test Scores:** A student whose first language is not English must submit an official score report for the Test of English as a Foreign Language (TOEFL), the Pearson test of English (PTE), or must have earned a degree from an accredited U.S. college or university within the past 3 years.

1. **TOEFL minimum score is a 550 on the paper-based test or a 79 on the internet-based test.**
2. **IELTS minimum score for admission is a 6.5.**
3. **PTE minimum score for admission is a 59.**

Note: Scores must be less than two years old at the time of intended initial enrollment at The University of Alabama.

Please note no academic credit, course waivers, or credit for field practicum shall be granted for life experience or previous work experience.
Program Options: 42 credit hour or 60 credit hour

Advanced Standing (42 credit hour)

- Students holding a Bachelor of Social Work degree from a CSWE accredited institution.
- Admission requires a "B" average or better in all professional foundation Social Work courses including field education, with no more than one "C" in upper level Social Work courses.
- Offered Spring and Summer terms only

Two Year (60 credit hour)

- Students who hold a bachelors degree from a regionally accredited institution.
- Students who do not meet Advanced Standing criteria must apply to the 60 hour program.
- Offered Summer and Fall terms only

Applicants can find more information on program deadlines and application instructions on the School of Social Work website.

Application Fee

The application fee is $60 for U.S. citizens and permanent residents and $75 for international students. The application fee is waived for the following groups:

1. Veterans and current members of the US military (please send Angela Abrams (ayabrams@ua.edu) your DD 214 or current assignment orders as appropriate).
2. Ronald E. McNair Postbaccalaureate Achievement Program students (please contact Angela Abrams (ayabrams@ua.edu) for more details).
3. University of Alabama undergraduates applying to a graduate program in the same subject area. To qualify for this application fee waiver a student must have no time break between the undergraduate and graduate program and have an overall GPA of 3.0 or greater.
4. Applicants who have previously enrolled in Graduate School at The University of Alabama.

Applicants interested in transferring graduate credit to the MSW program from another institution or graduate program must make a formal request after admission to the program. The request is initiated in the Graduate School with the form for Request for Transfer of Graduate Credit. Please note the School of Social Work allows a maximum of 9 hours of transfer work for the 42 hour program and a maximum of 12 hours of transfer work for the 60 hour program upon approval by the program director.

Applicants can find Application Instructions on the School of Social Work website.

Students will have an opportunity to apply for field in both the BSW and MSW programs. We place students using a holistic perspective. Not only do we consider input from students, but we also consult with faculty, advisors, and the Field Committee.

Most students have many questions about practicum. The Field Office is always available to answer questions you may have. If there is anything that is unclear or if you have specific questions regarding your situation, do not hesitate to contact the Field Office.

Field Education Links

Student Information
Washington, D.C Program
SW510 Human Behav Social Envir I  
Hours 3  
Critical concepts, theories, and research related to human biopsychosocial development across the life span; human development and behavior in the environmental contexts of family, groups, organizations, and communities; and the impact of human diversity on human development and behavior. This course is part of a two course sequence and focuses on earlier stages of human development from conception through adolescence.

SW511 Human Behav Social Envir II  
Hours 2  
This course introduces students to an overarching conceptual framework and selected theories for understanding human behavior across the life course. This course is part of a two-course sequence and focuses on the later stages of human development from young adulthood to advanced old age.

Prerequisite(s): SW 510

SW513 Social Work Practice in Health Care  
Hours 3  
This course prepares students for advanced social work practice in health care settings. Using the Life Course Perspective, health and health care issues relevant to health care social work are addressed.

Prerequisite(s): Set 1 (60 hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW514 Chem Depend Knowledge Interven  
Hours 3  
This survey course introduces students to major theories of substance use, information concerning the physiological and psychological consequences of this use, and information concerning the effects of this use on families and communities. Selected state, international, and federal policies regarding the control of drugs are reviewed. The course includes an overview of several models of prevention and intervention, with specific attention being paid to their application to special populations such as the homeless, clients from different cultures, and clients of different sexual orientations.

Prerequisite(s): Set 1 (60 hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW515 Psychopathology  
Hours 3  
Presents diagnostic criteria used in recognition and treatment of mental disorders, and theory and research on the etiology of these disorders.

Prerequisite(s): Set 1 SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW523 Family Preservation  
Hours 3  
Overview of family preservation theory and practice. Students demonstrate skills with high risk children and families in their home setting.

Prerequisite(s): Set 1 (60 hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced Standing) SW 570, SW 577, SW 578, SW 579

SW525 Evaluation Research  
Hours 3  
Students learn to design a practice or program evaluation project, demonstrating the link between designing and conducting research and the practice of social work.

Prerequisite(s): Set 1 (60 hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW526 "Isms" & Advocacy In Social Work  
Hours 3  
Introduction to various forms of oppression, social injustice, and advocacy to prevent and intervene.

Prerequisite(s): Set 1 (60 Hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW528 Spirituality In Social Work Practice  
Hours 3  
Provides an overview of major issues relevant to spiritually sensitive social work practice with emphasis on the role of spirituality in interventions.

Prerequisite(s): Set 1 (60 Hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW529 Advanced Clinical Social Work Practice  
Hours 3  
The course provides advanced level information about the application of selected theoretical frameworks and models of practice, assessment strategies and techniques, the formulation of treatment plans, practice interventions, and practice evaluation.

Prerequisite(s): Set 1 (60 Hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW532 Social Work Practice with Adults in Mental Health  
Hours 1-3  
This course emphasizes evidence-based practice models and methods of intervention for effective social work practice with adults experiencing mental health problems.

Prerequisite(s): SW590 or (SW570 and SW577 and SW578 and SW579)

SW533 Models and Methods of Gerontological Social Work Practice  
Hours 1-3  
Focuses on evidence-based practice models and methods of social work intervention with older persons and their families.

Prerequisite(s): SW590 or (SW570 and SW577 and SW578 and SW579)

SW534 Integrative Seminar  
Hours 1  
Integration of foundation course content and field education.

Prerequisite(s): SW 500 and SW 510 and SW 540. Corequisite: SW 590

Prerequisite(s) with concurrency: SW 511 and SW 570 and SW 541 and SW 542
SW536 Social Service Program and Agency Administration  
Hours 3  
Students learn selected theoretical frameworks and apply the knowledge and skills for administration of social service programs and agencies.
Prerequisite(s): Set 1 (60 Hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW537 Forensic Social Work  
Hours 3  
This course is designed to provide students with the knowledge and critical thinking skills necessary for specialized practice in the area of forensic social work.
Prerequisite(s): Set 1 (60 Hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579

SW540 SW Practice with Individuals and Families  
Hours 1-3  
Theory and practice of social work with individuals and families are explored.
Prerequisite(s) with concurrency: SW 510

SW541 Sw Practice With Groups  
Hours 1-3  
The course provides a framework for systematic study of components and issues involved in the practice of social work with groups.
Prerequisite(s) with concurrency: SW 510

SW542 Social Work Practice with Communities  
Hours 1-3  
Exploration of theories of social work practice for intervention at the community level, including selected macro-models of practice, and community practice within human-service organizations.
Prerequisite(s): SW 510 With Concurrency
Prerequisite(s) with concurrency: SW 510

SW549 Crisis Intervention  
Hours 3  
Focuses on treatment theories and models of intervention that provide a focused approach to the client in crisis.
Prerequisite(s): Set 1 (60 hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -Or- SW 570, SW 577, SW 578, SW 579

SW553 Independent Study  
Hours 1-6  
Independent learning experience, under faculty direction, with a contract for an outcome such as a publishable research document.
Prerequisite(s): SW 500,SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570, SW 577, SW 578, SW 579

SW557 Selected Topics in Social Work Practice  
Hours 3  
Intensive study of an area of or specific approach to social work practice. Topics vary from semester to semester. May be repeated.

SW559 Pediatric Pulmonary Health Care  
Hours 3  
Introduces social work students to pediatric pulmonary diseases and to research literature in this area of health care. Offered according to demand.

SW564 SW Practice in Child and Adolescent Mental Health  
Hours 1-3  
This course emphasizes evidence-based practice models and methods of intervention for effective social work practice with children, adolescents, and their families experiencing mental health problems.
Prerequisite(s): SW590 or (SW570 and SW577 and SW578 and SW579)

SW565 Social Work Practice in Child Welfare and Family Services  
Hours 1-3  
This course emphasizes evidence-based practice models of intervention for effective social work practice in child welfare and family services settings.
Prerequisite(s): SW590 or (SW570 and SW577 and SW578 and SW579)

SW570 Research-Informed Practice  
Hours 3  
This is the first course in a two-course sequence that is designed to enable students to engage in research-informed practice. The MSW themes of evidence-based practice and critical thinking are emphasized in this course. Graduate standing with admission to the MSW Program. With special permission of the Program Chair, graduate students outside the School of Social Work may take this course.

SW576 Intermediate Research  
Hours 3  
Prepares the student to engage in research at a level of sophistication and complexity appropriate for entry in the second-year research course.

SW577 Human Development and Social Systems  
Hours 3  
Provides students with instruction in the major psychological and sociological theories of human behavior that support and enhance social work practice.

SW578 Social Welfare Policy and Delivery Systems  
Hours 3  
Prepares advanced standing students for second-year policy and policy-related courses.

SW579 Social Work Practice  
Hours 1-3  
Designed to provide a foundation for social work practice with individuals, families, groups, and communities, in preparation for second-year practice courses.
SW585 Geriatric Care Management  
Hours 3  
The primary purpose of this course is to provide social workers interested in geriatric care management with the skills and knowledge needed to help prepare and empower family members in meeting the long term care needs of older adults and people with disabilities. The instructor for this course will offer evidenced-based information about how to conduct a care giving assessment and intervention with special attention to the complexities of the current long term care industry in the U.S. and to the many resources available to help care givers at the local and national level. This course provides specialized, yet practical, information designed to help families successfully meet the challenges of filial responsibility and other forms of care giving associated with disability. The specific tasks of care giving are organized into four categories: medical; legal-insurance-financial; family-social; and spiritual-emotional. Each task reflects a real life challenge that potentially comprises an important aspect of a care recipient’s long term care plan. The model of care giving used in this course underscores the importance of timely professional consultation and the supreme value of proactive preparation that values and honors the preferences of aging parents and family members with disabilities.  
Prerequisite(s): Set 1 (60 Hour) SW 500, SW 510, SW 511, SW 534, SW 540, SW 541, SW 542, SW 570 -OR- Set 2 (Advanced) SW 570, SW 577, SW 578, SW 579  

SW589 Social Work Practice in End-Of-Life Care  
Hours 3  
This course provides students with an understanding of the practical and emotional aspects of providing social work services to people who are dying and their families.  

SW590 Field Education I  
Hours 3-9  
Planned field experience in human service programs.  
Prerequisite(s): SW 500, SW 510, SW 540, SW 541, and SW 542  
Prerequisite(s) with concurrency: SW 511, SW 534, SW 570  

SW595 Field Education II  
Hours 3-9  
Placements are individualized according to each student’s concentration, career interest, and educational needs. The time requirements are the same as for SW 590.  
Prerequisite(s): Set 1 (60 hour) (SW532 AND SW533) OR (SW564 AND SW565) AND SW 500, and SW 510, and SW 570, and SW 540, and SW 541, and SW 542, and SW 501cc, and SW 525cc -OR- Set 2 (Advanced) (SW532 AND SW533) OR (SW564 AND SW565) AND SW 570, and SW 577, and SW 578, and SW 579, and SW 501cc, and SW 525cc  
Prerequisite(s) with concurrency: SW 501 and SW 525 and SW 501 and SW 525  

SW600 Soc Work & Welfare State  
Hours 3  
Introduction to needs and opportunities for research in social welfare policy and its implementation, past and present. Examination of the development of the welfare state and current research on social welfare policy and its implementation.  

SW601 Seminar in Doctoral Education  
Hours 1  
Provides students with an introduction to the PhD program, expectations for doctoral-level study, and familiarity with faculty and their research interests.  

SW605 Social Work Education  
Hours 3  
Focuses on the history, current structure, pedagogical theories, and contemporary issues important to social work educators.  
Prerequisite(s): SW 601  

SW620 Social Work Research I  
Hours 3  
Examination of some of the key theoretical issues of qualitative and quantitative social science research and the basic processes of theory formulation and knowledge building.  

SW621 Social Work Research II  
Hours 3  
Continuation of SW 620. Prepares students to design and carry out quantitative, qualitative, and multi-method research appropriate and adequate for answering social work research questions. Focuses on research design, sampling, data collection and analysis, and dissemination of results and conclusions.  
Prerequisite(s): SW 620  

SW622 Instrumentn & Measment  
Hours 3  
Focuses on the theoretical foundations of observation and measurement in social research and on the practical skills for measuring social phenomena, including assessment of the psychometric properties of research instruments and the design of reliable and valid instruments.  

SW623 Sem Qualitative Research  
Hours 3  
Advanced study of key concepts in qualitative research, with applications for social work practice research and evaluation.  

SW626 Seminar in Mixed Methods Research  
Hours 3  
The purpose of this course is to provide in-depth study of mixed methods research to graduate students who are already familiar with quantitative and qualitative research. An introductory phase of the course consists of defining mixed methods research and describing the history and foundations of this form of research. We will then examine the types of mixed methods designs available and discuss the process of research as it relates to each of these designs.  
Prerequisite(s): Completion of SW621 and SW623, or permission of the instructor.  

SW628 Research Practicum  
Hours 3  
Development of a social work research proposal, including the conceptualization of the research question, review of pertinent literature, project administration, arrangements for community collaboration, and IRB approval. Participation in ongoing research under faculty supervision.
SW629 Sp Top Sw Research Method
Hours 3
Study of an advanced quantitative or qualitative method, approach, or technique with emphasis on knowledge-building applications of the method, approach, or technique.

SW640 Concepts Of Practice
Hours 3
Components of social work practice theory, including historical forces shaping conceptualizations of practice, the ideological and epistemological assumptions of both normative and empirical conceptualizations of practice, and the contributions of science and other approaches to knowledge and skill building.

SW648 Sp Top Sel Prof Issues
Hours 3
Integrative seminar on special topics.

SW660 Independent Study
Hours 3
Prerequisite: Completion of the doctoral core courses or permission of the instructor.

SW697 Post-MSW Practice Experience
Hours 6-9
This course provides students in the social work Ph.D. program who hold an MSW the opportunity to obtain practice experience in an educationally and MSW-supervised environment. Students will work up to 20 hours per week in agencies with UA SSW field-office-approved social work supervision. (If students are seeking licensure in addition to post-MSW practice experience, students should be sure to attain appropriate supervision.).
Prerequisite(s): Holding an MSW degree. Completion of at least the first year of doctoral program coursework (22 doctoral program credits).

SW698 Non-Dissertn Research
Hours 1-9
No description available

SW699 Dissertation Research
Hours 1-15
No description available

Faculty
MSW Program Director
M. Sebrena Jackson, PhD, LCSW

Social Work, MSW

MSW Program
The mission of the Master of Social Work program at The University of Alabama School of Social Work is to prepare advanced scholar practitioners to improve the lives of individuals and families, enhance community well-being, and advocate for policies that support systemic change.

Graduates of the MSW program will be able to:

• Deliver evidence-based social work practice to diverse client systems.
• Advocate for vulnerable populations at the individual, group, and community levels.
• Engage in culturally competent advanced social work practice with diverse groups.
• Analyze, formulate, and influence organizational and government policies.
• Apply social work values and ethics to practice.

Curriculum
The MSW program is fully accredited by the Council on Social Work Education. The curriculum follows the curriculum policy requirements of the Council on Social Work Education and provides a balanced, integrated approach that includes a professional foundation and a choice of concentrations. The professional foundation curriculum taken the first year consists of coursework in the following:

• Social work practice. This area of the curriculum is designed to provide practice knowledge and competencies in working with individuals, groups, families, communities, and organizations.
• Human behavior and the social environment. This area of the curriculum helps the student to understand the whole person and the process of growth, change, adaptation, social functioning, and dysfunction of the environmental context, including family, groups, formal organizations, and communities. Courses in this area cover prenatal stages through the process of aging.
• Social welfare policy and services. This area of the curriculum is designed to help the student identify, appraise, analyze, and understand social change in its dynamic perspectives; the role and responsibility of social work as a profession in influencing social policy; and the delivery of service to individuals and society.
• Research methods. This area of the curriculum is designed to help the student understand social work and related research and the use of research for the improvement of services to individuals, groups, organizations, and communities.
• Field education. This area of the curriculum provides opportunities for students to integrate and apply knowledge, skills, and values in social work practice context.

MSW Curriculum Themes
The MSW program emphasizes the following five themes underpinning the foundation and the concentration year objectives:

• Life Course Perspective: Social workers understand that the growth and development of individuals, families, groups, organizations, and communities are influenced by a range of psychological, social, historical, political, and economic factors. The interaction of these factors with life events and life transitions contribute to the subsequent outcomes. This theme also serves as the conceptual framework for the entire MSW curriculum.
• Valuing Diversity: Social workers value and work respectfully with people who are different from themselves.
• Critical and Reflective Thinking: Critical and reflective thinking that challenges assumptions, and that is based on evidence to arrive at creative solutions, is the basis for competent social work practice.
• Evidence-Based Practice: Social workers favor interventions with demonstrated effectiveness. They are prepared to carefully evaluate practice and program outcomes.
• Services to the Poor and Underserved: Alabama’s poor and underserved receive social services primarily from public and non-
profit social service agencies. Social workers must be prepared to practice in these contexts and to challenge social injustice.

**MSW Program Foundation Objectives**

Foundation Year MSW students will demonstrate the ability to:

- Apply critical thinking skills within the context of professional social work practice.
- Understand the value base of the profession and its ethical standards and principles, and practice accordingly.
- Practice without discrimination and with respect, knowledge, and skills related to clients’ age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.
- Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice.
- Understand and interpret the history of the social work profession and its contemporary structures and issues.
- Apply the knowledge and skills of generalist social work perspective to practice with systems of all sizes.
- Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities.
- Analyze, formulate, and influence social policies.
- Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions.
- Use communications skills differentially across client populations, colleagues, and communities.
- Use supervision and consultation appropriate to social work practice.
- Function within the structure of organizations and service delivery systems and seek necessary organizational change.

**Concentration Objectives**

In professional social work intervention with children, youth, and their families, or adults and their families, students will demonstrate:

- The ability to effectively apply selected models and methods of advanced social work practice, consistent with social work values and ethics, with an emphasis in public and non-profit social services.
- The ability to use reflectively the theoretical approaches and knowledge bases underlying their practice with particular attention to the life course perspective.
- The ability to evaluate their own practice.
- The ability to analyze the impact of social welfare policies on clients and practice situations.
- The ability to practice in ways that are culturally and gender appropriate with low-income persons and with those who have experienced social and economic injustice.

The School of Social Work offers a Master of Social Work and two coordinated degree programs. The MSW/MPH is offered in coordination with UAB Public Health. The MSW/JD is offered in coordination with The University of Alabama Law School.

**Admission Requirements to the School of Social Work**

**Regular Admission**

An applicant whose credentials meet both of the following minimum requirements may be considered for regular admission:

1. **GPA requirement**: The applicant must have an undergraduate grade point average of 3.0 overall, 3.0 for the last 60 semester hours in a degree program, or 3.0 for a completed graduate degree program.

2. **GPA Standard**: All applicants must have at least a 2.5 (on a 4.0 scale) overall GPA.

3. **Entrance exam score requirement**: If the undergraduate grade point average is below a 3.0 for both the overall AND last 60 hours, the School of Social Work requires submission of test scores. The applicant must have a 300 on the GRE test or a score at the 50th percentile on the MAT. Admission test scores must be less than five years old. An applicant who wishes to be nominated by his or her department for a Graduate Council Fellowship is strongly encouraged to submit a score on the Graduate Record Examination (GRE) General Test or entrance examination appropriate to the graduate program of interest.

**Please note no academic credit, course waivers, or credit for field practicum shall be granted for life experience or previous work experience.**

**International Admission Requirements**

**International Student Admission**

International students must meet the Graduate School’s requirements for admission (see above), including the equivalent of a four-year bachelor’s degree from an accredited institution.

**Test Scores**: A students whose first language is not English must submit an official score report for the Test of English as a Foreign Language (TOEFL), the Pearson test of English (PTE), or must have earned a degree from an accredited U.S. college or university within the past 3 years.

1. TOEFL minimum score is a 550 on the paper-based test or a 79 on the internet-based test.
2. IELTS minimum score for admission is a 6.5.
3. PTE minimum score for admission is a 59.

**Note**: Scores must be less than two years old at the time of intended initial enrollment at The University of Alabama.
Please note no academic credit, course waivers, or credit for field practicum shall be granted for life experience or previous work experience.

Degree Requirements
The master of social work (MSW) degree will be awarded to the student who has met the following requirements:

• Successful completion of 60 hours of approved courses including field education or 42 hours for students admitted with advanced standing
• Evidence of the capacity to perform in all aspects of the student’s educational program at a satisfactory and responsible level, as judged by the faculty, and promise of further professional development (see the Master’s Degree Program Student Handbook for further details)
• Students are expected to demonstrate writing proficiency at a graduate level. Writing skills may be evaluated through specialized assignments in foundation or advanced-standing courses, or through a proficiency examination. The student may be required to attend tutorial sessions until proficiency is demonstrated.

Time Limit Requirement
All requirements for the master’s degree must be completed during the six year or 18 semesters (fall, spring, and summer semesters) immediately preceding the date on which the degree is to be awarded. There is no provision for an extension of the time limit beyond 6 years for the master’s students.

Program Options: 42 credit hour or 60 credit hour
Advanced Standing (42 credit hour)
• Students holding a Bachelor of Social Work degree from a CSWE accredited institution.
• Admission requires a "B" average or better in all professional foundation Social Work courses including field education, with no more than one "C" in upper level Social Work courses.
• Offered Spring and Summer terms only

Two Year (60 credit hour)
• Students who hold a bachelors degree from a regionally accredited institution.
• Students who do not meet Advanced Standing criteria must apply to 60 hour program.
• Offered Summer and Fall terms only

Applicants can find more information on program deadlines and application instructions on the School of Social Work website.

Application Fee
The application fee is $65 for U.S. citizens and permanent residents and $80 for international students. The application fee is waived for the following groups:

1. Veterans and current members of the US military (please send Angela Abrams (ayabrams@ua.edu) your DD 214 or current assignment orders as appropriate).
2. Ronald E. McNair Postbaccalaureate Achievement Program students (please contact Angela Abrams (ayabrams@ua.edu) for more details).
3. University of Alabama undergraduates applying to a graduate program in the same subject area. To qualify for this application fee waiver a student must have no time break between the undergraduate and graduate program and have an overall GPA of 3.0 or greater.
4. Applicants who have previously enrolled in Graduate School at The University of Alabama.

Applicants interested in transferring graduate credit to the MSW program from another institution or graduate program must make a formal request after admission to the program. The request is initiated in the Graduate School with the form for Request for Transfer Credit Form. Please note the School of Social Work allows a maximum of 9 hours of transfer work for the 42 hour program and a maximum of 12 hours of transfer work for the 60 hour program upon approval by the program director.

Applicants can find Application Instructions on the School of Social Work website.

MSW Program Requirements
Advanced-Standing Program Curriculum - Master of Social Work (MSW)
The Advanced-Standing Program is a 42-credit-hour program for only those who hold a CSWE-accredited BSW. It can be completed in three semesters when pursued full-time. Advanced-standing students fulfill professional foundation requirements by successfully completing 'bridge' courses typically offered in the spring or summer before beginning the concentration year.

Coursework is offered in two formats, campus or primarily online. Note: the primarily online format requires face-to-face skills labs held on selected Saturdays at regionally convenient locations.

Advanced Standing Curriculum - campus and distance learner (spring or summer start)

Bridge Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 570</td>
<td>Research-Informed Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 577</td>
<td>Human Develop &amp; Social Systems</td>
<td>3</td>
</tr>
<tr>
<td>SW 578</td>
<td>Social Welfare Policy</td>
<td>3</td>
</tr>
<tr>
<td>SW 579</td>
<td>Social Work Practice</td>
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</tbody>
</table>

Concentration Year

Concentration courses are offered on campus and primarily online with face-to-face skills labs. Advanced standing students who complete their bridge courses in the spring may take electives the following summer. They may also take SW 501 or SW 525 when those courses are offered in the summer.

Concentration Year - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
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<td>3</td>
</tr>
<tr>
<td>SW 565</td>
<td>SW Pract Child Welfare Fam Serv</td>
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<td>SW 525</td>
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* course(s) with skills labs

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 501</td>
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<tr>
<td>SW 595</td>
<td>Field Education II</td>
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<tr>
<td>SW Elective</td>
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<td>3</td>
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</tbody>
</table>
Social Work Electives

<table>
<thead>
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<th>Hours</th>
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<th>Planning &amp; Prog Development</th>
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</thead>
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<td>Social Service Prog Agency Adm</td>
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<td></td>
<td>SW 549</td>
<td>Crisis Intervention</td>
</tr>
</tbody>
</table>

60 Credit Hour Program* Curriculum - Master of Social Work (MSW)

The 60-credit-hour program is for those who currently do not hold a CSWE-accredited BSW. It can be completed in two years when pursued full-time. Coursework is offered in two formats, campus or primarily online. Note: the primarily online format requires face-to-face skills labs held on selected Saturdays at regionally convenient locations across Alabama.

*Summer start two year program is online only; fall start is online or on campus

60 Credit Hour Curriculum (campus - fall start)

Foundation Year - Fall

<table>
<thead>
<tr>
<th>Hours</th>
<th>SW 500</th>
<th>Social Welfare Policy</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SW 510</td>
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<td>SW 540</td>
<td>SW Practice with Indiv &amp; Famly</td>
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<tr>
<td></td>
<td>SW 541</td>
<td>Sw Practice With Groups</td>
</tr>
<tr>
<td></td>
<td>SW 542</td>
<td>SW Practice w/Communities</td>
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</table>

Spring

<table>
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<tr>
<th>Hours</th>
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<th>Human Behav Social Envir II</th>
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<td>SW 534</td>
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<td></td>
<td>SW 570</td>
<td>Research-Informed Practice</td>
</tr>
<tr>
<td></td>
<td>SW 590</td>
<td>Field Education I</td>
</tr>
</tbody>
</table>

Concentration Year

Concentration courses are offered on campus. Two year students who complete their foundation courses may take electives in the summer. They may also take SW 501 or SW 525 when those courses are offered in the summer.

Concentration Year - Fall

<table>
<thead>
<tr>
<th>Hours</th>
<th>SW 532 or</th>
<th>SW Pract w/Adults Mental Hlth</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>SW 564</td>
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<td>SW 501</td>
<td>Soc Welfare Adv Pol Analysis</td>
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</table>

Spring

<table>
<thead>
<tr>
<th>Hours</th>
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<th>Field Education II</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SW Elective</td>
<td></td>
</tr>
</tbody>
</table>

60 Credit Hour Curriculum (distance learner - summer start)

Foundation Year - Summer

<table>
<thead>
<tr>
<th>Hours</th>
<th>SW 500</th>
<th>Social Welfare Policy</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td>SW 540</td>
<td>SW Practice with Indiv &amp; Famly</td>
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</table>

* course(s) with skills labs

Foundation Year - Fall

<table>
<thead>
<tr>
<th>Hours</th>
<th>SW 541</th>
<th>Sw Practice With Groups</th>
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<tbody>
<tr>
<td></td>
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Spring

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<td></td>
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Concentration Year

Concentration courses are offered on campus and primarily online with face-to-face skills labs. Two year students who complete their foundation courses may take electives in the summer. They may also take SW 501 or SW 525 when those courses are offered in the summer.

Concentration Year - Fall

<table>
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<tr>
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<th>SW 532 or</th>
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</table>

* SW 532/533 or SW 564/565 sequence requires skills labs

Concentration Year - Spring

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<th>Hours</th>
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Social Work Electives

<table>
<thead>
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<th>Hours</th>
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</table>

60 Credit Hour Curriculum (distance learner - Fall start)

### Foundation Year - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SW 500</td>
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<tr>
<td>SW 510</td>
<td>Human Behav Social Envr I</td>
<td>3</td>
</tr>
<tr>
<td>SW 540</td>
<td>SW Practice with Indiv &amp; Family *</td>
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* course(s) with skills labs

### Foundation Year - Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<td>SW 541</td>
<td>Sw Practice With Groups *</td>
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<td>SW 570</td>
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*course(s) with skills labs

### Summer

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
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</tr>
<tr>
<td>SW 534</td>
<td>Integrative Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SW 590</td>
<td>Field Education I</td>
<td>9</td>
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</table>

### Concentration Year

Concentration courses are offered on campus and primarily online with face-to-face skills labs. Two year students who complete their foundation courses may take electives in the summer. They may also take SW 501 or SW 525 when those courses are offered in the summer.

### Concentration Year - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
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<tr>
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</tbody>
</table>

* SW 532/533 or SW 564/565 sequence requires skills labs

### Concentration Year - Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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### Summer

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<tr>
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### Social Work Electives

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</tr>
<tr>
<td>SW 549</td>
<td>Crisis Intervention</td>
<td></td>
</tr>
</tbody>
</table>

Please note that courses are subject to change.

### MSW/MPH Coordinated Degree

The University of Alabama School of Social Work in Tuscaloosa and The University of Alabama at Birmingham School of Public Health jointly offer an MSW/MPH coordinated degree program designed for people with career goals in community-oriented health services for families and children.

Students who are interested in this coordinated degree should separately apply to UA’s MSW program and to the Department of Health Care Organization and Policy at The University of Alabama-Birmingham School of Public Health for admission to the MPH Program.

Students are required to first secure admission to our MSW Program and, at the end of the first semester, apply separately to the Department of Health Care Organization and Policy for the MPH Program at the UAB School of Public Health. Acceptance in the MSW program does not automatically ensure acceptance into the MPH program and vice versa. Students attend classes in Tuscaloosa and Birmingham.

For UAB curriculum guides and admission requirements please visit their website at University of Alabama at Birmingham School of Public Health.

### Advanced-Standing Coordinated degree - MSW/MPH

The Advanced-Standing Program is a 42-credit-hour program for only those who hold a CSWE-accredited BSW. It can be completed in three semesters when pursued full-time. Advanced-standing students fulfill professional foundation requirements by successfully completing 'bridge' courses typically offered in the spring or summer before beginning the concentration year.

Coursework is offered in two formats, campus or primarily online. Note: the primarily online format requires face-to-face skills labs held on selected Saturdays at regionally convenient locations.

### Advanced Standing MSW/MPH (campus and distance learner summer or spring start)

#### Bridge Courses

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<td>SW 579</td>
<td>Social Work Practice *</td>
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</table>

* course(s) with skills labs

### Concentration Year

Concentration courses are offered on campus and primarily online with face-to-face skills labs. Advanced standing students who complete their bridge courses in the spring may take electives the following summer. They may also take SW 501 or SW 525 when those courses are offered in the summer.

#### Concentration Year - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 532 or</td>
<td>SW Pract w/Adults Mental Hlth *</td>
<td>3</td>
</tr>
<tr>
<td>SW 564</td>
<td>Sw Prac Child Adol Ment Hlth</td>
<td></td>
</tr>
<tr>
<td>SW 533 or</td>
<td>Mod/Meth Gerontologl SW Pract *</td>
<td>3</td>
</tr>
<tr>
<td>SW 565</td>
<td>SW Prac Child Welfare Fam Serv</td>
<td></td>
</tr>
<tr>
<td>SW Elective</td>
<td></td>
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</tr>
</tbody>
</table>

### Concentration Year - Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 501</td>
<td>Soc Welfare Adv Pol Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SW Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW Elective</td>
<td></td>
<td>3</td>
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</table>

Please note that courses are subject to change.
### SW Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 506</td>
<td>Planning &amp; Prog Development</td>
</tr>
<tr>
<td>SW 513</td>
<td>SW Practice in Health Care</td>
</tr>
<tr>
<td>SW 514</td>
<td>Chem Depend Knowledge Interv</td>
</tr>
<tr>
<td>SW 515</td>
<td>Psychopathology</td>
</tr>
<tr>
<td>SW 523</td>
<td>Family Preservation</td>
</tr>
<tr>
<td>SW 528</td>
<td>Spirituality In SW Practice</td>
</tr>
<tr>
<td>SW 529</td>
<td>Adv Clinical Social Work Prac</td>
</tr>
<tr>
<td>SW 536</td>
<td>Social Service Prog Agency Adm</td>
</tr>
<tr>
<td>SW 549</td>
<td>Crisis Intervention</td>
</tr>
</tbody>
</table>

### 60 Credit Hour Program* Coordinated degree - MSW/MPH

The 60-credit-hour program is for those who currently do not hold a CSWE-accredited BSW. It can be completed in two years when pursued full-time. Coursework is offered in two formats, campus or primarily online. Note: the primarily online format requires face-to-face skills labs held on selected Saturdays at regionally convenient locations across Alabama.

*Summer start two year program is online only; fall start is online or on campus

### 60 Credit Hour MSW/MPH (distance learner - fall start)

#### Foundation Year - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 500</td>
<td>Social Welfare Policy</td>
</tr>
<tr>
<td>SW 510</td>
<td>Human Behav Social Envir I</td>
</tr>
<tr>
<td>SW 540</td>
<td>SW Practice with Indiv &amp; Family</td>
</tr>
</tbody>
</table>

* course(s) with skills labs

#### Foundation Year - Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 541</td>
<td>Sw Practice With Groups *</td>
</tr>
<tr>
<td>SW 542</td>
<td>SW Practice w/Communities *</td>
</tr>
<tr>
<td>SW 570</td>
<td>Research-Informed Practice</td>
</tr>
</tbody>
</table>

* course(s) with skills labs

#### Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 511</td>
<td>Human Behav Social Envir II</td>
</tr>
<tr>
<td>SW 534</td>
<td>Integrative Seminar</td>
</tr>
<tr>
<td>SW 590</td>
<td>Field Education I</td>
</tr>
</tbody>
</table>

### Concentration Year

Concentration courses are offered on campus and primarily online with face-to-face skills labs. Two year students who complete their foundation courses may take electives in the summer. They may also take SW 501 or SW 525 when those courses are offered in the summer.

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</tr>
<tr>
<td>SW Elective</td>
<td></td>
</tr>
</tbody>
</table>

* SW 532/533 or SW 564/565 sequence requires skills labs

### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 595</td>
<td>Field Education II</td>
</tr>
<tr>
<td>UAB (MPH) Core Requirements that transfer to UA</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI 600</td>
<td>(SW 525)</td>
</tr>
<tr>
<td>HB 600</td>
<td>(SW Elective)</td>
</tr>
<tr>
<td>HCO 600</td>
<td>(SW Elective)</td>
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### Social Work Electives

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<td>SW 549</td>
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</tbody>
</table>

### 60 Credit Hour Curriculum MSW/MPH (campus - fall start)

#### Foundation Year - Fall

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SW 500</td>
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#### Foundation Year - Spring

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* course(s) with skills labs

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<td>SW 590</td>
<td>Field Education I</td>
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</table>

#### Concentration Year

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<tr>
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<tr>
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</tr>
<tr>
<td>SW 565</td>
<td>SW Prac Child Welfare Fam Serv</td>
</tr>
<tr>
<td>SW 501</td>
<td>Soc Welfare Adv Pol Analysis</td>
</tr>
</tbody>
</table>

* SW 532/533 or SW 564/565 sequence requires skills labs
* SW 532/533 or SW 564/565 sequence requires skills labs

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 595</td>
<td>Field Education II</td>
</tr>
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**UAB (MPH) Core requirements that transfer to UA**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI 600 (SW 525)</td>
<td>3</td>
</tr>
<tr>
<td>HCO 600 (SW Elective)</td>
<td>3</td>
</tr>
<tr>
<td>HB 600 (SW Elective)</td>
<td>3</td>
</tr>
<tr>
<td>ENH 600 (SW Elective)</td>
<td>3</td>
</tr>
</tbody>
</table>

**MSW/JD Coordinated Degree Program**

The Master of Social Work/Juris Doctorate Degree Program is coordinated between the School of Social Work and The Law School.

The goal is to offer comprehensive preparation to individuals interested in becoming leaders in their communities, their state, or the nation, as well as leaders in promoting and enhancing social justice and individual well-being, through interventions, advocacy, organizational management, and public policy. Students acquire knowledge of social work and law strategies that can improve the lives of individuals and groups, by understanding forensic social work, the justice system, domestic violence, child protection, human rights, and more.

Before being classified as a MSW/JD coordinated degree student, applicants must be accepted in the School of Law and then the MSW program. Separate admission to each program is required. Admission requirements for the coordinated degree program are exactly the same as those currently established for the MSW program and the JD program separately. All normal prerequisites for both programs must be met.

**Completion Requirements**

UA’s Advanced-Standing MSW program requires 42 hours of coursework; the 2-year MSW program requires 60 hours. Students in the dual-enrollment MSW/JD complete in the Law School the 9 hours of electives currently required for the MSW degree (and currently specified as “MSW electives”).

The JD program requires at least 90 hours of coursework, of which 6 hours may be fulfilled with approved courses offered outside the Law School. The JD is a cohort-based program completed over 3-4 years. Dually enrolled MSW/JD students will be required to complete 9 hours of MSW courses as part of the 90 hours constituting study for the JD.

In all, the coordinated degree program requires 114 credit hours for students admitted with advanced standing by the MSW Admission Committee, or 132 credit hours for students admitted without advanced standing.

**Comprehensive Examinations/Capstone Experiences**

For MSW students, the required field education practicum is the Capstone experience. At the conclusion of their studies, all MSW students complete one required field education practicum. An additional field education practicum is required of students in the 60-credit-hour MSW Program, to be taken after they complete 15 credit hours of MSW prerequisites. In each field education practicum required, an MSW student must demonstrate successful integration and application of the knowledge, skills, and values learned both in class and from the practicum instructor, employing these as he or she delivers social services in a practice situation. A formal evaluation of the MSW student’s performance serves as the final evaluation in each field education practicum.

The JD program has no mandatory exam or Capstone experience.

**Time Limit**

Per Graduate School regulations and ABA Standards, students in the coordinated degree program are allowed no more than 6 years, from the time of matriculation, to complete all requirements for the coordinated degrees.

**Both Degrees Confirmed in same Commencement**

Both degrees are conferred during a single commencement exercise, once all degree requirements have been met. Neither degree will be granted until both degrees are earned, except in cases in which a student formally withdraws from the coordinated degree program.

**Discontinuation of One of the degrees**

If a student enrolled in the coordinated degree program were to discontinue enrollment in the program and continue seeking only one degree (MSW or JD), the student would have to meet the full requirements of that degree.

**Coordinated Degree Requirements**

Students in the MSW/JD Coordinated Degree Program must complete all the required MSW courses necessary for the degree; they may complete their elective requirements (currently nine credit hours) in the Law School.

**Law electives approved to count towards the MSW**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 607 Disability Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 718 Biomedical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>LAW 635 Children’S Rights</td>
<td>3</td>
</tr>
<tr>
<td>LAW 756 Family Law II</td>
<td>3</td>
</tr>
<tr>
<td>LAW 654 Spe Aspects Of Fam Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 769 Poverty Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 655 Immigration Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 791 Juvenile Justice Jurisprudence</td>
<td>3</td>
</tr>
<tr>
<td>LAW 674 Family Law I</td>
<td>3</td>
</tr>
<tr>
<td>LAW 821 Public Interest Lawyering</td>
<td>3</td>
</tr>
<tr>
<td>LAW 683 Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 834 Mental Health Law</td>
<td>3</td>
</tr>
</tbody>
</table>

**MSW courses approved to count towards the JD**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 500 Social Welfare Policy</td>
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</tr>
<tr>
<td>SW 501 Soc Welfare Adv Pol Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
SW 578  Social Welfare Policy
SW 532  SW Pract w/Adults Mental Hlth
SW 533  Mod/Meth Gerontologl SW Pract
SW 564  Sw Pract Child Adolesc Ment Hlth
SW 565  SW Pract Child Welfare Fam Serv

The coordinated degree program requires 114 credit hours for students admitted as MSW advanced standing and 132 credit hours for students admitted as MSW 60 credit hour.

Challenge Examinations
The master of social work program permits admitted MSW students to demonstrate a mastery of specific course content areas by passing a challenge examination. Challenges are permitted in the areas of policy, research, and human behavior. Thus, students in the advanced program may request to challenge SW 576 Intermediate Research, SW 577 Human Develop & Social Systems, and/or SW 578 Social Welfare Policy. Students in either the Saturday program or the weekday program may request to challenge SW 500 Social Welfare Policy; SW 510 Human Behav Social Envr; and/or SW 570 Research-Informed Practice. A student who successfully challenges a course will be permitted to take a substitute course in lieu of the required foundation course. The degree-hour requirements remain the same.

Field Education Placement Procedures
The major objective in the placement process is to match the student with the field education setting that offers the best potential for promoting the student’s professional development. The School is responsive to personal factors related to location of placements and specific agencies, but it cannot assure an assignment tailored to personal situations. In accepting admission to the School and registering in the MSW program, the student has agreed to accept field education placements assigned by the School of Social Work.

Students who are employees of organizations that meet the School’s criteria for field education agencies and that agree to the School’s requirements may apply to the Field Education Coordinator to arrange a placement with that agency as one of the required field education experiences.

Field education placements are available in the Tuscaloosa area and throughout the state. Students are responsible for arranging transportation and paying any expenses related to field education. Students may not enroll in field education unless they have completed the required courses for the year in which they are enrolled, or unless they are concurrently enrolled in those courses. A student who has a grade of "I" on his or her record will not be allowed to enroll in field education.

A student who is unable to meet minimum standards in field education may be dropped from field education at any time. A student dropped from field education is also discontinued from other courses requiring concurrent enrollment in field education.

Washington, D.C., Placements
The MSW program provides the opportunity for students to complete the second-year field education requirement and other specific program requirements in Washington, D.C. These placements offer special opportunities to obtain field education experience not ordinarily available in Alabama.

Electives
All students must complete 9 hours of electives. Electives may be taken any time after the completion of bridge or foundation year courses.

Electives may include, if openings exist, required courses from the other concentration. If an emphasis in Program and Agency Administration is desired, two of the three electives must include SW 506 Planning & Prog Development and SW 536 Social Service Prog Agency Adm.

Second-Year Concentrations
The curriculum stresses specialized knowledge; the ability to understand complex theories, methods, and models of social work practice; and the ability to apply knowledge and skills differentially in the process of selecting alternatives in all levels of practice. The purpose of the second, or concentration, year of the social work curriculum is the preparation of social workers for advanced practice in one of two concentrations: Social Work with Children Adolescents, and their Families or Social Work with Adults and their Families. An emphasis on Program Planning and Administration (PAA) is available with either of the concentrations. The concentration year is built on a liberal arts perspective and professional foundation content, with particular emphasis on populations at risk.

Each concentration includes two required courses, the opportunity for three electives (which can be courses from other concentrations), and a field education placement related to the concentration. Two other courses are required during the second or concentration year: SW 525 Evaluation Research and SW 501 Soc Welfare Adv Pol Analysis. Students have the opportunity, in collaboration with their academic advisors and depending on course availability, to tailor their concentrations to reflect their own preferences. An emphasis in Program and Agency Administration in either concentration requires that students complete:

1. SW 506 Planning & Prog Development,
2. SW 536 Social Service Prog Agency Adm, and
3. a field education placement that provides and opportunity to implement the knowledge gained in these two courses.

The School reserves the right to alter the concentration requirements as necessary.

Required Courses for Social Work with Children, Adolescents, and Their Families

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 564</td>
<td>Sw Pract Child Adolesc Ment Hlth</td>
<td>3</td>
</tr>
<tr>
<td>SW 565</td>
<td>SW Pract Child Welfare Fam Serv</td>
<td>3</td>
</tr>
<tr>
<td>SW 595</td>
<td>Field Education II</td>
<td>9</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
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</tr>
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</table>

Required Courses for Social Work with Adults and their Families

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 532</td>
<td>SW Pract w/Adults Mental Hlth</td>
<td>1-3</td>
</tr>
<tr>
<td>SW 533</td>
<td>Mod/Meth Gerontologl SW Pract</td>
<td>1-3</td>
</tr>
<tr>
<td>SW 595</td>
<td>Field Education II</td>
<td>9</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>11-15</td>
</tr>
</tbody>
</table>

Introduction
The University of Alabama, Graduate School, 102 Rose Administration Building, Box 870118, Tuscaloosa, AL 35487-0118; 205-348-5921; email: gradschool@ua.edu; or visit the website of the Graduate School. This catalog is produced by the Graduate School. Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial or clerical errors or error occasioned by honest mistake. All information contained in this catalog
is subject to change by the appropriate officials of The University of Alabama without prior notice. Although this catalog intends to reflect any current policies or rules of The Board of Trustees of The University of Alabama referred to or incorporated herein, users are cautioned that changes or additions to policies or rules may have become effective since the publication of this material. In the event of such a conflict, the current statements of board policy contained in the official minutes and manual of rules, bylaws, and guidelines shall prevail.

Equal Opportunity in Education and Employment

UA complies with applicable laws prohibiting discrimination, harassment, and retaliation, including but not limited to Titles VI and VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, Executive Order 11246, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans’ Adjustment Assistance Act, as amended by the Jobs for Veterans Act of 2002 (VEVRAA), the Uniformed Services Employment and Reemployment Rights Act of 1994 (USERRA), the Age Discrimination Act of 1975, the Americans with Disabilities Act (ADA) of 1990, the ADA Amendments Act of 2008, and the Genetic Information Nondiscrimination Act of 2008. Consistent with those laws and UA’s Sexual Misconduct, Harassment and other policies, UA prohibits discrimination on the basis of genetic or family medical history information, race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, pregnancy, age, disability, protected veteran status, or any other legally protected basis in admission or access to, or treatment of employment in, its programs and services. These prohibitions against discrimination apply to recruitment, application, selection, hiring, appointment, transfer, demotion, promotion, tenure, job assignments, classification, compensation, benefits, leaves of absence, sick leave or any other leaves, job training and development, tuition assistance, participation in UA-sponsored educational, social, and recreational programs, discharge, layoff, and/or any other term, condition or privilege of employment. Inquiries or concerns regarding UA’s Title IX or gender-related compliance may be directed to UA’s Title IX Coordinator, Ms. Beth Howard, 107 Burke Hall West, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5496, ghoward@ua.edu. All other inquiries and concerns related to discrimination, harassment, or retaliation, except those regarding Section 1557 of the Affordable Care Act, may be directed to Dr. Gwendolyn Hood, University Compliance Officer and Director of the Office of Equal Opportunity Programs, 107 Burke Hall West, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5855 (Voice), 205-348-5573 (TDD), ghood@aalan.ua.edu.


Campus Security Report

Each year, The University of Alabama publishes the UA Annual Campus Security and Fire Safety Report. It contains crime and fire statistics for the three most recent calendar years. It also details UA security policies and procedures. The Campus Security Report is provided in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and is available online to view or print at police.ua.edu. The Alabama Department of Public Safety, a state agency, also provides an online listing of sex offenders currently registered with the state. This listing is available on the Alabama Department of Public Safety website at dps.alabama.gov. For information regarding the enrollment or employment of registered sex offenders at The University of Alabama, or to request a printed copy of the Campus Security Report, write The University of Alabama, University Police, Community Services Division, Attention: Clery Compliance Officer, Box 870180, Tuscaloosa, AL 35487-0180; or email ua.police@ua.edu.

Social Work, Ph.D.

PhD Program

The purpose of this program is to prepare graduates for scholarly roles by advancing their knowledge about theory and increasing their skills in research methods, and the critical evaluation of social work policies and practice.

The PhD program builds on a base of professional knowledge and practice in social work. It provides all students with advanced knowledge of research, social policy, and practice theory. In addition to the grounding in research methods, the program offers students the opportunity to develop a comprehensive understanding of a selected area of concentration and, through the dissertation, contribute to knowledge development in that area. Students take electives in an area of personal interest. As soon as they enter the program, students are assigned to a PhD faculty advisor for program planning and guidance.

The program is notable among social work doctoral programs for the range and depth of its research foundation courses and electives. Exceptional opportunities are available for students interested in research in mental health, aging, and child welfare. There are opportunities for international experiences as well as for collaboration with the Center for Mental Health and Aging, the Institute for Rural Health Research, the Institute for Social Science Research, and the Youth Services Institute, with other colleges and departments of the University; and with various units of The University of Alabama at Birmingham (UAB).

Time Limit

All PhD degree requirements must be completed in the 7 years (21 consecutive fall, spring, and summer semesters) after admission.

Obtaining Information

Inquiries about the program and requests for application materials should be to: The University of Alabama School of Social Work, PhD Program Office, Box 870314, Tuscaloosa, AL 35487-0314; telephone 205-348-6528; bsmitzh2@sw.ua.edu.

Financial Aid

Financial aid commonly takes the form of graduate teaching or research assistantships, special grants or fellowships, student loans, and/or part-time employment.

Some additional scholarships are available from the School of Social Work including the Ben Avis Orcutt and Leslie J. Shellhase endowed scholarships, and the Social Work Board of Friends Summer Scholarships, which are administered by the PhD program. For more information on financial aid from other sources, visit the Financial Aid website.

Admission Requirements

Graduate School Admission Requirements

The Graduate School determines eligibility for regular or conditional admission, primarily on the basis of standardized test scores and previous academic record. Successful applicants must meet the minimum admission requirements of the Graduate School, which follow.
• a grade point average (GPA) of at least 3.0 on a 4.0 scale (overall) or a GPA of at least 3.0 for the last 60 hours of the previous degree program, or 3.0 for a completed graduate degree program.

• an acceptable score on an appropriate entrance examination as set by the department or school.

An applicant may be considered for conditional admission if he or she has a GPA of 2.5 overall and an acceptable score on the appropriate admission examination, or a GPA of 3.0 and less than the minimum score on the admission examination.

See the Admission Criteria section of this catalog for more information.

**PhD Program Admission Requirements**

Once the application is complete, it is sent to the PhD program office in the School of Social Work for evaluation. Listed below are the requirements for unconditional admission to the social work PhD program.

• A master’s degree in social work (MSW) from a program accredited by the Council on Social Work Education (CSWE) or simultaneous application to the UA concurrent MSW/PhD program.

• Applicants who will not have an MSW before entering the program must submit GRE scores. Scores exceeding 300 (combined verbal and quantitative) are required for unconditional admission. In addition, the faculty will consider the score on the analytical writing section of the GRE together with the essay submitted to the School of Social Work as part of the application.

• Applicants from non-English speaking countries must submit evidence of English language proficiency by means of a Test of English as a Foreign Language (TOEFL) score of at least 79 on the internet-based TOEFL, or a score of at least 6.5 on the International English Language Testing System (IELTS).

• Letters from three references, one of whom must be a university professor or social work scholar who has personal knowledge of the applicant’s intellectual and scholarly abilities. If the applicant has earned the MSW degree, at least one letter should be from a former instructor in the applicant’s MSW program.

• A statement of purpose indicating the reasons the applicant wishes to pursue a PhD in social work and indicating the applicant’s research interests.

• Evidence of scholarly ability, supported by evidence the applicant supplies (e.g., a paper published in a journal or presented at a conference or workshop, a design of a service program or a research proposal, and/or a course syllabus written by the applicant).

Members of the PhD Program Committee review the application materials and a recommendation is made to the Graduate School, which formally notifies the applicant of the admission decision. Applicants seeking admission to the program who do not meet the above requirements are considered on an individual basis. If an applicant desires such consideration, he or she should file all application materials as directed above. In addition to the materials required of all students, he or she should file, along with the School of Social Work application form, a petition for exemption from one or more requirements. The petition should state the requirement from which exemption is sought and should provide information supporting the petition. After the file is complete and referred to the PhD program by the Graduate School, the applicant may be invited to schedule an interview with the program director or other member of the admissions committee, in order to assess individually the applicant’s qualifications for doctoral studies in social work. A summary of this interview and the petition for an exception will be made available to the Admissions Committee for consideration prior to its decision regarding an admissions recommendation.

If seeking exemption from the requirements, the applicant should be aware that he or she may be required to register for courses other than the standard curriculum, including courses at the MSW level. The amount and type of such work may be decided by the Admissions Committee before admission and/or by the applicant’s academic advisor after admission.

**Additional Program Admission Requirements**

In addition to the above program requirements, it is recommended that the applicant also possess a minimum of two years of employment in social work after earning the MSW degree.

Some schools of social work require two years of post-MSW practice experience for admission to the social work PhD program. In this program, post-MSW practice experience is highly recommended but not required. There are advantages to having post-MSW practice experience prior to matriculation in a PhD program. Students with the MSW and practice experience will have more context from which to interpret and apply the content of social work core courses. In addition, post-MSW practice experience will permit the applicant, under current CSWE accreditation standards, to engage in the full range of teaching and advising assignments at accredited schools of social work. Thus, the applicant will have a competitive advantage in the job market over someone who does not have post-MSW practice experience.

Concurrent Enrollment in the MSW and PhD Degrees Programs

The University of Alabama School of Social Work offers an MSW/PhD concurrent program for exceptional individuals who hold, or are candidates for, bachelor’s degrees who have strong academic credentials and aptitude for academic careers in social work. Such individuals may be admitted simultaneously to the MSW and PhD programs and work on both degrees concurrently, following a strict, rigorous curriculum. Those admitted to the concurrent program will complete all current requirements for the PhD degree. Specific required PhD coursework will be applied to specific MSW degree requirements, reducing the number of semester hours required for the MSW and PhD degrees by 12 hours typically. The MSW degree will be awarded when all requirements for the MSW are completed, and the student will continue to work on the PhD requirements.

Successful applicants must exceed the minimum admission requirements of the Graduate School and the School of Social Work MSW and PhD programs.

**PhD Degree Requirements**

**Curriculum**

The Social Work Ph.D Program requires 49 hours of course work. Specific requirements are as follows:

• Thirty-one semester hours of core social work courses, including a one-credit seminar, five courses in substantive areas and six courses in research methodology.

• Twelve semester hours in an elective area taken outside of the School of Social Work.

• A statistical research competency demonstrated by successful completion of approved statistics two-course sequence.

• A dissertation showing the student’s ability to conduct independent research that adds to the knowledge of the profession (includes a minimum of 24 hours of dissertation credit).
These requirements are minimum standards. Additional work may be required, depending on the student's preparation and career interests. Doctoral study must be completed within seven years.

Residency Requirements

The minimum period in which the Ph.D degree can be earned is three academic years of full-time graduate study (or the equivalent in a set of shorter segments). Both the fall and spring semesters of either the second or third academic year of study must be spent in continuous residence as a full-time student (as an alternative, the full-time residence may be completed by full-time enrollment during a summer session, including both summer terms, preceded or followed by a regular semester). Full-time residence study is defined as an academic load of 9 semester hours or more during a period when the student's principal activity is academic work.

Admission to Candidacy.

A department-approved Admission to Candidacy for the Doctoral Degree form is submitted to the Graduate School as soon as possible after passing the comprehensive (preliminary) examination.

Additional information on Plan of Study, Residency, Admission to Candidacy, and all other degree requirements is in the Degree Requirements section of this catalog.

Doctoral Degrees

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (Ph.D) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, Ph.D candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required
to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master’s degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

**Residency Requirements**

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

**Graduate Credit**

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

**Graduate Credit for Noncredit Experiences**

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

**Transfer of Credit**

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a “B” overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department’s graduate coordinator regarding your department’s transfer policy.
Each department wanting its doctoral students to be able to choose Option 2 needs to “opt in” to this option by informing the graduate dean in writing that they wish to be among the approved departments.

**Time Limits**

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master’s, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

**Time Limits Extension Request**

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student
  a. describes the compelling circumstances,
  b. briefly describes the current status of the dissertation, then
  c. includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the Graduate Council.
- If the college dean supports the petition, it is sent to the Graduate Council.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

**Repeating Courses When Given an Extension**

When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

**Plan of Study**

Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

**Preliminary or Comprehensive Examination**

A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
- the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

**Admission to Candidacy**

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

**Continuous Dissertation or Document Registration**

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is
Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the student’s final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours—Other Policies and Regulatory Bodies” on page 3 of this policy.
Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University's IRB approval form is available at the IRB website.

Final Examinations

When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student's major department or, for students in the College of Education, outside the student's area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate's research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation

Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement

At least one week before commencement, the candidate's record must have been cleared for graduation.

Attendance at Commencement

A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree

The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.
Faculty
Ph.D. Program Director
Brenda Smith

Interdisciplinary Programs
Interdisciplinary Studies (p. 603)
Materials Science (MTLS) (p. 609)

Interdisciplinary Studies
The Alabama Commission on Higher Education (ACHE) has authorized
The University of Alabama to offer the Ph.D. in Interdisciplinary Studies
when existing Ph.D. programs at the University do not meet the needs of
a student and when the University has the faculty and research resources
to offer such a program.

- Majors
  - Interdisciplinary Studies (Ph.D.) (p. 603)

[object Object]

IDGR601 GTA Assistant Only
Hours 1-12
No description available

IDGR602 GTA Teaching
Hours 1-12
No description available

IDGR603 GRA Research
Hours 1-12
No description available

IDGR604 GA-Student, Admin or Other
Hours 1-12
No description available

IDGR605 Graduate Internship
Hours 4.5
No description available

IDGR699 Dissertation Research
Hours 1-12
Dissertation Research.

Faculty
Coordinator
Dr. Andrew Goodliffe
Associate dean
Dr. Andrew Goodliffe

Interdisciplinary Studies, Ph.D.
Prerequisites for Admission
Prior to submitting an application to the Interdisciplinary Studies
Program, each prospective candidate must meet with the Assistant Dean
of the Graduate School.

Applicants must meet the following criteria:

1. A completed master’s degree or its equivalent from an accredited
   university.
2. GPA of 3.3 or higher. If the GPA is less than a 3.3, the admission test
   score must be exceptional.
3. Admission test scores at the 50 percentile or better on an appropriate
   entrance examination (e.g., GRE, GMAT, MAT).

Note: Interdisciplinary Ph.D. programs are not available to students who
have been unsuccessful in previous graduate work.

Application Requirements
The following must be submitted as part of the application:

1. Interdisciplinary PhD Committee Agreement Form: As part of the
   application process you are required to find five faculty members
   for your committee. All committee members must be members of
   the Graduate Faculty at The University of Alabama before formal
   appointment to the committee will be made by the Dean of the
   Graduate School. It is expected that the applicant’s Advisory
   Committee chair will have competence in the proposed major area(s)
   of study and has the time and willingness to devote to being an
   academic mentor for the student throughout the Ph.D. program. The
   committee chair and at least one additional committee member will
   have experience in directing and supervising doctoral-level research.
2. Advisor Signature Form: One of the faculty members on your
   committee will serve as your advisor. It is preferred that your advisor
   be selected from a department that offers doctoral degrees.
3. Home Department Request Form: It is hoped that a home department
   or program will include an IDS student in the intellectual-social life
   of the unit, e.g., department mailing lists, colloquia, social functions,
   etc. This department may also consider an IDS student for Graduate
   Teaching Assistant and Research Assistant appointments, and for
   office space.
4. Proposed Course Schedule Form: The student is responsible for
   convening a meeting with all committee members to discuss the
   proposed course schedule. Please see Course of Study for more
   details.
5. A one- to two-page statement of proposed research topic outlining
   the intended focus of research and the significance of the research to
   the integrated fields of study and the student’s professional goals. The
   prospectus must be signed by the Advisor/Chair of the student’s
   Advisory Committee.
6. A statement of purpose that includes reasons for pursuing the
   Interdisciplinary Studies Ph.D. and career goals. Your Statement of
   Purpose should clearly demonstrate how your professional goals are
   related to your intellectual pursuits.
7. Written explanation (signed by advisor/chair) explaining how
   residency requirements (two contiguous, full-time semesters) will be
   met.
8. Written explanation (signed by advisor/chair) explaining how the
   comprehensive examination requirement will be fulfilled. See Degree
   Progression for more details.
9. Completed application form and application fee.
10. Official transcripts from all colleges and universities that the student has attended.
11. Three letters of recommendation.
12. A resume.

Course of Study
The UA Graduate School requires that Interdisciplinary Studies Ph.D. students must complete a minimum of 48 hours of coursework. All students in the interdisciplinary PhD program must take AHE 591: Disciplinarity and American Higher Education (or its equivalent) during the first 3 semesters of coursework. The Interdisciplinary Ph.D. coursework should reflect two or more distinct academic areas, 24 hours of dissertation research, and a minimum of 15 hours in research methods or research theory and design. The majority of courses should be at the 600 level.

Prior to being admitted into the Ph.D. in Interdisciplinary Studies, the student must complete the Proposed Course Schedule Form. No later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree, he/she must submit a formal Ph.D. Plan of Study for Graduate School approval.

Typically transferred graduate courses may not be included in the student’s interdisciplinary Ph.D. proposed course schedule form. On rare occasions, with compelling justification, the Assistant Dean of the Graduate School may approve up to 6 hours of transferred courses. This petition must come from the Chair of the Advisory Committee and is subject to official evaluation by the Graduate School Registrar and approval by the Graduate Dean, per policies in the Graduate Catalog.

Degree Progression
Interdisciplinary Studies Ph.D. students must ensure that coursework is completed in a timely manner and that satisfactory progress is made towards completing all degree requirements (coursework, comprehensive exam, admission to candidacy, dissertation proposal, dissertation research, and final oral examination). All requirements must be completed within the time limits specified in the Graduate Catalog at the time of admission.

Progress Review
During each semester of the program, the student must meet with the Advisory Committee to review progress. At the end of the spring semester the student and his/her advisor should prepare an annual written summary of progress towards degree and submit to the Assistant Dean of the Graduate School.

Comprehensive Exam
The content and administration of the comprehensive exam are the responsibility of the Advisory/Dissertation committee and should be thoroughly discussed with the student prior to admission. Typically, the comprehensive examination is taken after the completion of all coursework. It is expected that the comprehensive examination for the Interdisciplinary Studies Ph.D. will be as rigorous and use the same general procedures as the doctoral exams in the departments in which coursework is taken. The specifics of the examination (including where the exam will be taken, the number of questions, the number of evaluators, the grading process, the process for reporting results to the student, etc.) should be detailed in the admission materials (see Admission Procedures). The Committee Advisor/Chair should inform the Graduate School Registrar of the results of the comprehensive exam.

Admission to Candidacy
When the Advisory Committee certifies to the Graduate School that the comprehensive exam has been passed and all other requirements set out in the Plan of Study (except the dissertation) have been satisfactorily completed, the Graduate School admits the student to candidacy.

Dissertation
The dissertation must be completed and defended within the time limits specified by the Graduate School at the time of admission. If human subjects are involved, the student and his/her advisor/committee are responsible for complying with the Institutional Review Board requirements before beginning research.

Final Oral Examination
The final oral exam for the Ph.D. is administered and evaluated by the Advisory Committee. The Graduate School should be notified of the date of the oral examination at least one month in advance. Final oral examinations are open to the University community, and a representative from the Graduate School may attend the oral examination.

Doctoral Degrees
The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher’s degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

Doctor of Philosophy Degree
The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.
Field of specialization

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

Research skill/language requirements

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

Interdisciplinary Studies

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School’s website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

Doctor of Education Degree

A minimum of two years of graduate study beyond the master’s degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master’s degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

Doctor of Musical Arts Degree

The DMA degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN). The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

Admission to Doctoral Degree Programs

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student’s doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.

Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a "B" grade or
better may be transferred. The student must have attained an overall graduate GPA of "B" or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master's degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master's degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master's Degree form with the student's CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master's degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits
All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering the doctoral program with a baccalaureate, not master's, degree).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request
Only under compelling circumstances beyond the student's control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student describes the compelling circumstances, briefly describes the current status of the dissertation, then includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.

- If the department head supports the petition, it is forwarded to the college dean.
- If the college dean supports the petition, it is sent to the graduate dean.
- If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
- If a student fails to complete all degree requirements within the time limit for the student's doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student's department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after

- any foreign language/research skill requirements are met (PhD students only);
- two full years of graduate study are completed; and
• the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student's supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student's research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice. Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy

The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration

Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of such dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal

The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal's format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation

A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The committee shall have no fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean's approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog's section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student's major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint that member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student's dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester's dissertation deadline, are available at the Graduate School's homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student's final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:
Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the University Academic Calendar)</td>
<td>0</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student's final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (both dates published in the University Academic Calendar)</td>
<td>1</td>
</tr>
<tr>
<td>After 4:45 p.m. on the last-possible day to register or add a course for the student's final semester (date published in the University Academic Calendar)</td>
<td>3</td>
</tr>
</tbody>
</table>

"Completed" means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Members, department chairperson, and graduate dean at the University. The student's final semester begins at 12:01 a.m. on the first day of the semester. The 4:45 p.m. closure for instructors to post grades is the last-possible day for instructors to post grades for the semester before the student's final semester (date published in the University Academic Calendar).

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see "USCIS" section under "Minimum Hours—Other Policies and Regulatory Bodies" on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology

For article-style dissertations, research must be divided into a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research

Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University's Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Subjects Review Board.
Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.

Materials Science (MTLS)
The University of Alabama (UA), The University of Alabama at Birmingham (UAB), and The University of Alabama in Huntsville (UAH) offer a joint interdisciplinary program leading to a doctor of philosophy degree in materials science. The PhD program in materials science is coordinated by the Tricampus Materials Science Coordinating Committee. On each campus, the program is administered by the Campus Materials Science Program Committee.

For practical purposes, students will matriculate at a single campus. Once the student chooses a campus, that campus becomes the home campus, and the student’s records will be managed by the graduate school on that campus. However, once registered at one campus, a student is free to pursue, with minimum barriers, coursework or research opportunities at the other University of Alabama System campuses. Some courses may require travel to the other campuses, alternately some courses are offered online.

At all three universities, the interdisciplinary PhD program in materials science draws on various colleges and academic divisions. At UA, the program is supported by departments in both the College of Arts and Sciences and the College of Engineering. At UAB, the Schools of Medicine, Dentistry, and Optometry are involved, as are the School of Engineering and the School of Natural Science and Mathematics. At UAH, the College of Engineering and the College of Science participate in the program. The degree awarded to each successful candidate is the PhD Degree in Materials Science.

- Majors
  - Materials Science (Ph.D.) (p. 609)

IDGR601 GTA Assistant Only
Hours 1-12
No description available
.
IDGR602 GTA Teaching
Hours 1-12
No description available
.
IDGR603 GRA Research
Hours 1-12
No description available
.
IDGR604 GA-Student, Admin or Other
Hours 1-12
No description available
.
IDGR605 Graduate Internship
Hours 4.5
No description available
.
IDGR699 Dissertation Research
Hours 1-12
Dissertation Research.

Faculty
Program Director
Gregory Thompson
Professor
Gregory Thompson

Materials Science, Ph.D.
Admission Requirements
In order to qualify for regular admission to the doctoral program, a student must have satisfied the following minimum requirements common to all three universities:

- A bachelor’s degree (or its equivalent) from an accredited college or university in engineering or one of the physical sciences
- “B”-level scholarship, either overall or for the last 60 semester hours of undergraduate and graduate credit
- A minimum score of 1000 on the Graduate Record Examination general test
- A TOEFL score greater than 550 (or the equivalent on other acceptable language examinations), for international students
- Letters of reference
An applicant whose scholastic record reveals a deficiency in one of the first three categories above may, upon recommendation of the Campus Materials Science Program Committee chairperson (on the campus to which the student has applied) and with approval of the respective graduate dean, be admitted on a provisional basis, as provided in graduate school regulations at each campus. However, that student must follow the appropriate graduate school’s policies in achieving regularly admitted status prior to taking Program Examination I (the examination on core material).

Additional information is in the Admission Criteria section of this catalog.
See the Admission Criteria section of this catalog for more information.

Advisement
Prior to a student’s admission to the program, the student will usually discuss (perhaps via email) possible research areas with one or more faculty members. If the student is admitted to the program, the letter of admission will designate a faculty member as the tentative dissertation advisor. The advisor and/or research area can be changed during the course of study if it appears beneficial to the student, with the approval of the Campus Materials Science Program Committee.

The advisor will assist the student in program planning and other academic matters. The letter of admission will also designate one of the participating departments as the tentative home department (normally the department of the tentative advisor), and state whether the student will be financially supported by a Materials Science Program assistantship (some students have support from outside the program instead.)

A graduate supervisory committee will be appointed for the PhD student as soon as he or she passes Program Examination I and a research project is selected. The student and the advisor are responsible for recommending supervisory committee members, which must then be approved by the Campus Coordinator. Members of the committee will normally be selected from participating faculty in the Materials Science Program from the three campuses involved. Exceptions must be approved by the Campus Coordinator. The graduate committee normally includes the research advisor (as chairperson) and at least four other members. The graduate committee members are selected based on the student’s academic interests and area of research. At least one of the committee members is from the student’s research area at one of the other UA campuses, and another is from a department other than the home department on the home campus. The graduate committee is charged with supervision and approval of the student’s research and course of study toward the completion of all requirements leading to the degree.

Campus Materials Science Program Committee
This committee administers the program on each campus. Coordination encompasses some functions that are usually handled by a single-discipline department. The Campus Materials Science Program Committee is chaired by the campus program coordinator, who acts as director or chairperson for the program.

Degree Requirements
Qualifying, Comprehensive, and Other Program Examinations
Program Examination I covers the program’s core material. The core is divided into three topic areas:

1. structure and properties;
2. characterization and testing; and
3. thermodynamics and processing.

Program Examination I qualifies the student to enter the advanced program. It is administered simultaneously system-wide by the Tricampus Coordinating Committee, at pre-announced dates, at least once per year (sometimes once per semester). The individual campus program committees will solicit input from the faculty and assist in preparing and grading the system-wide examination. The student may choose to take two or all three parts of Program Examination I at a sitting (unless only one part remains to be taken). It is expected that a student must make at least one attempt to pass the exam during the first two years of study. All parts of the examination must be completed within a total of three years, or by the fourth administration of the exam if this occurs later than three years after admission. Failure to pass all parts of the examination after this time disqualifies a student from the PhD program.

Program Examination II includes a comprehensive examination covering material in the student’s specialization, as well as a dissertation proposal defense. This examination is normally taken near the end of formal coursework and is prepared, administered, and graded by the student’s graduate supervisory committee. The last exam is an oral exam, the dissertation defense, which also is administered by the graduate supervisory committee.

A Student Handbook describing the details of Program Examinations and other aspects of the Program is on the Program’s UA Campus website.

Candidacy and Dissertation Requirements
Admission to candidacy for the doctoral degree is contingent upon the successful completion of Program Examinations I and II (which includes the successful presentation of a dissertation research proposal.) Normally, a student is considered eligible to take Program Examination II when all of the required coursework has been completed. A department-approved Admission to Candidacy for the Doctoral Degree is submitted to the Graduate School as soon as possible after passing the program exams. See the Degree Requirements section of this catalog for details on plan of study, admission to candidacy, and all other degree requirements. After being admitted to candidacy, the student must complete the remaining requirements for the degree, the main requirement being the doctoral research and dissertation. A minimum of 48 credit hours of graduate coursework and 24 hours of dissertation research are required. These courses may be in any department, but the course program must be worked out in consultation with the advisor and approved by the dissertation committee. A maximum of 24 of the 48 coursework hours may be transferred from another institution, subject to approval. The Request for Transfer of Graduate Credit is on the Graduate School’s website. Credits in materials-related courses earned toward a master’s degree at The University of Alabama may be applied to the doctoral degree.
**Residency Requirement**

The minimum period in which the doctoral degree can be earned is three full academic years of graduate study. The student must spend the final or penultimate academic year in continuous residence as a full-time graduate student at one of the campuses.

**Time Limits**

All requirements for the doctoral degree must be completed within a period of seven years of the date of admission.

For additional residence, time limits and degree requirements information, see the Degree Requirements section of this catalog.

**Doctoral Degrees**

The University offers several types of doctorates, each of which is described below.

The Doctor of Philosophy (PhD) degree is regarded as the researcher's degree. Program requirements include the acquisition of special skills for conducting independent, scholarly research of publishable quality. Requirements traditionally include a working knowledge of one or more foreign languages, but currently a number of foreign-language alternatives have been approved by departments. Through acquisition of these skills, PhD candidates demonstrate their potential for careers as independent, publishing scholars. Refer to departmental sections of this Catalog for details on foreign-language requirements or alternatives.

The minimum period in which a doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 10 hours per week (i.e. the equivalent of 3 semester hours) or more should expect to take more than the minimum period of 3 academic years to earn a doctoral degree. The only exception to the three-year minimum is the practice-focused DNP.

**Doctor of Philosophy Degree**

The Doctor of Philosophy degree is granted on the basis of scholarly proficiency, distinctive achievement in a special field, and capacity for independent, original investigation. The first two criteria are tested in coursework and a comprehensive examination, the last in a dissertation in which the student must present clearly and effectively the results of substantial research. A combination of these accomplishments, rather than the mere accumulation of residence and course credits, is the essential consideration in awarding the PhD degree. The PhD differs from the EdD in a number of ways, including the fact that the PhD Plan of Study and comprehensive examination demonstrate a higher-level research focus, and there is a greater number of dissertation hours and higher level of complexity and independent thought in a PhD-level dissertation.

**Field of specialization**

A defined field of specialization is required of all candidates for the Doctor of Philosophy degree. A minimum of 48 semester hours of non-dissertation course credit is required. Candidates should consult their departments or the appropriate section of this Catalog for additional requirements. The doctoral course as a whole must be unified, and all its parts must contribute to an organized program of study and research. In addition, a student must complete a minimum of 24 hours of dissertation research.

**Research skill/language requirements**

There is no universitywide foreign language/research skill requirement for doctoral students; each college or department offering the PhD degree may set its own requirements. This policy reaffirms the importance of research skills and foreign languages in the highest academic degree granted by American universities, but it also recognizes that the departments offering the degrees are in the best position to determine the number and nature of such requirements in the interests of their students. For further information about PhD foreign language/research skill requirements, students may contact their departments or the Graduate School office 205-348-5921.

**Interdisciplinary Studies**

There is a PhD degree program in interdisciplinary studies, and it is administered by the Graduate School. In addition to the general requirements for the PhD degree, the program of study and the supervisory committee for the prospective interdisciplinary studies degree candidate must be approved by the dean of the Graduate School before the student is admitted to the program. See Interdisciplinary Studies (IDS) (p. 603) at the Graduate School's website for information on prerequisites, admission procedures, course of study, and other aspects of IDS programs.

**Doctor of Education Degree**

A minimum of two years of graduate study beyond the master's degree is required for the completion of the EdD program. The student is required to complete 60 semester hours in approved graduate courses beyond the master's degree, or 90 semester hours of approved graduate courses, and to defend a dissertation. The student must complete a minimum of 12 hours of dissertation research. In the College of Education (p. 380) section of the Graduate Catalog, there are specific regulations governing the EdD program.

**Doctor of Musical Arts Degree**

The DMA. degree requires a minimum of 48 semester hours beyond the Master of Music degree, plus recitals and other examinations as determined by faculty of the School of Music. Specific requirements for each major area are outlined in the School of Music (p. 206) section of the Graduate Catalog.

**Doctor of Nursing Practice**

The Doctor of Nursing Practice (DNP) (p. 574) is a joint program offered by the University of Alabama in Huntsville College of Nursing (UAHCON), the University of Alabama at Birmingham School of Nursing (UABSON), and The University of Alabama Capstone College of Nursing (UACCN).

The DNP is a practice-focused degree that is detailed in the Nursing section of this Catalog.

**Admission to Doctoral Degree Programs**

Admission to any doctoral program is limited to students whose scholastic records show distinct promise of success in doctoral study. Admission to the Graduate School and the earning of a master's degree from The University of Alabama does not guarantee acceptance into a doctoral program. Students in doubt about their acceptance into doctoral programs should consult with departmental advisors and the Graduate School, which makes the final decision about admission. A department may terminate a student's doctoral admission if there is documented unsatisfactory academic or other progress toward completion of the degree.
Residency Requirements

The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student’s doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog’s Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

Graduate Credit

A student must be admitted to the Graduate School and must register as a graduate student in order to receive graduate credit. Approval for graduate registration must be obtained from program advisors prior to registration.

Graduate Credit for Noncredit Experiences

All course credit used toward a UA graduate degree must be taught at the graduate level. No graduate credit may be earned by correspondence study or for experiential learning not conducted under the direct supervision of graduate faculty of The University of Alabama. UA does not offer graduate credit for noncredit workshops, seminars, continuing education experiences, professional development, internships, work/life experience, and so forth.

Transfer of Credit

Graduate credit earned in the field of the doctoral degree from a regionally accredited institution in which the student was enrolled in the graduate school of that university may be considered for transfer and applied towards the requirements for a doctoral degree if approved by the department and the Graduate School. Evaluation of credit for transfer will not be made until after the student has enrolled in the Graduate School of The University of Alabama.

In some cases, foreign educational credentials may not meet the Graduate School’s criteria for transfer of credit. It may be necessary for students in this situation to secure an evaluation of their credentials from World Education Services Inc. (WES), an external foreign credential evaluation service. Additional information on their services can be found at their website.

There are two options for possible transfer of graduate credit at the doctoral level.

1. All doctoral programs: Up to one-half of the required coursework (exclusive of dissertation research hours) for a doctoral degree may be transferred from another institution if the credit was in-field and was earned during the six-year period (18 fall, spring and summer semesters) preceding the semester of admission to the UA doctoral program. Revalidation (recertification) of credits more than 18 semesters old at the time of admission to a doctoral program is not an option. Only courses in which a student earned a “B” grade or better may be transferred. The student must have attained an overall graduate GPA of “B” or better on all graduate work attempted. Under this option, a Request for Transfer of Graduate Credit form must be submitted to and approved by the Graduate School.

2. PhD Programs Only: A student holding an earned, in-field master’s degree and working in the field or a related field since earning the degree may request approval for up to 24 hours of credit to be applied to the PhD. To do this, the student must have earned at least a "B" overall graduate GPA from the awarding institution. If approved for transfer, these hours would count toward the minimum 48 coursework hours required for the PhD degree. For departments participating in this program, the use of this option must be indicated on the Plan of Study.

To participate in Option 2, the Plan of Study must be submitted during the first semester of enrollment. If any coursework from the in-field or related-field master’s degree was earned more than six years prior to the date of admission, the graduate program director or department head/chair must submit to the Graduate School for evaluation a Field-Related Employment Since Earning Master’s Degree form with the student’s CV and a PhD Plan of Study.

Consideration of transfer of credit or the acceptance of an earned master’s degree as credit toward a PhD program is subject to a final decision by the Graduate School. In either case the student must ensure that the Graduate School has an official transcript of all credit involved. This will ensure that the student and advisor are fully aware of course hours needed when submitting the required Plan of Study, which must be submitted by the time the student completes 30 hours of transfer plus UA coursework. Planning to transfer courses in the penultimate semester or the final semester typically will delay graduation.

Please note that some departments allow fewer than 24 hours of graduate transfer credit. Be sure to check with your department's graduate coordinator regarding your department's transfer policy.

Each department wanting its doctoral students to be able to choose Option 2 needs to "opt in" to this option by informing the graduate dean in writing that they wish to be among the approved departments.

Time Limits

All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering a doctoral program, with the following specific exception approved by the Graduate Council). All requirements for the doctoral degree must be completed within nine years (27 fall, spring, and summer semesters) following admission to the doctoral program, with the following specific exception approved by the Graduate Council: Modern Languages and Classics (ten years if entering a doctoral program, with the following specific exception approved by the Graduate Council).

Previous graduate credit may be applied to the doctoral degree if the credit was earned during the six-year period (not seven years) prior to admission to the doctoral program or accepted by the Graduate School as part of Option 2. Such credit must be identified clearly on the Outline of PhD Program (Plan of Study) and requires Graduate School approval. Only those students graduating within the time limit for their doctoral program may apply previously approved graduate credit to the doctoral degree. Revalidation (recertification) of any expired course credit is not an option.

Time Limits Extension Request

Only under compelling circumstances beyond the student’s control a student may petition for a one-semester extension to the seven-year time limit (or eight-year time limit for the selected programs noted above). The Graduate Council approved the following steps to request an extension:

- To begin the process, the student petitions the department head. In the petition the student describes the compelling circumstances,
  - briefly describes the current status of the dissertation, then
  - includes a timeline showing each important remaining step in the completion of the dissertation. The last step and date in the timeline are submission of the successfully defended dissertation on or before the published final date for submission of dissertations for the requested extension semester.
• If the department head supports the petition, it is forwarded to the college dean.
• If the college dean supports the petition, it is sent to the graduate dean.
• If the graduate dean or his designee approves the extension, it will not require the student to validate any out-of-date UA or transfer courses previously approved for the plan of study.
• If a student fails to complete all degree requirements within the time limit for the student’s doctoral program or within a one-semester extension approved as noted above, the student will be dropped (suspended) from the doctoral program. To complete a doctoral degree, the student would have to reapply for admission and be admitted by the department and Graduate School. Graduate Council policies do not provide the option for a student failing to complete within the time limit to revalidate (recertify) either UA or transfer courses completed more than six years prior to the date of admission. Thus, a readmitted student would be able to apply to the new admission only those courses approved by the department and Graduate School and completed within the six years (18 fall, spring, and summer semesters) prior to the new admission.

Repeating Courses When Given an Extension
When requests are made for extensions of the doctoral time limits, and it is deemed that an out-of-date course is integral to the degree program, the college dean may request permission of the Graduate School for such a course to be repeated. In this case, both grades are used in calculation of the GPA.

Plan of Study
Early in the graduate program, each student must confer with the appropriate departmental advisor or major professor to select courses, discuss when and by which method the doctoral residency requirement will be completed, discuss research interests, and so forth. Then a Plan of Study must be prepared and submitted to the Graduate School.

The PhD Plan of Study and DMA Plan of Study are available at the Graduate School website. The Plan of Study for other doctoral programs (EdD, DNP) are available from the student’s department, college, or school. All doctoral students must have a completed Plan of Study approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a “hold” may be placed on future registrations.

An amended Plan of Study (if needed) must be submitted to the Graduate School when the student submits the form for Admission to Candidacy for Doctoral Degree.

Preliminary or Comprehensive Examination
A preliminary or comprehensive qualifying examination is required of all doctoral candidates. This examination is given after
• any foreign language/research skill requirements are met (PhD students only);
• two full years of graduate study are completed; and
• the supervisory committee deems the student to have adequate preparation in the major and minor fields of study.

The examination is conducted by the student’s supervisory committee or other committee established in the program area. Whereas one of the purposes of the preliminary examination is to determine the student’s research competence to begin work on a dissertation, the examination should be completed at least nine months before the degree is to be awarded. A student may take the oral or written examination only twice.

Failing the examination twice results in dismissal from the degree program and the Graduate School.

Admission to Candidacy
The requirements for advancing to candidacy include passing the qualifying (major or preliminary) examination; completion of all coursework as listed on the approved program of study; receiving departmental approval of the dissertation subject (although some departments require the defense of a dissertation proposal and/or writing one or more preliminary sections of the dissertation as well); and having the committee recommend the student for Admission to Candidacy for the Doctoral Degree. The completed candidacy form is submitted to the Graduate School well in advance of the final semester.

Continuous Dissertation or Document Registration
Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 3 hours of dissertation research. Summer enrollment for 699 Dissertation Research is expected if the student is working on the dissertation and using any University facilities or resources, including faculty time, but the only time summer registration is required for dissertation research (3 hours minimum) is when a doctoral student is graduating in August or defending the dissertation during the summer semester. This is true whether or not the student has formally submitted an Application for Admission to Candidacy.

Each PhD student must have completed a minimum of 24 hours of dissertation work upon completion of the degree. The amount of dissertation research for which a student enrolls in any given semester should be commensurate with the progress a student is expected to make on the dissertation, as well as reflective of the extent to which University facilities and faculty time are invested in the proposed activities.

Dissertation Proposal
The dissertation proposal aims to show the appropriateness, manageability, and significance of the projected research. The student formally presents the written proposal to the dissertation committee and defends it in a meeting with the committee. The proposal normally includes an introduction giving an overview and stating the significance of the proposed research, review of the literature, and methodology. Departments determine the details of the dissertation proposal’s format with respect to such things as the length of the introduction and detail of the review of the literature.

Once the student and dissertation chair have developed a proposal, and the graduate dean has approved the dissertation committee, the student schedules the dissertation proposal meeting that includes all committee members. The student cannot propose a dissertation and have its final defense in the same semester.

Dissertation
A dissertation showing the ability to conduct independent research and skill in organization, writing, and presentation must be prepared on a topic in the major field. It must constitute an original contribution to knowledge. Early in the process, the subject of the dissertation must be approved by the dissertation committee of the major department or division and by the dean of the Graduate School.

A dissertation committee, with the director of the dissertation as its chairperson, supervises the preparation of the dissertation. The
committee shall have not fewer than five members, all of whom are appointed by the dean of the Graduate School. The graduate dean’s approval of the proposed dissertation committee is expected to be obtained before significant progress is made on the dissertation—typically just before or just after the dissertation proposal meeting. For this purpose, the student submits the form for Appointment/Change of a Doctoral Dissertation Committee.

All members of a dissertation committee must be members of the UA Graduate Faculty. The committee chair must be a full member of the Graduate Faculty, as described in the Catalog’s section on Qualifications of the Graduate Faculty (p. 34). One member must be from outside the student’s major department. If the outside member is not a full or associate member of the UA Graduate Faculty (e.g., a highly qualified person from another university, a business or industry), the graduate dean needs to appoint a member by approving Temporary Graduate Faculty status for the specific purpose of serving on the student’s dissertation committee.

The final oral dissertation defense is the culminating experience in the doctoral program. As such, all members of the dissertation committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance.

The dissertation must comply with the regulations in A Student Guide to Preparing Electronic Theses and Dissertations. Graduate School deadlines, including each semester’s dissertation deadline, are available at the Graduate School’s homepage. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

The Catalog section on Continuous Dissertation Registration for Doctoral Students states that once a student qualifies for doctoral candidacy, the student must enroll each semester for at least 3 hours of dissertation (699) research. If certain conditions are met for the student’s final semester, the student may qualify to enroll for fewer than 3 hours of 699 dissertation research. A zero-hour or one-hour 699 registration is permitted only in the final semester. This exception applies only to students who registered for at least 3 hours of dissertation (699) research in the preceding semester and only under the conditions described in the table below:

### Final-Semester Dissertation (699) Minimum Registration Hours

<table>
<thead>
<tr>
<th>When was the *completed electronic dissertation submitted to ProQuest/the Graduate School?</th>
<th>Minimum hours of 699 registration required in the final semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>By 4:45 p.m. on the last-possible day for instructors to post grades for the semester before the student’s final semester (date published in the <em>University Academic Calendar)</em></td>
<td>0</td>
</tr>
</tbody>
</table>

After 4:45 p.m. on the last-possible 1 day for instructors to post grades for the semester before the student’s final semester, but before 4:45 p.m. on the last-possible day to register or add a course for the student’s final semester (both dates published in the University Academic Calendar)

After 4:45 p.m. on the last-possible 3 day to register or add a course for the student’s final semester (date published in the University Academic Calendar)

*Completed* means submitted at ProQuest after being successfully defended; being carefully edited following the defense meeting; and having the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate dean. At the time of ProQuest submission, the student also must submit the Survey of Earned Doctorates through the NORC website.

1 International students on F-1 or J-1 student visas are not permitted to use the zero-credit hour exception above as the basis of maintaining minimum enrollment requirements as active students. Please see “USCIS” section under “Minimum Hours–Other Policies and Regulatory Bodies” on page 3 of this policy.

2 The University Calendar is available at the Academics tab of the website of the University Registrar.

### Article-Style Dissertations

This approach is intended for doctoral students whose dissertation will consist of a number of related manuscripts or articles that represent independent research or creative activity. It is an option available only to students in certain fields in which the faculty have received Graduate Council approval from the Graduate Council. A complete list of these fields is below:

- Accountancy
- Aerospace Engineering and Mechanics
- Applied Statistics
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Economics
- Education (all departments)
- Electrical and Computer Engineering
- Finance
- Geological Sciences
- Health Education and Promotion
- Management
- Management Science
- Marketing
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Psychology
Article-style dissertations must be based upon research completed while the student is enrolled at The University of Alabama. For each article used, the student must be the first author, or equivalent, as defined by the discipline.

As with traditional dissertations, the article-style dissertation must be the student’s original idea. It must be a unified work and include a sequence of articles of publishable quality around a cohesive theme, with a comprehensive review of literature demonstrating an in-depth understanding of the unifying framework.

- In article-style dissertations there will be introductory material to describe the studies, show how they are related, and explain their significance;
- connecting language to bridge each study to the next; and
- a summary making clear the importance of the studies, integrating the major findings, and discussing the implications for the overall topic.

These components do not have to be separate sections or chapters. They may be parts of the manuscripts or may be accomplished in an abstract.

All parts of both traditional and article-style dissertations must conform to the provisions set forth in A Student Guide to Preparing Electronic Theses and Dissertations, except when the circumstances of a specific project or discipline’s style manual require deviation. Students considering the article-style approach should contact the Graduate School before beginning their work if they have questions concerning specific problems or deviations from traditional procedure.

All doctoral candidates must give members of the dissertation committee a minimum of two weeks to read the dissertation before the date of the required final oral examination.

Electronic submission of dissertations: August 15, 2009, is the date when electronic submission began to be required and paper submission no longer was accepted. Consult the ETD website for details of ETD submission, including information on what needs to be submitted to the Graduate School. The graduate dean must approve the dissertation before the student can be cleared for graduation.

Protection of Human Subjects for Research
Scientific research involving human subjects has produced substantial benefits for society, but it also has significant ethical questions. The mission of the University’s Institutional Review Board (IRB) for Protection of Human Subjects is to ensure that research involving human subjects is conducted ethically. University and federal policies require that review and approval to use human subjects in research precede the research, no matter how great or small the involvement of the human subjects. In the case of dissertation research that involves the use of human subjects, the principal investigator is responsible for contacting the college Human Research Review Committee to obtain approval for the planned research. The University’s IRB approval form is available at the IRB website.

Final Examinations
When the dissertation has been completed, the candidate will be given a final oral examination by a committee of not fewer than five members, one of whom must be from outside the student’s major department or, for students in the College of Education, outside the student’s area (not program), and appointed by the dean of the Graduate School. This examination will focus primarily on the candidate’s research work, as embodied in the dissertation, and the field in which the dissertation lies, but it may encompass the complete program for the degree. The results of the examination must be reported to the Office of the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

Application for Graduation
Each candidate for a doctoral degree must submit an Application for Degree via myBama not later than the last day to register or add a course of the semester or the first term of the summer session in which requirements for the degree are to be completed. That day is published for each semester at the website of the University Registrar.

Clearing the Academic Record for Commencement
At least one week before commencement, the candidate’s record must have been cleared for graduation.

Attendance at Commencement
A candidate for a doctoral degree must be present at a scheduled commencement to receive the diploma and hood, unless excused by the graduate dean.

Withholding or Withdrawing an Advanced Degree
The University of Alabama reserves the right to withhold or withdraw an advanced degree on the recommendation of the graduate faculty.
MAJORS & PROGRAMS

No results found, please try again.

- AEM Honors Program
- Accounting, BS
- Accounting, MBA
- Accounting, Ph.D.
- Addiction and Recovery Studies, Minor
- Addiction and Recovery Studies, Minor
- Advertising and Public Relations, MA
- Advertising, BA
- Aerospace Engineering and Mechanics, MSAerospace Engineering and Mechanics, MS
- Aerospace Engineering and Mechanics, Ph.D.
- Aerospace Engineering, BS
- Aerospace Engineering, Minor
- African American Studies, BA
- African American Studies, Minor
- African American Studies, Minor
- American Studies, BAAmerican Studies, BA
- American Studies, MA
- American Studies, Minor
- Analytical Excellence in Business, Certificate
- Anthropology, BA
- Anthropology, MA
- Anthropology, Minor
- Anthropology, Ph.D.
- Apparel and Textiles, BS
- Applied Statistics, MS
- Applied Statistics, Ph.D.
- Architectural Engineering, BS
- Architectural Engineering, Minor
- Art (Studio), Minor
- Art History, BA
- Art History, MA
- Art History, Minor
- Asian Studies, Minor
- Astronomy, Minor
- Athletic Training, BSAthletic Training, BS
- Biology, BS
- Biology, MS
- Biology, Minor
- Biology, Ph.D.
- Blount Scholars Program
- Blount Scholars Program
- Blount Undergraduate Initiative Minor
- Blount Undergraduate Initiative Minor
- Book Arts, MFA
- Business Administration, MBA

- Catherine J. Randall Research Scholars Program
- Chemical Engineering, BS
- Chemical Engineering, BSChemical Engineering, BSChE
- Chemical Engineering, MSChemical Engineering, MS
- Chemical Engineering, Ph.D.
- Chemical Engineering, Ph.D.
- Chemistry, BCh
- Chemistry, BCh
- Chemistry, BS
- Chemistry, MSChemistry, MSC
- Chemistry, Minor
- Chemistry, Minor
- Chemistry, Ph.D.
- Chinese, Minor
- Civic Engagement and Leadership, Minor
- Civic Engagement and Leadership, Minor
- Civil Engineering, BACivil Engineering, BS
- Civil Engineering, MCivil Engineering, MS
- Civil Engineering, Minor
- Civil Engineering, Minor
- College Teaching, Graduate Certificate
- Communication Information Sciences (CIS), Ph.D.
- Communication Information Sciences (CIS), Ph.D.
- Communication Studies, BACommunication Studies, BA
- Communication Studies, BACommunication Studies, BA
- Communication Studies, MA
- Communication Studies, Minor
- Communication Studies, Minor
- Communication Studies, Minor
- Communicative Disorders, BACommunicative Disorders, BA
- Communicative Disorders, Minor
- Computer Science, BS
- Computer Science, BS
- Computer Science, MS
- Computer Science, Minor
- Computer Science, Ph.D.
- Computing Technology and Applications, Minor
- Computing Technology and Applications, Minor
- Construction Engineering, BS
- Construction Engineering, Minor
- Construction Management, Certificate
- Construction Management, Certificate
- Consumer Conflict Management Certificate
- Consumer Sciences, BS
- Consumer Sciences, MS
- Consumer Sciences, Minor
- Counselor Education, Ed.S.
- Counselor Education, Ed.S.
- Counselor Education, Ph.D.
- Counselor Education: Clinical Mental Health Counseling Option, MA
- Counselor Education: Clinical Mental Health Counseling Option, MA
- Counselor Education: Rehabilitation Counseling Option, MACounselor Education: Rehabilitation Counseling Option, MA
- Counselor Education: School Counseling Option, MACounselor Education: School Counseling Option, MA
- Creative Media, B.A.Creative Media, B.A.
- Creative Media, MinorCreative Media, Minor
- Creative Writing, MFACreative Writing, Minor
- Criminal Justice, MinorCriminal Justice, Minor
- Criminology Criminal Justice, BACriminology Criminal Justice, BA
- Criminology Criminal Justice, MSCriminology Criminal Justice, MS
- Cyber Criminology, Minor Cyber Criminology, Minor
- Dance, BADDance, BA
- Doctor of Nursing Practice (DNP)Doctor of Nursing Practice (DNP)
- Early Childhood Education, BSEEarly Childhood Education, BS
- Early Childhood Special EducationEarly Childhood Special Education
- Economics, BAEconomics, BA
- Economics, BSEconomics, BS
- Economics, MAEconomics, MA
- Economics, MinorEconomics, Minor
- Economics, Ph.D.Economics, Ph.D.
- Educational Leadership, Ed.D.Educational Leadership, Ed.D.
- Educational Leadership, Ed.S.Educational Leadership, Ed.S.
- Educational Leadership, MAEducational Leadership, MA
- Educational Psychology, Ed.D.Educational Psychology, Ed.D.
- Educational Psychology, Ed.S.Educational Psychology, Ed.S.
- Educational Psychology, MAEducational Psychology, MA
- Educational Psychology, Ph.D.Educational Psychology, Ph.D.
- Educational Psychology-School Psychometry, MAEducational Psychology-School Psychometry, MA
- Educational Research, Ph.D.Educational Research, Ph.D.
- Educational Studies MinorEducational Studies Minor
- Electrical Engineering, BSEElectrical Engineering, BS
- Electrical Engineering, MSElectrical Engineering, MS
- Electrical Engineering, MinorElectrical Engineering, Minor
- Electrical Engineering, Ph.D.Electrical Engineering, Ph.D.
- Elementary Education, BSEElementary Education, BSE
- Elementary Education, Ed.D.Elementary Education, Ed.D.
- Elementary Education, Ed.S.Elementary Education, Ed.S.
- Elementary Education, MAElementary Education, MA
- Elementary Education, Ph.D.Elementary Education, Ph.D.
- English as a Second Language, MAEnglish as a Second Language, MA
- English, BAEnglish, BA
- English, MAEnglish, MA
- English, Minor English, Minor
- English, Ph.D.English, Ph.D.
- Entrepreneurship, MinorEntrepreneurship, Minor
- Environmental Engineering, BSEnvironmental Engineering, BS
- Environmental Engineering, CertificateEnvironmental Engineering, Certificate
- Environmental Engineering, MSEnvironmental Engineering, MS
- Environmental Science, BSEnvironmental Science, BS
- Environmental and Water Resources Engineering, MinorEnvironmental and Water Resources Engineering, Minor
- Ethics and Social Responsibility, CertificateEthics and Social Responsibility, Certificate
- Evolutionary Studies, MinorEvolutionary Studies, Minor
- Family Nurse Practitioner CertificateFamily Nurse Practitioner Certificate
- Finance, BSFinance, BS
- Finance, MSAFinance, MS
- Finance, Ph.D.Finance, Ph.D.
- Food and Nutrition, BSFood and Nutrition, BS
- Food and Nutrition, MinorFood and Nutrition, Minor
- Foreign Languages and Literature, BAForeign Languages and Literature, BA
- French, MinorFrench, Minor
- General Business, BSGeneral Business, BS
- General Business, MinorGeneral Business, Minor
- General Studies Human Environmental Sciences, M.S.General Studies Human Environmental Sciences, M.S.
- General Studies in HES, BSGeneral Studies in HES, BS
- Geographic Information Systems (GIS), MinorGeographic Information Systems (GIS), Minor
- Geography, BAGeography, BA
- Geography, BSGeography, BS
- Geography, MSGeography, MS
- Geography, MinorGeography, Minor
- Geography, Ph.D.Geography, Ph.D.
- Geological Sciences, MSGeological Sciences, MS
- Geological Sciences, Ph.D.Geological Sciences, Ph.D.
- Geology, BAGeology, BA
- Geology, BSGeology, BS
- Geology, BSGeology, BSG
- Geology, MinorGeology, Minor
- German, MAGerman, MA
- German, MinorGerman, Minor
- Global Studies, CertificateGlobal Studies, Certificate
- Greek, MinorGreek, Minor
- Health Education Promotion, MPHHealth Education Promotion, MPH
- Health Education Promotion, Ph.D.Health Education Promotion, Ph.D.
- Health Studies, MAHealth Studies, MA
- Higher Education Administration, Ed.D.Higher Education Administration, Ed.D.
- Higher Education Administration, MAHigher Education Administration, MA
- Higher Education Administration, Ph.D.Higher Education Administration, Ph.D.
- History, BAHistory, BA
- History, MAAHistory, MA
- History, MinorHistory, Minor
- History, Ph.D.History, Ph.D.
- Hospitality Management, BSHospitality Management, BS
- Human Development and Family Studies, BSHuman Development and Family Studies, BS
- Human Development and Family Studies, MinorHuman Development and Family Studies, Minor
- Human Nutrition, MSHuman Nutrition, MS
Population Health Sciences, MS
Psychiatric Mental Health Nurse Practitioner Certificate
Psychology, BA
Psychology, BS
Psychology, MA
Psychology, Minor
Psychology, Ph.D.
Public Administration, MPA
Public Health, BS
Public Policy, Minor
Public Relations, BA
Public Relations, Minor
Qualitative Research, Graduate Certificate
Quantitative Educational Research, Graduate Certificate
Religion in Culture, M.A.
Religious Studies, BA
Religious Studies, Minor
Research Methodology, Ed.S.
Romance Languages - French, MA
Romance Languages - French, Ph.D.
Romance Languages - Spanish, MA
Romance Languages - Spanish, Ph.D.
Romance Languages, MA
Romance Languages, Ph.D.
Rural Community Health, Certificate
Rural Community Health, MS
Russian, Minor
School Psychology, Ed.S.
School Psychology, Ph.D.
Secondary Education, BSE
Secondary Education, Ed.D.
Secondary Education, Ed.S.
Secondary Education, MA
Secondary Education, Ph.D.
Social Welfare, Minor
Social Work, BSW
Social Work, MS
Sociology, Minor
Spanish, BASpanish, BA
Spanish, Minor
Special Education, Ed.D.
Special Education, Ed.S.
Special Education, M.A.
Special Education, Ph.D.
Speech Language Pathology, MS
Sports Media, Minor
Structural Engineering, Minor
Student Designed, Minor
Studio Art, BA
Studio Art, BFA
Studio Art, MFA
Tax Accounting, MTA
Theatre with a Musical Theatre Concentration, BA
Theatre, BA
Theatre, BFA
Theatre, MFA
Theatre, Minor
Transportation Engineering, Minor
Women's Studies, MA
Women's Studies, Minor
Women's Studies, Minor
Women's Studies, Minor
World Business, Minor
World Literature, Minor
World Literature, Minor
UNDERGRADUATE CATALOG

About the University

Our Mission
The University of Alabama will advance the intellectual and social condition of the people of the state, the nation, and the world through the creation, translation, and dissemination of knowledge with an emphasis on quality programs in the areas of teaching, research, and service.

Our Vision
The University of Alabama will be known as the university of choice for the best and brightest students in Alabama, and all students who seek exceptional educational opportunities. The University of Alabama will be a student-centered research university and an academic community united in its commitment to enhance the quality of life for all Alabamians and the citizens of the nation and the world.

Our Strategic Goals
The goals identified here are pillars of our Strategic Plan. They are designed to be high-level in nature and are built on the assumption that campus units will base their planning efforts on this overarching strategic plan. Some of the strategies necessary to facilitate the University’s plan are college and department based, while others are Universitywide initiatives.

• Provide a premier undergraduate and graduate education that offers a global perspective and is characterized by outstanding teaching, high-quality scholarship, and distinctive curricular and co-curricular programs.
• Increase the University’s productivity and innovation in research, scholarship, and creative activities that impact economic and societal development.
• Enrich our learning and work environment by providing an accepting, inclusive community that attracts and supports a diverse faculty, staff, and student body.
• Provide opportunities and resources that facilitate work-life balance and enhance the recruitment and retention of outstanding faculty and staff.

Location
The University of Alabama is located in Tuscaloosa, a city with a metropolitan population of approximately 98,000 in the west-central part of the state. The post office address of The University of Alabama is Tuscaloosa, AL 35487. University grounds include more than 1,000 acres. The University maintains a center in Gadsden and a governmental relations office in Montgomery. Separate campuses of the University have been established in Birmingham and Huntsville. These campuses are known as The University of Alabama at Birmingham and The University of Alabama in Huntsville.

Divisions of the University

Vice Presidents’ Offices
• Academic Affairs
• Community Affairs
• Diversity, Equity and Inclusion
• Financial Affairs
• Research and Economic Development

• Strategic Communications
• Student Life
• University Advancement

Academic Units
• College of Arts and Sciences
• Culverhouse College of Business
• College of Communication and Information Sciences
• College of Community Health Sciences
• College of Continuing Studies
• College of Education
• College of Engineering
• Graduate School
• Honors College
• College of Human Environmental Sciences
• School of Law
• Capstone College of Nursing
• School of Social Work

Support Units
• Capstone International
• Center for Communication and Educational Technology
• Center for Teaching and Learning
• College of Continuing Studies
• Libraries at The University of Alabama
• Oak Ridge Associated Universities
• Office of Disability Services
• Office of Information Technology
• Office of Institutional Research and Assessment
• Office of Undergraduate Admissions
• Office of the University Registrar
• Technology and Testing
• University of Alabama Press
• University Writing Center

Accreditation
The University of Alabama is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters, educational specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097 or call 404-679-4500 for questions about the accreditation of The University of Alabama.

In addition, selected programs have been accredited by the AASCB International-The Association to Advance Collegiate Schools of Business; ABET, Inc.-Accrediting Board for Engineering and Technology; Accrediting Council on Education in Journalism and Mass Communication; American Association of Family and Consumer Sciences; American Bar Association; American Library Association; Alabama State Department of Education; Alabama State Board of Health; Accrediting Council for Graduate Medical Education; American Psychological Association; American Speech Language-Hearing Association; Association of University Programs in Health Administration; Commission on Accreditation of Athletic Training Education Programs; Commission on Accreditation for Dietetics Education; Commission on Collegiate
Nursing Education; Commission on English Language Program Accreditation; Council on Social Work Education; Council for Interior Design Accreditation; Council for Accreditation of Counseling and Related Education Programs; Council on Rehabilitation Education; Liaison Committee for Medical Education; National Association of School Psychologists; National Association of Schools of Art and Design; National Association of Schools of Music; National Association of Schools of Dance; National Association of Schools of Theatre; and the National Council for Accreditation of Teacher Education.

History of the University
1818-1820
In 1818, the federal government authorized Alabama Territory to set aside a township for the establishment of a "seminary of learning." Alabama was admitted to the Union on March 2, 1819, and a second township was added to the grant. On December 18, 1820, the seminary was officially established and named "The University of the State of Alabama."

1827
Tuscaloosa, then the state’s capital, was chosen as the University’s home.

1831
On April 12, inaugural ceremonies were held, and on April 18 the first students began to enroll. By May 28, 52 students had enrolled. The campus consisted of seven buildings: two faculty houses, two dormitories, the laboratory, the hotel (now Gorgas House) and the Rotunda.

1837
The University of Alabama became the first in the state to offer engineering classes. It was one of the first five in the nation to do so and one of the few to have continuously maintained accreditation since national accreditation began in 1936.

1841
President’s Mansion was completed. Its first occupant, Basil Manly, was the University president from 1837 to 1855.

Total University enrollment: 63

1850
Alabama Alpha chapter of Phi Beta Kappa established.

1851
Total University enrollment: 126

1859
Medical College branch of the University opened in Mobile.

1860
The University of Alabama became a military school — martial departmental and disciplinary systems established.

1861
Total University enrollment: 154

1865
Union troops spared only seven of the buildings on the UA campus. Of the principal buildings remaining today, the President’s Mansion and its outbuildings still serve as the president’s on-campus residence. The other buildings have new uses. Gorgas House — at different times the dining hall, faculty residence and campus hotel — now serves as a museum. The Roundhouse, then a sentry box for cadets and later a place for records storage, is a campus historical landmark. The Observatory, now Maxwell Hall, is home to the Computer-Based Honors Program.

1868
The Medical College reopens in Mobile.

1871
During the Reconstruction era, a reorganized University opened to students.

Total University enrollment: 107

1872
The School of Law was established.

1881-82
Antecedents of the UA College of Engineering were established with the offering of a formal, two-year course of study in civil engineering under the aegis of applied mathematics in 1837. The College of Engineering was established in 1909 with the opening of B.B. Comer Hall.

Total University enrollment: 154

1891
Total University enrollment: 167

1892
The University’s first football team assembled — the "Thin Red Line" that later became the "Crimson Tide."

1893
The first female students enrolled for the fall semester at the University. This was due in large part to the successful lobbying of the UA board of trustees by Julia S. Tutwiler. Tutwiler, then president of the Livingston Normal College for Girls, was a lifelong advocate of women’s rights to be self-supporting members of society.

1894
The student newspaper, The Crimson White, makes its first appearance.

1901
Total University enrollment: 396

1903
In March, the Alabama Legislature decreed that, after 30 years of student protest, the military system of organization at the University be abandoned.

1904
A summer school for teachers began in response to a need for better public education in Alabama, becoming the School of Education in 1909. The College of Education was established in 1929.

1906
At the University’s diamond jubilee celebration, President John William Abercrombie presented to the board of trustees his plans for the Greater University fund-raising campaign, thus ensuring that the state legislature would no longer be the primary source for financing the University’s growth.

1909
To meet the demands for specific training in two professions, the College of Engineering and the School of Education were established. Formerly
part of the liberal arts disciplines, these new offspring would function independently of the now-reorganized College of Arts and Sciences.

1910
The Alabama Museum of Natural History in Smith Hall was dedicated. Smith Hall served as a geological museum for the University's growing collections and still houses the Museum today.

1911
Total University enrollment: 571

1912
Dr. George Denny became University president; the campus consisted of 652 students and nine principal buildings. His presidency began an era of unprecedented physical and enrollment growth. When he retired in 1936, there were more than 5,000 students and 23 major buildings which now form the central core of the modern campus.

1914-15
The University band was organized.

1919
The School of Commerce was founded. It became the College of Commerce and Business Administration in 1929. It was renamed the Culverhouse College of Commerce and Business Administration in 1997. In 2013, the name was shortened to the Culverhouse College of Business.

1920
The Medical College moved from Mobile to Tuscaloosa.

1921
Total University enrollment: 2,134

1924
The Graduate School was officially established.

1929
Denny Chimes was dedicated. Named for Dr. George H. Denny, president of the University from 1912 to 1936.

1931
The School of Home Economics was officially established. It became the College of Human Environmental Sciences in 1987.

Total University enrollment: 4,639

1939
Moundville Archaeological Park and its museum opened to the public.

1941
Total University enrollment: 4,921

1945
The Medical College moved from Tuscaloosa to Birmingham.
The University Press was formed.

1948
Introduction of doctoral programs was authorized; first doctorates awarded in 1952.

1951
Total University enrollment: 5,269

1956
The University of Alabama’s first African-American student, Atherine J. Lucy, was admitted. She was expelled three days later "for her own safety" in response to threats from a mob. In 1992, Atherine Lucy Foster graduated from the University with a master’s degree in education. That same day, her daughter, Grazia Foster, graduated with a bachelor’s degree in corporate finance.

1961
Total University enrollment: 8,257

1963
The first sustained enrollment of African-American students at UA — Vivian J. Malone and James A. Hood — was achieved. Vivian Malone graduated in 1965. James Hood returned to campus in 1995 and received a PhD in interdisciplinary studies in 1997.

1965
The School of Social Work was established.

1968
The Computer-Based Honors Program, in which undergraduate students apply computer technology to research in a wide range of fields, was established.

1969
The Graduate School of Library Service was established by act of the Alabama Legislature. It became the School of Library and Information Studies in 1989. The School merged with the College of Communication in 1997 to become the College of Communication and Information Sciences.

1970
New College was established to allow students to pursue individualized courses of study while maintaining the academic standards of the University.

1971
The College of Community Health Sciences was established.

Total University enrollment: 13,055

1973
The School of Communication was established. It became the College of Communication in 1988 and, when it merged with the School of Information Sciences, was renamed the College of Communication and Information Sciences in 1997.

1976
The Capstone College of Nursing was established.

1981
The University celebrates its sesquicentennial.

Total University enrollment: 16,388

1983
The College of Continuing Studies was established. In the 1970s it was called Extended Services, then the Division of Continuing Education.

1985
The MFA Program in Book Arts, with specializations in printing and binding, was established within the School of Library and Information
Studies. It was one of only three in the country to offer such an MFA, and the only one do so within the context of a library school.

1986
The University Honors Program was established.
The University’s computerized library card catalog, AMELIA, became available for use.

1991
Total University enrollment: 19,366

1994
The Stallings Center opened as the new home of the RISE Program.

1996
The Blount Undergraduate Initiative was established (first freshman class accepted in 1999).

1998
The Second Capital Campaign was concluded, having raised a total amount of $224 million in gifts and pledges.
International Honors Program was established.
Modeled on UA’s RISE Program, the RISE School of Dallas, Texas, opened.
Renovation of Bryant-Denny Stadium was completed, increasing capacity to 82,000.

1999
The Student Services Center was completed.
Renovation of Sewell-Thomas Baseball Field to a capacity of 6,000 seats began.
First freshman class accepted in Blount Undergraduate Initiative. Parker-Adams Hall serves as its temporary headquarters.

2000
English major Bradley Tuggle from Decatur, Ala., named UA’s 15th Rhodes Scholar.
Historic Barnard Hall rededicated as Oliver-Barnard Hall, the first of two Blount Undergraduate Initiative academic houses.
Construction of 1,500-seat UA Softball Complex completed.
Blount Living-Learning Center opens to its first resident class.
Construction of Alabama Institute for Manufacturing Excellence (AIME) completed.
Morgan Auditorium reopens after $1 million renovation, the first since its construction in 1911.

2001
UA alumnus Lt. Col. Jim Kelly pilots a Discovery space shuttle mission.
For the third consecutive year, the UA School of Law ranked among the best in the nation, according to U.S. News & World Report.
UA and Auburn University form the "Alabama-Auburn Alliance" to support fair funding of higher education.
Tide Navigator, a Web-based registration system that is the first of its kind in the United States, debuts with incoming freshmen.
Total University Enrollment: 19,633

2002
Crimson Tradition Fund established with $10 million gift by Paul Bryant Jr.
UA named one of the top 50 public universities in the nation by U.S. News & World Report for 2003.
UA student Kana Ellis of Northport, Ala., selected as the first recipient of the Honors Student of the Year Award by the National Collegiate Honors Council (NCHC).
College of Community Health Sciences breaks ground for its $12.6 million facility, designed to consolidate all services and operations of the Tuscaloosa medical campus.

2003
Greensboro East High School, in collaboration with UA, became the first high school in Alabama to establish a state-of-the-art Math Technology Learning Center.
Five students from UA named to the 2003 USA Today All-USA College Academic Team. UA students garnered the most awards of any college or university, claiming five of 83 spots on the list.
UA recognized 40 "pioneers" during three days of events to commemorate the 40th anniversary of Gov. George C. Wallace's "stand in the schoolhouse door." Opening Doors, 1963-2003
UA named one of the top 50 public universities in the nation by U.S. News & World Report for 2004.
UA senior Rob Davis selected as one of three 2003 Portz Scholars in the National Collegiate Honors Council's competition for outstanding undergraduate Honors papers.
Total University Enrollment: 20,333

2004
University Medical Center, UA's new multi-specialty clinic and home of the College of Community Health Sciences, opened on May 11.
UA named one of the top 50 public universities in the nation by U.S. News & World Report for 2005.
Total University Enrollment: 20,969

2005
Five UA students named to the 2005 USA Today All-USA College Academic Team, the most of any school in the nation. UA's three-year total of 14 also tops all other colleges and universities.

2008
Seven UA students named to the 2008 USA Today All-USA College Academic Team, the most of any school in the nation. UA's total of 31 tops all other colleges and universities.
Total University Enrollment: 27,052

2009
 UA is ranked 10th in the nation among public universities in the enrollment of National Merit Scholars for the 2009 freshman class.
Total University enrollment: 28,807
2010

UA is ranked 6th in the nation among public universities in the enrollment of National Merit Scholars for the fall 2010 freshman class.

With a record of 10 students named to USA Today's 2010 All-USA College Academic Team, UA leads the nation in placing students on the national team, having placed a total of 46 students on the team since 2003.

Total University enrollment: 30,232

2011

UA scores a perfect four out of four with Goldwater Scholars in 2011 as all four UA students who applied were named recipients of the elite academic award. In all, UA has claimed a total of 34 Goldwater Scholars in the past 25 years.

The 2011 entering freshman class, at 5,772 students, is the largest in UA history and includes 1,614 students who had a 4.0 or higher high school grade point average. The freshman class also included 181 National Merit Scholars, ranking the University second in the nation among public universities in the enrollment of National Merit Scholars.

Total University enrollment: 31,747

2012

Named among the top 50 public universities in the nation by U.S. News and World Report's annual college listing for more than a decade, UA ranks 31st among public universities, its highest ranking ever, for 2012.

The 2012 entering freshman class, at 6,397 students, is the largest and best qualified in UA history and includes 239 National Merit Scholars.

UA's debate and forensics program wins its 19th national debate championship.

Three UA students are named Goldwater Scholars and one is named a Truman Scholar, increasing UA's totals for the last 25 years to 37 Goldwater Scholars and eight Truman Scholars.

Total University enrollment: 33,602

2014

Enrollment at The University of Alabama reached a record high 36,155 students.

The freshman class included 6,856 students, a 5.8 percent increase over the previous fall.

The freshman class had an average ACT score of 26.1, the highest in UA history, and included 135 National Merit Scholars and 20 National Achievement Scholars.

2015

The University of Alabama reached a record high of 37,100 for fall 2015. The entering freshman class, at 7,211 students, was the largest and best qualified in UA history.

More than one-third of the freshman class scored 30 or higher on the ACT, placing them in the top 5 percent of students taking the ACT.

Currently, The School of Law is ranked 28th among all law schools in the nation for 2016. The School of Library and Information Studies is ranked 18th nationally in the latest rankings for library schools. PRWeek Magazine has recognized the public relations program in The University of Alabama's College of Communication and Information Sciences as one of the top five programs in the nation six times. In addition, U.S. News and World Report ranks The University of Alabama’s Manderson Online Business Master’s programs 12th in the nation.

Academic Regulations

Office of the University Registrar

The University of Alabama has long subscribed to the ethical principles for confidentiality of student records that are recommended by the American Association of Collegiate Registrars and Admissions Officers. Following passage of the Family Education and Privacy Act of 1974 (the Buckley Amendments) and as amended, the University established policies and procedures to implement that legislation. The statement of these policies can be accessed online at registrar.ua.edu/academics-policies/ferpa.

For more information, contact The University of Alabama, Office of the University Registrar, 206 Student Services Center, Box 870134, Tuscaloosa, AL 35487-0134; email registrar@ua.edu; or visit registrar.ua.edu.

Academic Policies

Academic Bankruptcy

Academic bankruptcy involves a student's request to retroactively withdraw from one academic term of study because of extreme personal, emotional, or financial circumstances so devastating that it was impossible for the student to perform academically at a level approximating the usual record of achievement. Read more. (p. 625)

Academic Second Opportunity

A student who has been separated from The University of Alabama for at least three academic years may petition the dean of his or her college to apply for readmission through Academic Second Opportunity. Read more. (p. 625)

Credit by Examination

Credit by examination and credit for several types of out-of-class experiences are recognized by The University of Alabama. Read more. (p. 626)

Scholastic Progress Standard, Academic Status, Warning, and Suspension

In order to monitor students' progress toward the baccalaureate degree, The University of Alabama employs the Scholastic Progress Standard (SPS). Read more. (p. 625)

Student-Athlete Satisfactory Progress

A student-athlete who has completed at least one academic year in residence at The University of Alabama shall be required to satisfy minimum academic progress requirements for continuing athletic eligibility. Read more. (p. 630)

Transfer Credit

This policy statement adheres to the guidelines set forth in the Joint Statement on the Transfer and Award of Credit developed by the American Association of Collegiate Registrars and Admissions Officers (AACRAO), American Council on Education (ACE), and the Council for Higher Education Accreditation (CHEA). Read more. (p. 630)
Transfers Within the University
A student registered in an undergraduate division of The University of Alabama who has earned fewer than 45 semester hours may transfer to another undergraduate division. Read more. (p. 633)

Withdrawal
A student may withdraw from or drop an individual course until the end of the tenth week of a fall or spring semester, the second week of Interim session, the third week of a five-week summer session or the fourth week of a 10-week session. After this period, students are expected to maintain their course loads. Read more. (p. 633)

Academic Bankruptcy
Academic bankruptcy involves a student’s request to retroactively withdraw from one academic term of study because of extreme personal, emotional, or financial circumstances so devastating that it was impossible for the student to perform academically at a level approximating the usual record of achievement. The summer sessions are considered one academic term. The following specific regulations apply to any petition for academic bankruptcy:

- Only currently enrolled students are eligible to request academic bankruptcy.
- Academic bankruptcy is never granted for the academic term in which the student is currently enrolled, nor for the previous academic term.
- Academic bankruptcy is only granted for coursework completed during an academic term at The University of Alabama. Transfer and placement credits are not eligible for academic bankruptcy.
- Petitions must be filed prior to graduation.
- No more than one petition for academic bankruptcy may be approved during the student’s academic career at The University of Alabama.
- If the petition is approved, the grades for all courses taken during the academic term in question will be recorded as “W” (Withdrawn).
- The application for academic bankruptcy is filed in the dean’s office of the academic division in which the student is enrolled. Once a student has been enrolled in an academic division for two terms, that division has the authority to grant academic bankruptcy for a term in which the student was enrolled in another academic division.

Academic Second Opportunity
A student who has been separated from The University of Alabama for at least three academic years may petition the dean of his or her college to apply for readmission through Academic Second Opportunity. The petition must be received in the dean’s office prior to the last day of class for the semester in which the student returns to the University. If the petition is approved, the student will be readmitted regardless of previous scholastic performance, unless separation from the University resulted from academic misconduct. In cases of academic misconduct, readmission will be reviewed by the academic dean (or his or her designee) for the school or college in which readmission is sought.

If the application for Academic Second Opportunity is accepted, all previous academic work remains on the student’s permanent record, but the grades for previous work are not used in computing the GPA. Grades of "C" or higher earned during previous college attendance are computed as "passing hours" (P) and may be applied to major program, distribution, and graduation requirements. Grades of "D" earned during previous college attendance may not be applied to major program, distribution, or graduation requirements. These grade modifications are only applicable to coursework completed during an academic term at The University of Alabama. Transfer and placement credits are not eligible for Academic Second Opportunity.

The student then pursues his or her academic program with no University of Alabama GPA, and thereafter is subject to the conditions of warning, probation, and dismissal that govern all students. Once invoked, Academic Second Opportunity cannot be revoked and it may be awarded only once and may not be awarded retroactively. Students who are awarded Academic Second Opportunity are excluded from candidacy for the Latin honors designations of cum laude, magna cum laude, and summa cum laude. These honors may also be referred to as University Honors.

A student who has a degree from another institution but was previously a student at UA or who has a degree from UA is not eligible for consideration.

Scholastic Progress Standard, Academic Status, Warning and Suspension
The University of Alabama expects all students who enroll to make progress toward the completion of degree requirements. The University reviews each student’s academic record at the end of each major semester (fall or spring) to determine academic status. The following academic standards for continued enrollment at The University of Alabama apply to all students as they progress toward graduation.

Scholastic Progress Standard
In order to monitor students’ progress toward the baccalaureate or undergraduate degree and determine academic status, The University of Alabama employs the Scholastic Progress Standard (SPS). The SPS sets the minimum required cumulative University of Alabama (institutional) grade point average (GPA), which is calculated based only on credit hours earned at The University of Alabama, for freshman, sophomore, junior, and senior students. For example, applying the SPS formula set forth below, a student who has earned 75 overall credit hours (50 UA credit hours and 25 transfer credit hours) is classified as a junior, which means the student must have a cumulative UA GPA—based only on the 50 credit hours earned at UA—of 1.90 or higher to satisfy SPS. Students are advised that these are minimum GPA requirements for continuing at the University; to meet divisional graduation requirements, higher GPAs may be needed.

University of Alabama GPAs are computed on the following grades: "A," "B," "C," "D," "F," or "I" and any pluses or minuses that appear on the record. In computing a GPA, an "I" counts as an "F" until replaced by an earned grade. A grade of "NC," "P," or "W" does not enter into the computation.

<table>
<thead>
<tr>
<th>Overall Credit Hours Earned*</th>
<th>Required Cumulative University of Alabama GPA**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30 (freshman)</td>
<td>1.50</td>
</tr>
<tr>
<td>31-60 (sophomore)</td>
<td>1.70</td>
</tr>
<tr>
<td>61-90 (junior)</td>
<td>1.90</td>
</tr>
<tr>
<td>91 or more (senior)</td>
<td>2.00</td>
</tr>
</tbody>
</table>

* Includes transferred credit hours
** Does not include transferred credit hours
Academic Status

Academic status at The University of Alabama is determined at the end of each term of enrollment (fall, spring, and summer) on the basis of The University of Alabama cumulative GPA and number of overall credit hours earned (Scholastic Progress Standard). Academic status governs a student’s enrollment status and governs any condition(s) associated with re-enrollment or eligibility for enrollment.

There are four categories of academic status at The University of Alabama: good standing, academic warning, one-term suspension, and indefinite suspension.

Good Standing - Students will be in good standing, and continue in good standing, when their University of Alabama cumulative GPA is 2.00 or higher.

Academic Warning - Students will be placed on academic warning if their cumulative GPA at UA falls below 2.0 but a student’s status is within the appropriate Scholastic Progress Standard (SPS) parameters (for example, a student with 45 overall credit hours earned with a 1.90 cumulative GPA at UA will be placed on academic warning).

The purpose of academic warning is to alert students to improve their academic performance and encourage their use of available appropriate academic support.

Students placed on academic warning must meet with their current divisional academic advisor(s) within the time period specified by the student’s college or school.

Academic warning does not restrict students’ ability to register at UA but does govern a requirement to be advised.

One-Term Academic Suspension – Students previously placed on Academic Warning (UA GPA of less than 2.00) who do not earn the required minimum University of Alabama cumulative GPA based on Scholastic Progress Standard will be placed on one-term academic suspension. No student may be placed on academic suspension who has not spent the prior term of enrollment on Academic Warning. Students placed on one-term academic suspension will be on academic leave during the next major term (fall or spring).

The one-term academic suspension will be marked on the student’s permanent academic transcript. After students sit out for one major semester (fall or spring) they will automatically be eligible for enrollment for the next term. Students returning from a one-term academic suspension must meet with their current divisional academic advisor(s) within the time period specified by the student’s college or school.

Individual colleges and programs may set academic continuation parameters for their specific programs.

Indefinite Academic Suspension - Students will be placed on indefinite academic suspension if they fall below the required minimum University of Alabama cumulative GPA designated by the Scholastic Progress Standard after being reinstated from the one-term academic suspension. No student may be placed on indefinite academic suspension who has not previously been on one-term academic suspension. A student on indefinite academic suspension will be on academic leave for an indefinite period of time but a minimum of one academic year. (See summer enrollment option below.) Following the minimum academic leave, permission to return to UA may be reviewed by the college or school designee where the student was previously enrolled.

Individual colleges and programs may set academic continuation parameters for their specific programs.

Summer Enrollment Option

Students placed on one-term or indefinite academic suspension are eligible to enroll in summer courses at The University of Alabama during the summer term immediately following their suspension. (For example, a student on indefinite academic suspension after the fall term is not eligible to enroll in the spring term but is eligible for the summer term). If students earn grades sufficient to lift their required minimum UA cumulative GPA to or above the appropriate level set by the Scholastic Progress Standard during the summer term after being placed on academic suspension, students will earn reinstatement for the fall term.

Appeal of Suspension Status

A petition to waive the academic rules related to academic suspension will not normally be considered until the student has been absent from The University of Alabama for the designated time period (one major term, i.e. fall or spring semester) for a one-term suspension and one academic year (both fall and spring) for an indefinite suspension. Students may be reinstated only upon the approval of the college or school in which they were last enrolled. A favorable decision by the college or school designee is unlikely without academic leave from the University.

Returning After Indefinite Suspension

After the required minimum academic leave of one year, students may re-enter The University of Alabama after a favorable action by the school or college designee in which the student was last enrolled. After being absent from UA for one academic year (both fall and spring), students must appeal to the school or college for reinstatement at least 30 days prior to the term in which they wish to enroll. It is strongly recommended that students meet with an academic advisor to develop a plan for returning from suspension before they appeal to return.

Readmission

A student who has been absent from The University of Alabama for one year or more must apply for readmission to UA in addition to appealing to the school or college for reinstatement. The opportunity to seek readmission is merely that: a student has no right to readmission and has no reasonable expectation of a right to readmission or re-enrollment. All students seeking readmission are subject to relevant eligibility criteria, rules, and regulations associated with admission/readmission that are applicable at the time the student seeks readmission.

Credit by Examination

Credit by examination and credit for several types of out-of-class experiences are recognized by The University of Alabama. Credits can be earned through satisfactory completion of one of the standardized national exams including, but not limited to, the Advanced Placement (AP) program, the College Level Examination Program (CLEP), the International Baccalaureate (IB) program, as well as the General Certificate of Education (GCE) Advanced and Advanced Subsidiary Level exams.

Credit hours earned by examination and/or out-of-class experiences are not considered University of Alabama institutional coursework, and therefore may not be applied towards fulfillment of:

- the minimum of 50 percent of the coursework required to earn a bachelor’s degree at The University of Alabama that must be earned at a bachelor’s degree-granting institution (four-year college or university)
- the minimum of 25 percent of the coursework required for the degree that must be earned at The University of Alabama
Courses numbered 197 indicate lower-level elective credit. Some colleges or degree programs may not allow 197 elective credit to complete degree requirements. Students should contact their college of enrollment for details.

Courses determined not to have a direct University of Alabama equivalent but deemed worthy of core credit will be indicated as TRGS followed by the corresponding core designation. The student's college of enrollment will have to grant an exception or substitution if the course should be applied to the major and/or minor.

### Advanced Placement (AP)

<table>
<thead>
<tr>
<th>Examination</th>
<th>Minimum UA Course</th>
<th>Credit</th>
<th>Core Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>4 ARH 252 &amp; ARH 253</td>
<td>6</td>
<td>FA</td>
</tr>
<tr>
<td>Art, Studio (2-D Design, 3-D Design or Drawing Portfolio)</td>
<td>4 ART 110, ART 130, ART 131, and/or ART 197</td>
<td>3-6&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>3 BSC 108 &amp; BSC 109</td>
<td>8</td>
<td>N</td>
</tr>
<tr>
<td>Biology</td>
<td>4 BSC 114, BSC 115, BSC 116 &amp; BSC 117</td>
<td>8</td>
<td>N</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3 MATH 125</td>
<td>4</td>
<td>MA</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3 MATH 125 &amp; MATH 126</td>
<td>8</td>
<td>MA</td>
</tr>
<tr>
<td>Calculus BC-AB Subscore</td>
<td>3 MATH 125</td>
<td>4</td>
<td>MA</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3 CH 104</td>
<td>4</td>
<td>N</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4 CH 101</td>
<td>4</td>
<td>N</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5 CH 101 &amp; CH 102</td>
<td>8</td>
<td>N</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 CHI 101 &amp; CHI 102</td>
<td>8</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 CHI 101, CHI 102 &amp; CHI 201</td>
<td>11</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 CHI 101, CHI 102, CHI 201 &amp; CHI 202</td>
<td>14</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>4 CS 100</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Computer Science Principles (New Fall 2016)</td>
<td>3 CS 104</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>English Language &amp; Composition</td>
<td>3 EN 101</td>
<td>3</td>
<td>FC</td>
</tr>
<tr>
<td>English Language &amp; Composition</td>
<td>4 EN 101 &amp; EN 102</td>
<td>6</td>
<td>FC</td>
</tr>
<tr>
<td>English Literature &amp; Composition</td>
<td>3 EN 101</td>
<td>3</td>
<td>FC</td>
</tr>
<tr>
<td>English Literature &amp; Composition</td>
<td>4 EN 101 &amp; EN 102</td>
<td>6</td>
<td>FC</td>
</tr>
<tr>
<td>If both English AP tests are completed&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3 EN 101 &amp; EN 102</td>
<td>6</td>
<td>FC</td>
</tr>
<tr>
<td>If both English AP tests are completed&lt;sup&gt;3&lt;/sup&gt;</td>
<td>4 EN 101, EN 102 &amp; TRGS HU</td>
<td>9</td>
<td>FC</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3 GEO 105</td>
<td>4</td>
<td>N</td>
</tr>
<tr>
<td>European History</td>
<td>4 HY 101 &amp; HY 102</td>
<td>6</td>
<td>HI</td>
</tr>
<tr>
<td>French Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 FR 102</td>
<td>4</td>
<td>FL/HU</td>
</tr>
<tr>
<td>French Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 FR 102 &amp; FR 201</td>
<td>7</td>
<td>FL/HU</td>
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<tr>
<td>French Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 FR 102, FR 201 &amp; FR 202</td>
<td>10</td>
<td>FL/HU</td>
</tr>
<tr>
<td>German Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 GN 103</td>
<td>4</td>
<td>FL/HU</td>
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<tr>
<td>German Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 GN 103 &amp; GN 201</td>
<td>7</td>
<td>FL/HU</td>
</tr>
<tr>
<td>German Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 GN 103, GN 201 &amp; GN 202</td>
<td>10</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Government &amp; Politics: Comparative</td>
<td>3 PSC 203</td>
<td>3</td>
<td></td>
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<tr>
<td>Government &amp; Politics: U.S.</td>
<td>3 PSC 101</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3 GY 110</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Italian Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 IT 101 &amp; IT 102</td>
<td>8</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Italian Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 IT 101, IT 102 &amp; IT 201</td>
<td>11</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Italian Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 IT 101, IT 102, IT 201 &amp; IT 202</td>
<td>14</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 JA 101 &amp; JA 102</td>
<td>8</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 JA 101, JA 102 &amp; JA 201</td>
<td>11</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 JA 101, JA 102, JA 201 &amp; JA 202</td>
<td>14</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Latin&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 LA 101 &amp; LA 102</td>
<td>6</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Latin&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 LA 101, LA 102 &amp; LA 201</td>
<td>9</td>
<td>FL/HU</td>
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<tr>
<td>Latin&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 LA 101, LA 102, LA 201 &amp; LA 202</td>
<td>12</td>
<td>FL/HU</td>
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<tr>
<td>Macroeconomics</td>
<td>3 EC 111</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3 EC 110</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Music Theory</td>
<td>3 TRGS HU</td>
<td>3</td>
<td>HU</td>
</tr>
<tr>
<td>Physics 1 (New Fall 2014)</td>
<td>3 PH 101</td>
<td>4</td>
<td>N</td>
</tr>
<tr>
<td>Physics 2 (New Fall 2014)</td>
<td>3 PH 102</td>
<td>4</td>
<td>N</td>
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<tr>
<td>Physics B</td>
<td>3 PH 101 &amp; PH 102</td>
<td>8</td>
<td>N</td>
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<tr>
<td>Physics C: Mechanics</td>
<td>3 PH 105</td>
<td>4</td>
<td>N</td>
</tr>
<tr>
<td>Physics C: Electricity and Magnetism</td>
<td>3 PH 106</td>
<td>4</td>
<td>N</td>
</tr>
<tr>
<td>Psychology</td>
<td>3 PY 101</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 SP 103</td>
<td>4</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 SP 103 &amp; SP 201</td>
<td>7</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5 SP 103, SP 201 &amp; SP 202</td>
<td>10</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Spanish Literature &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 SP 103</td>
<td>4</td>
<td>FL/HU</td>
</tr>
<tr>
<td>Spanish Literature &amp; Culture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 SP 103 &amp; SP 201</td>
<td>7</td>
<td>FL/HU</td>
</tr>
</tbody>
</table>
College-Level Examination Program (CLEP)

### CLEP Subject Examination

<table>
<thead>
<tr>
<th>CLEP Subject Examination</th>
<th>Min. Score</th>
<th>UA Course Equivalent</th>
<th>Credit</th>
<th>Core Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>History and Social Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History of the United States I: Early Colonization to 1877</td>
<td>52</td>
<td>HY 103</td>
<td>3</td>
<td>HI</td>
</tr>
<tr>
<td>History of the United States II: 1865 to the Present</td>
<td>52</td>
<td>HY 104</td>
<td>3</td>
<td>HI</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>52</td>
<td>HD 101</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50</td>
<td>EC 111</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50</td>
<td>EC 110</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>54</td>
<td>PY 101</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>52</td>
<td>SOC 101</td>
<td>3</td>
<td>SB</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>52</td>
<td>HY 101</td>
<td>3</td>
<td>HI</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>52</td>
<td>HY 102</td>
<td>3</td>
<td>HI</td>
</tr>
<tr>
<td>Arabic (SL &amp; HL)</td>
<td>4</td>
<td>ARB 101</td>
<td>4</td>
<td>FL</td>
</tr>
<tr>
<td>Arabic (SL &amp; HL)</td>
<td>5</td>
<td>ARB 101 &amp; ARB 102</td>
<td>8</td>
<td>FL</td>
</tr>
<tr>
<td>Arabic (SL &amp; HL)</td>
<td>6</td>
<td>ARB 101, ARB 102, &amp; ARB 201</td>
<td>11</td>
<td>FL</td>
</tr>
<tr>
<td>Arabic (SL &amp; HL)</td>
<td>7</td>
<td>ARB 101, ARB 102, &amp; ARB 201</td>
<td>14</td>
<td>FL</td>
</tr>
<tr>
<td>Chinese (SL &amp; HL)</td>
<td>4</td>
<td>CHI 101</td>
<td>4</td>
<td>FL/HU</td>
</tr>
<tr>
<td>French, Level 1 and Level 2</td>
<td>Score of 50–55</td>
<td>FR 101 &amp; FR 102</td>
<td>8</td>
<td>FL/HU</td>
</tr>
<tr>
<td>French, Level 1 and Level 2</td>
<td>Score of 56–61</td>
<td>FR 201</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>French, Level 1 and Level 2</td>
<td>Score of 62–80</td>
<td>FR 202</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>German, Level 1 and Level 2</td>
<td>Score of 50–55</td>
<td>GN 101 &amp; GN 102</td>
<td>8</td>
<td>FL/HU</td>
</tr>
<tr>
<td>German, Level 1 and Level 2</td>
<td>Score of 56–62</td>
<td>GN 201</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>German, Level 1 and Level 2</td>
<td>Score of 63–80</td>
<td>GN 202</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

### Spanish, Level 1 and Level 2

- Score of 48–51: SP 101 & SP 102 (8 credits, FL/HU)
- Score of 52–55: SP 201 (11 credits)
- Score of 56–80: SP 202 (14 credits)

### Science and Mathematics

- Biology (non-majors) | 50 | BSC 108 | 4 | N |
- Biology (non-majors) | 57 | BSC 108 & BSC 109 | 8 | N |
- Biology | 60 | BSC 114, BSC 115, BSC 116 & BSC 117 | 8 | N |
- Chemistry | 52 | CH 101 & CH 102 | 8 | N |
- Calculus with Elementary Functions | 52 | MATH 125 | 4 | MA |
- Business | 50 | LGS 200 | 3 |                  |
- Information Systems and Computer Applications | 50 | CS 102 | 3 |                  |
- Introductory | 50 | EN 101 & EN 102 | 6 | FC |
- Business Law | 50 | EN 101 & EN 102 | 6 | FC |

1. FR 101 Elementary French I/FR 102 Elementary French II, GN 101 Elementary German I/GN 102 Elementary German II, and SP 101 Introductory Spanish I/SP 102 Introductory Spanish II must be considered units. No credit is given for FR 101 Elementary French I, GN 101 Elementary German I, or SP 101 Introductory Spanish I alone, or for scores less than those listed above.

International Baccalaureate (IB)

### Examination

<table>
<thead>
<tr>
<th>Examination</th>
<th>Minimum/UA Course Equivalent</th>
<th>Credit</th>
<th>Core Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language A: Literature (SL &amp; HL)</td>
<td>4</td>
<td>EN 101</td>
<td>3</td>
</tr>
<tr>
<td>Language A: Literature (SL &amp; HL)</td>
<td>5</td>
<td>EN 101 &amp; EN 102</td>
<td>6</td>
</tr>
<tr>
<td>Language A: Language &amp; Literature (SL &amp; HL)</td>
<td>4</td>
<td>EN 101</td>
<td>3</td>
</tr>
<tr>
<td>Language A: Language &amp; Literature (SL &amp; HL)</td>
<td>5</td>
<td>EN 101 &amp; EN 102</td>
<td>6</td>
</tr>
<tr>
<td>If both IB Language A tests are completed</td>
<td>5 on both</td>
<td>EN 101, EN 102, and 3 hours of TRGS HU</td>
<td>9</td>
</tr>
</tbody>
</table>

### GROUP 2: LANGUAGE B COURSES

| Arabic (SL & HL) | 4 | ARB 101 | 4 | FL |
| Arabic (SL & HL) | 5 | ARB 101 & ARB 102 | 8 | FL |
| Arabic (SL & HL) | 6 | ARB 101, ARB 102, & ARB 201 | 11 | FL |
| Arabic (SL & HL) | 7 | ARB 101, ARB 102, & ARB 201 | 14 | FL |
| Chinese (SL & HL) | 4 | CHI 101 | 4 | FL/HU |

1. Score of 50–55: SP 101 & SP 102
2. Score of 52–55: SP 201
### Advanced and Advanced Subsidiary Level Exams

Credit will be awarded as outlined for examinations completed through an A/AS Level Examination Board.

1. Decision based on review of portfolio by Department of Art and Art History
2. Students scoring a 5 or better on both the Language A: Literature and Language A: Language & Literature exam will receive credit for EN 101 English Composition, EN 102 English Composition, and/or TRGS HU.
<table>
<thead>
<tr>
<th>Exam Subject</th>
<th>Grade</th>
<th>UA Course Equivalent</th>
<th>Credit</th>
<th>Core Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting (AS-Level)</td>
<td>A - E</td>
<td>AC 197</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Accounting (A-Level)</td>
<td>A - E</td>
<td>AC 197</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>
| Art and Design (AS-Level)        | A - E | ART 110, ART 130, ART 131, and/or ART 197 | 3  
| Art and Design (A-Level)         | A - E | ART 110, ART 130, ART 131, and/or ART 197 | 3-6  |
| Biology (AS-Level)               | A - E | BSC 108              | 4      | N                |
| Biology (A-Level)                | A - E | BSC 114, BSC 115, BSC 116 & BSC 117 | 8      | N                |
| Business Studies (AS-Level)      | A - E | GBA 197              | 3      |                  |
| Business Studies (A-Level)       | A - E | GBA 197              | 6      |                  |
| Chemistry (AS-Level)             | A - E | CH 197               | 4      |                  |
| Chemistry (A-Level)              | A - E | CH 101 & CH 197      | 8      | N                |
| Classical Studies (AS-Level)     | A - E | CL 197               | 3      |                  |
| Computing (AS-Level)             | A - E | CS 197               | 3      |                  |
| Computing (A-Level)              | A - E | CS 197               | 6      |                  |
| Design and Technology (AS-Level) | A - E | CTD 197              | 3      |                  |
| Design and Technology (A-Level)  | A - E | CTD 197              | 6      |                  |
| Economics (AS-Level)             | A - E | EC 197               | 3      |                  |
| Economics (A-Level)              | A - E | EC 110 & EC 111      | 6      | SB               |
| English Language (AS-Level)      | A - E | EN 101               | 3      | FC               |
| Environmental Management (AS-Level) | A - E | GY 197               | 3      |                  |
| French Language (AS-Level)       | A - E | FR 101               | 4      | FL               |
| French Language (A-Level)        | A - E | FR 101 & FR 102      | 8      | FL               |
| French Literature (AS-Level)     | A - E | FR 197               | 3      |                  |
| Further Mathematics (A-Level)    | A - E | MATH 125 & MATH 126  | 8      | M                |
| General Paper (AS-Level)         | A - E | NEW 197              | 3      |                  |
| Geography (AS-Level)             | A - E | GY 105               | 3      | SB               |
| Geography (A-Level)              | A - E | GY 102 & GY 197      | 7      | N                |
| German Language (AS-Level)       | A - E | GN 101               | 4      | FL               |
| German Language (A-Level)        | A - E | GN 101 & GN 102      | 8      | FL               |
| History (AS-Level)               | A - E | HY 197               | 3      |                  |
| History (A-Level)                | A - E | HY 197               | 6      |                  |
| Language and Literature in English (AS-Level) | A - E | EN 101              | 3      | FC               |
| Latin (AS-Level)                 | A - E | LA 101               | 3      | FL               |
| Literature in English (A-Level)  | A - E | EN 101               | 3      | FC               |
| Literature in English (AS-Level) | A - E | EN 101 & EN 102      | 6      | FC               |
| Marine Science (AS-Level)        | A - E | BSC 197              | 3      |                  |
| Marine Science (A-Level)         | A - E | BSC 197              | 6      |                  |
| Mathematics (AS-Level)           | A - E | MATH 115             | 3      | M                |
| Mathematics (A-Level)            | A - E | MATH 125 & MATH 197  | 7      | M                |
| Music (AS-Level)                 | A - E | MUS 197              | 3      |                  |
| Music (A-Level)                  | A - E | MUS 121 & MUS 197    | 6      | FA               |
| Physics (AS-Level)               | A - E | PH 197               | 4      |                  |
| Physics (A-Level)                | A - E | PH 101 & PH 102      | 8      | N                |
| Psychology (AS-Level)            | A - E | PY 101               | 3      | SB               |
| Psychology (A-Level)             | A - E | PY 101 & PY 197      | 6      | SB               |
| Sociology (AS-Level)             | A - E | SOC 101              | 3      | SB               |
| Sociology (A-Level)              | A - E | SOC 101 & SOC 197    | 6      | SB               |
| Spanish Language (AS-Level)      | A - E | SP 101               | 4      | FL               |
| Spanish Language (A-Level)       | A - E | SP 101 & SP 102      | 8      | FL               |
| Spanish Literature (AS-Level)    | A - E | SP 197               | 3      |                  |
| Thinking Skills (AS-Level)       | A - E | PHL 197              | 3      |                  |
| Thinking Skills (A-Level)        | A - E | PHL 197              | 3      |                  |

1 Decision based on review of portfolio by Department of Art and Art History

**Student-Athlete Satisfactory Progress**

A student-athlete who has completed at least one academic year in residence at The University of Alabama shall be required to satisfy minimum academic progress requirements for continuing athletic eligibility. In addition to the stated academic requirements for continued enrollment at The University of Alabama, a student-athlete must satisfy the academic progress requirements of the Southeastern Conference and of the National Collegiate Athletic Association in order to remain eligible for athletics-related financial aid and for practice and participation in varsity sports. A student-athlete should visit Alabama Athletics Compliance for more information.

**Transfer Credit**

The University of Alabama accepts transfer work from postsecondary institutions that are fully accredited by regional accrediting agencies.
Incoming transfer coursework will be evaluated against the current University of Alabama catalog at the time the transcript is received. A University of Alabama equivalent course, discipline-specific elective, or general elective will be assigned based on comparability of the course content.

**General Transfer Credit Policy**

**Accreditation**

1. Collegiate work will be considered for transfer credit from postsecondary institutions that offer the baccalaureate degree or associate's degree leading to the baccalaureate degree and are fully accredited by one of the six regional accrediting associations below. Institutions that have been granted official candidacy status by a regional accrediting association will be accorded conditional acceptance for the coursework until full accreditation is granted.
   - Middle States Commission on Higher Education
   - Higher Learning Commission
   - New England Association of Schools and Colleges, Commission on Institutions of Higher Education
   - Northwest Commission on Colleges and Universities
   - Southern Association of Colleges and Universities
   - Western Association of Schools and Colleges
2. Collegiate work from postsecondary institutions not fully accredited by regional accrediting associations will be considered for transfer credit only when approval is recommended by the dean of the student’s college of enrollment. Approval must be sought by the student via written petition to the dean.
   - If the work is approved for transfer, the credit will be accepted on a provisional basis.
   - Provisional credit will be applied as appropriate to the student’s degree if an average of “C” or higher is earned for a year of academic work as a full-time student.
   - In the case of the part-time student, a “C” average or higher must be earned for work completed from the time of initial enrollment through the semester (summer included) in which a total of at least 24 semester hours of work is completed at The University of Alabama.
   - A student who transfers within The University of Alabama will have provisional credit applied as appropriate to the curriculum of the college into which the student transfers.
3. Collegiate work will be considered for transfer credit for courses completed at colleges and universities outside of the United States which are accredited or approved by the Ministry of Education (or other appropriate governmental agency) of the country in which they are located. Students seeking transfer credit from international institutions are required to submit a course-by-course evaluation completed by a National Association of Credential Evaluation Services (NACES) accredited organization. A list of current NACES member organizations can be found at http://www.naces.org/members.html.

**Transferability, Equivalency, and Applicability**

1. Transferability refers to the conditions under which the University accepts credit from other postsecondary institutions for inclusion in the student’s record. The Office of the University Registrar (OUR) is responsible for determining transferability.
2. Equivalency entails equating transfer credit, both in hours and content, to University of Alabama coursework. Lower-level equivalencies will be determined by transfer credit evaluators in OUR. Upper-level equivalencies will be determined by the college/school which houses the discipline.
3. Applicability of credit toward a degree refers to the prerogative of the academic divisions to count specific credit toward the fulfillment of a student’s degree requirements. The student’s college of enrollment is responsible for determining applicability.

**Governing Policies**

1. Transfer credit is generally awarded for academic credit earned at regionally accredited institutions or from institutions that are candidates for regional accreditation if the course credit was earned during the candidacy period.
2. The evaluation and award of transfer credit will be based on official transcripts. To be eligible for evaluation, coursework must appear on an official transcript from the institution that offered the coursework and initially conferred the credit in question.
3. The University of Alabama follows a semester calendar and awards credits earned in semester hours. Earned hours assigned to coursework completed at institutions on non-semester-based academic calendars will be converted and reported on The University of Alabama transcript as semester hours.
4. Credit granted by another institution for non-traditional experiences will not be accepted based on that institution’s transcript. To receive credit for non-traditional experiences (e.g. College Level Examination Program [CLEP], Advanced Placement [AP], International Baccalaureate [IB], General Certificate of Education [GCE] Advanced and Advanced Subsidiary Level Exams, military training, etc.), the student must present official documentation from the original provider of the non-traditional experience.
5. The following types of credit are not transferable and will not count toward a degree:
   - placement credit granted by another institution
   - remedial or developmental courses
   - technical courses
   - occupational, vocational, and some workforce courses from two-year institutions
   - courses classified as below freshman level by the originating institution
   - courses in religion that are doctrinal, confessional, or sectarian in nature
   - courses applying to a previously earned baccalaureate degree
6. Courses from two-year institutions transfer as lower-division (100- and 200-level courses) credit only. Undergraduate courses from four-year baccalaureate degree-granting institutions transfer at the same level, lower- or upper-division, as they were taken. Graduate level coursework may be transferred as undergraduate credit at the written request of the student and upon approval by the appropriate academic department.
7. Class standing is based on cumulative credit hours earned, not degrees. Students transferring to The University of Alabama with an associate’s degree will not automatically be granted junior standing.
8. In those instances when a student has repeated a course, all occurrences of the course, including grade, will be posted to The University of Alabama transcript. All grades count in the overall GPA, but earned hours will be awarded based on The University of Alabama repeat policy for the equivalent course. This policy can be found on the Grade and Grade Points page under “Repeat Course Policy.”
9. Courses in which a grade of "F" was earned are not applicable and will not count toward a degree. However, the course, hours, and grade are placed on The University of Alabama transcript and calculated in the overall GPA.

10. Courses for which a student has been awarded academic clemency, bankruptcy, forgiveness, etc. by the institution at which the courses were completed will not be posted to The University of Alabama transcript.

11. Students are required to submit official transcripts for all postsecondary institutions attended. All transferable work will be posted to The University of Alabama transcript. Students do not retain the right to pick or choose certain courses for transfer.

**Evaluation and Application of Transfer Credit**

**Core Curriculum/General Education**

Transfer courses that are determined not to have a direct University of Alabama equivalent but deemed worthy of core credit will be noted on the student’s transcript as follows:

- TRGS FC - Transfer Gen Stdy Fresh Comp
- TRGS FL - Transfer Gen Stdy Foreign Lang
- TRGS HU - Transfer Gen Stdy Humanities
- TRGS L - Transfer Gen Stdy Literature
- TRGS HI - Transfer Gen Stdy History
- TRGS SB - Transfer Gen Stdy Soc Behv Sci
- TRGS FA - Transfer Gen Stdy Fine Arts
- TRGS N - Transfer Gen Stdy Nat Sci
- TRGS MA - Transfer Gen Stdy Math
- TRGS C - Transfer Gen Stdy Comp Sci

The student’s college of enrollment will have to grant an exception or substitution if the course should be applied to the major and/or minor.

**Elective Credit**

Course numbers 197 and 397 indicate lower-level and upper-level elective credit, respectively. If, upon evaluation, a course is determined to have no direct University of Alabama equivalent but does fall under a discipline taught at The University of Alabama, the course will be awarded 197 or 397 credit in conjunction with the appropriate discipline prefix. The discipline prefix with the 197 or 397 course number indicates that the course is suitable for elective credit in that discipline.

If, upon evaluation, a course is determined to have no direct University of Alabama equivalent and does not fall under a discipline taught at The University of Alabama, the course will be awarded 197 or 397 credit in conjunction with a general elective credit (GEC) prefix.

Some colleges or degree programs may not allow 197 or 397 elective credit to complete degree requirements. Students should contact their college of enrollment for details.

**Applicability of Credit**

Transfer credit will be applied as appropriate to a student’s degree program. The authority to apply transfer credit toward degree requirements rests with the student’s college of enrollment.

Transferring between colleges within The University of Alabama will not affect the equivalencies established for a student’s transfer work, but may affect the applicability of the credit towards the new degree program.

Transferable courses with a grade of "D-" or above may apply to degree requirements unless a grade of "C-" is specifically required.

A minimum of a "C-" must be earned in English composition and introductory math courses to be applicable towards completion of degree requirements. Courses requiring a "C-" or better are: EN 101 English Composition, EN 102 English Composition, MATH 100 Intermediate Algebra, MATH 110 Finite Mathematics, MATH 112 Precalculus Algebra, MATH 113 Precalculus Trigonometry and MATH 115 Precalc Algebra & Trig. If a grade below a "C-" was earned in one of the aforementioned English composition or introductory math courses, the course will still be included on the student’s transcript and included in the calculation of the student’s higher education GPA.

A minimum of 50 percent of the coursework required to earn a baccalaureate degree at The University of Alabama must be earned at a baccalaureate degree-granting institution, and a minimum of 25 percent of the coursework required for the degree must be earned at The University of Alabama. Students should contact their college of enrollment for the specific number of hours required for their degree.

The policies and procedures for determining GPA and applying transfer credit are discussed in each college’s section of The University of Alabama Undergraduate Catalog.

**Evaluation of Credit from Non-Traditional Sources**

**Credit by Examination**

Credit by examination and credit for several types of out-of-class experiences are recognized by The University of Alabama. Credits can be earned through satisfactory completion of one of the standardized national exams including, but not limited to, the Advanced Placement (AP) (p. 626) program, the International Baccalaureate (IB) (p. 626) program, General Certificate of Education (GCE) Advanced and Advanced Subsidiary Level Exams (p. 626) and the College Level Examination Program (CLEP) (p. 626).

Credit hours earned by examination and/or out-of-class experiences are not considered UA institutional coursework, and therefore, may not be applied toward fulfillment of:

- The minimum of 50 percent of the coursework required to earn a bachelor’s degree at The University of Alabama that must be earned at a baccalaureate degree-granting institution (four-year college or university), and
- The minimum of 25 percent of the coursework required for the degree that must be earned at The University of Alabama.

**Study Abroad**

All University of Alabama students planning to do research, internships, or academic credit programs abroad will apply for study abroad through the Education Abroad office. Once admitted to a program, students are required to submit each planned course for approval through the online International Credit Approval for Study Abroad application. Each course will be evaluated and a University of Alabama equivalency will be determined and provided to the student. In the event a student changes courses while abroad, a new request for evaluation should be submitted. Any courses not pre-approved will be evaluated at the time a transcript is received and are not guaranteed to be accepted for credit by The University of Alabama.

When a transcript is received with work from a UA-affiliated study abroad program on an international transcript, the credit will be posted with pass/fail grades. A grade of "P" does not affect the GPA; however, a grade
of "F" is computed in the GPA. When a transcript is received with study abroad work that appears on a domestic transcript from an accredited and affiliated U.S. institution, it will be treated as standard transfer credit. The grade received on the domestic institution’s transcript will be posted to the student’s University of Alabama transcript and calculated into the overall GPA.

Courses taken through study abroad programs often cover content from a focused area of study related to the culture, history, and perspective of the country in which the experience takes place. For that reason, many study abroad courses will not have a direct UA equivalency. The authority to apply the credit awarded from study abroad toward degree requirements rests with the student’s college of enrollment.

Military Service
The American Council on Education (ACE) recognizes the educational value of military training and experience. ACE continuously evaluates military school courses and occupations and makes recommendations for college-level credit. ACE credit recommendations are present on the Joint Services Transcript (JST) of the military service member. The University of Alabama accepts military service records and will award credit for ACE recommendations in the associate and baccalaureate categories at both the lower and upper level. Recommendations for credit at the vocational level are not acceptable for credit at The University of Alabama. The University of Alabama does not award credit for military occupations or for courses with ACE recommendations that are considered technical in nature. While ACE recommendations that meet the aforementioned criteria will be considered for credit during the evaluation of the JST, they are not binding to the University. Duplicate credit recommendations will not be allowed. In most cases, credits will be awarded as elective credit.

Each service member will receive at least 4 hours of military science elective credit for military experience documented on the JST. Any additional credit awarded may be comprised of direct University of Alabama equivalencies, discipline-specific electives, physical education electives, or general electives after evaluation by The University of Alabama. A maximum of 6 semester hours of physical education credits and 6 semester hours of general elective credits will be awarded for educational experience in the military. Discipline-specific electives will only be considered for ACE recommendations of 2 or more semester hours. Military courses in which ACE has provided optional credit recommendations will be reviewed on a case-by-case basis to determine the appropriate credit. Military courses that have received an upper-level credit recommendation from ACE will receive elective credit only.

The authority to apply the credit awarded from military experience toward degree requirements rests with the student’s college of enrollment.

Other Non-Traditional Sources
Credit from other non-traditional sources including, but not limited to, independent study, workshops, field experiences, or internships will be considered for credit if documented on an official transcript from a regionally accredited institution.

Appeal Process
If a student disagrees with a transfer credit evaluation, the student must submit further information about the course in question in order to initiate an appeal of the evaluation. Supporting documentation can include, but is not limited to, a course outline, syllabus, or textbook. If a student disagrees with an evaluation of credit from a non-traditional source, the student must submit further written information about the training including number of hours of the training, information about the training source, accreditation, etc., in order to initiate an appeal of the evaluation.

The Office of the University Registrar, in coordination with the academic discipline, will consider amending the original evaluation if, after review of supporting documentation, a change is warranted.

Transfers Within the University
A student registered in an undergraduate division of The University of Alabama who has earned fewer than 45 semester hours may transfer to another undergraduate division. A student who has earned 45 or more semester hours may transfer to another undergraduate division according to the rules established by the division to which he or she is applying. Credit will be given for courses in which a passing grade has been earned, provided the courses transferred are appropriate to the new curriculum. Credits accepted for graduation are determined by the academic division into which the transfer is made. Check the DegreeWorks audit at myBama.ua.edu to determine how credit is being applied in the new program of study.

Changes in the student’s major(s) and minor(s) must be registered with the new academic division immediately following the transfer. Transfers between academic divisions will not be permitted once the registration process has been completed for a given term. At the discretion of the school or college concerned, a student may, upon entering another division of the University, petition to discard all credit previously earned. This recourse is limited to students who have attempted no more than 20 semester credit hours.

Withdrawal
A student may withdraw from or drop an individual course until the end of the tenth week of a fall or spring semester, the second week of Interim session, the third week of a five-week summer session, or the fourth week of a 10-week session. After this period, students are expected to maintain their course loads.

A student contemplating withdrawal from a course is strongly encouraged to contact his or her academic advisor before changing the schedule, as changes can result in delayed graduation. Also, dropping below full-time status may impact insurance (health and auto), financial aid, and scholarships. (Full-time status is 12 credit hours for undergraduate students, 9 credit hours for graduate students, and 10 credit hours for law students.)

A student may not withdraw from or drop individual courses in which penalty grades were assigned as a result of academic misconduct.

No permanent notation is made of a course that is dropped during the change-of-schedule period. A course dropped from the end of the change-of-schedule period to the end of the 10th week of a fall or spring semester, the end of the second week of Interim session, the end of the third week of a five-week summer session, or the end of the fourth week of a 10-week summer session is indicated on the student's permanent academic transcript with a grade of "W."

Important Note #1: Dropping an Interim session course does not result in a withdrawal from the University if the student is enrolled in a course or courses in any other summer session.

Important Note #2: After the Last Day to Drop with a W, a student must petition the college office for approval to withdraw or drop "for reasons beyond the student’s control." The presumption is that the student CANNOT withdraw without "extenuating circumstances," which must be documented. Specifically, the student cannot drop because he or she
isn't doing well in the class. Depending upon the term, the student had up to 10 weeks to make this judgment call. This note also applies to any retroactive withdrawal or drop.

Withdrawal from a Semester

A student may withdraw from a semester through the last day of classes (excluding final exam periods) in the fall, spring, and summer semesters following clearance by the Office of the University Registrar. A withdrawal from the semester occurs during summer term only if the student withdraws from all parts of the term. A semester withdrawal will not be processed if the student is enrolled in a part of a term that has concluded.

No notation of courses attempted is made on the permanent record of a student who withdraws from the semester during the change of schedule period (when a course can still be added). After the change of schedule period, a grade of "W" (withdrawn) is assigned for all courses in which the student was enrolled.

The withdrawal process is initiated online through the student's myBama account. The "Tuition and Other Expenses" (p. 912) section of this catalog provides information regarding the effects of withdrawal upon tuition and fee payments and financial aid.

Withdrawal When Called to Active Military Duty

For purposes of this section, active military duty means service, whether voluntary or involuntary, in the Armed Forces, including service by a member of the National Guard or Reserve, on active duty, active duty for training, or full-time National Guard duty under Federal authority, for a period of more than 30 consecutive days under a call or order to active duty of more than 30 consecutive days. A student who has been admitted to or who has been enrolled at The University of Alabama may request a withdrawal to fulfill a U.S. military obligation. The student should notify the Office of the University Registrar and provide documentation of his or her call to service, and submit notification whether or not the student intends to return to the University. Graduate students should also provide documentation to the Graduate School dean. Withdrawal is not contingent on the student's notification of intent to return to the University. The intent to return is used as information for future communication with the student.

A student returning from active military duty may be readmitted per the readmission provisions in the Higher Education Opportunity Act of 2008 (Section 484C of the HEA) and implementing regulations in 34 CFR Section 668.18. A student can be promptly readmitted, providing he or she withdrew to fulfill a U.S. military obligation, was not dishonorably discharged from the uniformed services, and the cumulative length of absence and of all previous absences from undergraduate studies due to military service did not exceed five years.

When a student is called to active military duty during an academic term, he or she may choose one of the following three options:

1. The student may request retroactive withdrawal to the beginning of the semester, with a full refund of tuition and fees.
2. If at least 75 percent of the term has been completed, the student may request that the faculty member assign a grade for the course based on the work completed. The final decision about grading is left to the faculty member.
3. If the faculty member assigns a grade of "I", the student will have a minimum of two weeks after returning to campus to complete the course requirement. Additional time may be granted if alternative arrangements are made with the faculty member, and provided the alternative arrangement is in compliance with Alabama CodeS3 31-12-3. This requires individuals be restored to the educational status he or she had prior to military duty, without the loss of academic credits earned, scholarships or grants awarded, or tuition and other fees paid prior to the commencement of military duty.

Spouses of service members called to active duty

A student who is the spouse of a service member called to active duty qualifies for the same withdrawal options that apply to service members. The student should notify the Office of the University Registrar and provide documentation of the call to service, and submit notification whether or not he or she intends to return to the University. Graduate students should also provide documentation to the Graduate School dean. Withdrawal is not contingent on the student's notification of intent to return to the University. The intent to return is used as information for future communication with the student.

Medical Withdrawal and Return to Campus

Policy

The Medical Withdrawal and Return to Campus policy of The University of Alabama establishes procedures to follow when a student suffers from a physical, emotional, or psychological condition that significantly impairs the student's ability to function successfully or safely as a student. The policy is primarily administered by the University's Student Health Center (SHC) according to the procedures described below.

Eligibility

Medical Withdrawals are voluntary. Eligibility for Medical Withdrawal is limited to students who have not taken a final exam or otherwise completed coursework for a final grade. The SHC shall request documentation from the dean of the division in which the student is enrolled to verify that the student either took no final exam(s) or otherwise completed coursework for a final grade for the semester/term in question; in addition, students are expected to affirm these conditions at the time of the request. Falsely attesting to the eligibility on the Student Request for Medical Withdrawal form is a violation of the Code of Student Conduct and may result in the revocation of a Medical Withdrawal and/or referral to the Office of Student Conduct.

Academic Impact

Medical Withdrawal, when approved, withdraws a student from all courses for a given semester/term. Students are not allowed to medically withdraw from individual courses. The only exception to this policy occurs when parts of a term within a semester have unique start and end dates. For example the summer semester at UA includes four separate parts (Interim Term, Summer I, Summer II, and full Summer Term). It would be possible, if approved, for a student to complete coursework in Summer I and to medically withdraw from Summer II. In this example, the student would not be medically withdrawn from the entire summer semester, but rather only from all courses for the Summer II.

Procedures

After appropriate SHC personnel have deemed a Medical Withdrawal request eligible for consideration, a designated SHC physician handles all Medical Withdrawal decisions on behalf of the University. The designated SHC physician, on behalf of the University and, where appropriate, in consultation with relevant University personnel, will conduct an
individualized assessment of the student’s situation before deciding to approve or deny the request and determining the effective date of the withdrawal. The effective date will be determined based on the circumstances associated with the student’s participation at UA and the medically related documentation. The designated physician’s decisions regarding Medical Withdrawal are final with no appeal rights. If approved, the SHC will notify the student and the Office of the University Registrar. Upon notification by the SHC, the University Registrar shall process the withdrawal and notify the student. If the request is denied, the SHC shall notify the student.

Medical Withdrawal Documentation

1. A student must fully and accurately complete the Student Request for Medical Withdrawal form (available at www.shc.ua.edu) and send the completed form by fax (205-348-7174), email (medwithdrawal@ua.edu) or if there is time by mail to The Student Health Center, Medical Withdrawal, 750 Peter Bryce Boulevard, Tuscaloosa, AL 35401.

2. A student must have a licensed medical provider (physician, nurse practitioner, or mental health professional) submit a completed Licensed Provider Recommendation for Medical Withdrawal form (available at www.shc.ua.edu) by fax (205-348-7174), email (medwithdrawal@ua.edu) or if there is time by mail to The Student Health Center, Medical Withdrawal, 750 Peter Bryce Boulevard, Tuscaloosa, AL 35401. The licensed medical provider shall be the one who is currently treating the student for the condition(s) prompting the withdrawal request and is responsible for obtaining permission from the student to provide the documentation and to discuss the medical conditions, if needed, with the appropriate University personnel. If the University, in its sole discretion, determines that an extraordinary or emergency situation exists, alternative documentation may be requested and considered.

3. A student may also attach to the student request form any further supportive documentation from faculty teaching the student’s currently enrolled courses, or if to support a retroactive withdrawal, from faculty who taught the student for the semester/term for which the withdrawal is requested.

4. In the event that the student’s medical condition so incapacitates the student that the student cannot act on his or her own behalf, the student’s parent or legal guardian should contact the Student Health Center at 205-348-7164 for further guidance.

Types of Medical Withdrawals

1. Regular Medical Withdrawal, within the current semester/term. A timely regular Medical Withdrawal request must be made before the close of business on the last day of classes of the semester in question. A timely withdrawal for the current semester requires a Student Request for Medical Withdrawal form submitted by the student and the Licensed Provider Recommendation for Medical Withdrawal form submitted by a licensed practitioner (forms available at www.shc.ua.edu). The student is encouraged to begin the medical withdrawal request process as soon as it becomes evident that a physical, emotional, or psychological condition significantly impairs the ability to function successfully or safely as a student. The designated SHC physician shall determine the effective date for the medical withdrawal based on the circumstances associated with the student’s participation at UA and medically related documentation. An approved Regular Medical Withdrawal requires the submission of the Licensed Provider Return to Campus (Medical Clearance) form as described below in the section Return to the University Following Medical Withdrawal as well as its approval by the SHC-designated physician.

2. Retroactive Medical Withdrawal. A timely withdrawal for a previous semester must be made within sixty (60) calendar days of the last day of classes for the semester/term for which the withdrawal is requested. The student must submit the Student Request for Medical Withdrawal form and the Licensed Provider Recommendation for Medical Withdrawal form (forms available at www.shc.ua.edu). For all approved Retroactive Medical Withdrawals, the effective date shall be the last day of classes for the semester/term in question. Also, if a student is seeking a retroactive medical withdrawal and is currently enrolled or intending to be enrolled or registered for an upcoming semester or term, then the student must also submit with the Licensed Provider Recommendation for Medical Withdrawal form a Licensed Provider Return to Campus (Medical Clearance) form. Failure to submit the Return to Campus form at the same time as the request for retroactive withdrawal will prevent the student’s request for retroactive medical withdrawal from being considered. Further, if such a student’s medical withdrawal is granted, but the submitted return to campus materials are insufficient to allow a return, the student will have the option to (1) retract the request for a retroactive Medical Withdrawal and remain registered/enrolled or (2) take a Medical Withdrawal for the previous and current semester or term in which they are enrolled. If the student selects the latter option, the student will still have to submit and have approved additional Return to Campus paperwork before being eligible to seek re-enrollment.

Medical Withdrawal Requests submitted outside of the semester in question, and beyond the required sixty (60) day deadline, must have clear, convincing, and extraordinary circumstances in order for the request to be considered. Extensive documentation (such as extended hospitalization and rehabilitation progression not met, etc.) must be submitted to the SHC and must be related to the reasons for the medical withdrawal and to the circumstances that prevented a timely request.

Handling of a Medical Withdrawal

Once a Medical Withdrawal has been approved, the withdrawal will proceed under these guidelines:

1. The Office of the University Registrar assigns a grade of “W” on the official transcript for effective dates that fall after the add/drop period for the semester.

2. All grades from the transcript, for the term in question, are completely removed when the Medical Withdrawal effective date falls within the add/ drop period for the semester.

3. The impact of an approved non-medical semester withdrawal (administrative withdrawal) for the same semester is addressed in the following way:

   1. If an approved non-medical withdrawal from an academic division predates the approved Medical Withdrawal effective date, the earlier date will be applied by the Office of the University Registrar.

   2. If the approved Medical Withdrawal effective date pre-dates an approved non-medical withdrawal, again, the earlier date will be applied by the Office of the University Registrar.

Return to the University Following Medical Withdrawal

When the Medical Withdrawal is approved, an SHC representative shall place a medical clearance hold on the student’s record. A medical clearance hold will remain in place until the appropriate medical documentation is received and a designated SHC physician approves release of the hold. If the hold is not removed by approximately one week prior to the start of classes for the term in question, all of the student’s
classes will be dropped for that term, regardless of whether or not an appeal is in process.

A student seeking to return following a Medical Withdrawal must provide appropriate medical documentation from a licensed physician, nurse practitioner, or mental health professional who is knowledgeable of the student’s full health history and has treated the student since the effective date of Medical Withdrawal. This medical documentation must indicate that it is appropriate and safe for the student to resume classes at the beginning of a specified semester/term. A completed Licensed Provider Recommendation for Return to Campus (Medical Clearance) form (available at www.shc.ua.edu) must be submitted to the Student Health Center, by fax (205-348-7174), email (medwithdrawal@ua.edu (medwithdraw@ua.edu)), or if time allows by mail to Student Health Center, Medical Withdrawal, 750 Peter Bryce Boulevard, Tuscaloosa, AL 35401.

Upon receipt of the required Licensed Provider Recommendation for Return to Campus (Medical Clearance) form and other appropriate medical documentation, a designated SHC physician, on behalf of the University and, where appropriate, in consultation with relevant University personnel, will conduct an individualized assessment of the returning student’s situation. The assessment will include reviewing materials submitted by the student or on the student’s behalf. During the process of reviewing a student’s request to return, if at the discretion of the SHC physician, a determination is made that the information provided by a treatment provider or student is incomplete, requires further explanation or clarification, or when there is a discrepancy between the medical information provided and other available information relating to the student, the student may be required to provide additional documentation and/or grant permission to the SHC to obtain further information about the student’s current condition. In extraordinary circumstances (e.g., concern exists about the medical provider’s credentials/assessment, etc.), the student may be asked to undergo, at their expense, additional evaluation or assessment to assist with the determination about readiness to return. All steps that the SHC may initiate as part of its individualized assessment are aimed at ensuring the student is ready to resume studies and be a successful member of the campus community.

Every effort will be made to respond to a student’s request for return within fourteen (14) calendar days of receipt of all requested or required materials. A longer response time may be caused by the inability to reach a student’s treatment provider, clinic closure during University holiday periods, or other extenuating circumstances.

If the decision is made to grant the student’s request to return and lift the medical clearance hold, relevant University personnel may contact the student to discuss or review a plan for sustained health. Recommendations for return shall, if applicable, include, but will not be limited to, ongoing treatment, accommodations, or other resources to help the student succeed.

If, at the discretion of the SHC physician, it is determined that the hold should remain in place because a student is not yet ready to return, the student will be advised in writing by letter or via email to their University account. A student may appeal that decision by submitting an appeal letter in writing to the SHC by email (medwithdrawal@ua.edu) or fax (205-348-7174) within fourteen (14) calendar days of receiving the SHC physician’s decision. A designated Appeal Team, which will consist of the executive director of the SHC, the director of Student Care & Wellness, and a designee of the provost, shall review the matter and make a final determination as to the student’s ability to return. Once the Appeal Team’s determination has been made, that decision is final and no further appeals are permitted.

A student registered for a future term and seeking a medical withdrawal will have a medical clearance hold placed on the student’s record, which will temporarily preserve the enrollment for that future term assuming all financial obligations are met. The student will have until one week prior to the start of the future term to have completed the protocol listed above and have the hold removed. The medical clearance form should be submitted one month prior to the first day of classes for the semester the student wishes to attend. The process normally takes about 14 working days, depending on the need for additional communication with the licensed provider.

If the medical clearance hold is lifted, the returning student may have additional holds on their record (e.g., conduct hold, financial hold, academic hold, etc.) that will need to be resolved through other areas of the University before the student may return. Additionally, to return, the student must meet any applicable admission and enrollment requirements of the University and of the school or college in which they wish to be enrolled.

Financial Impact of Medical Withdrawals
The purpose of this policy is to provide academic relief to the student, not financial relief. Please refer to Student Account Services policy for the financial impact of withdrawals at different stages in the semester (https://studentaccounts.ua.edu/financial-implications-of-withdrawal-impact-on-institutional-costs-and-charges/). Financial questions may also be directed to Student Account Services, 205-348-5350.

Other Options For Students When Medical Withdrawal is Not Appropriate
When Medical Withdrawal is not appropriate, the student is directed to the appropriate dean’s office student services area for other potential options.

Questions
Please call 205-348-7164 for clarification or more information.

Academic Records

Academic Calendar Year
For a list of all parts of term and important dates, please visit registrar.ua.edu/academiccalendar/.

Classification of Students
University of Alabama students are classified by credit hours earned. Read more. (p. 637)

Department, Program, and Course Alpha Symbols
Learn which symbol and division matches each department, program, or course. Read more. (p. 884)

Grades and Grade Points
A student’s overall grade point average (GPA) is comprised of all work completed at the collegiate level, including work completed at The University of Alabama as well as work completed at other postsecondary institutions and accepted for credit at The University of Alabama in accordance with the Transfer Credit Policy. Read more. (p. 885)
Honors
A dean's list of superior students is compiled and published at the close of each semester. Read more. (p. 888)

Transcripts
Official transcripts are issued by the Office of the University Registrar to recognized institutions and agencies that require these documents. Read more. (p. 889)

Academic Calendar Year
For a list of all parts of term and important dates, please visit registrar.ua.edu/academiccalendar/.

Classification of Students
University of Alabama students are classified as follows:

Undergraduate Students
- Freshman: 0-30 semester credit hours earned
- Sophomore: 31-60 semester credit hours earned
- Junior: 61-90 semester credit hours earned
- Senior: 91 or more semester credit hours earned

Law Students
- Second-year law student: 30 hours earned in law courses
- Third-year law student: 56 hours earned in law courses

Upper Division and Lower Division
Certain colleges and schools within the University recognize two enrollment categories, upper division and lower division. To progress from the lower division to the upper division in any college or school, the student must meet all requirements specified by that college or school. Admission to the lower division in a college or school does not guarantee progression to the upper division. Each student should consult academic advisors in the college or school of his or her enrollment to learn about the requirements for progression to the upper division.

Course Inventory
This page contains a listing of all active courses in The University of Alabama’s course inventory by College. Click on any tab above to view the course titles, credit hours, descriptions, and prerequisites.

College of Arts & Sciences Courses
AAST100 “Call and Response”
Hours 1
This course is designed to generate student interest and excitement in African American Studies by giving students opportunities to explore facets of African American cultural experiences. Following an interdisciplinary approach, this course will allow students to discover the rich diversity of African American cultural practices such as music, visual arts, literature, storytelling, dance, and religious practice. This course allows students at UA and UAB to experience the expertise of faculty from both institutions. It is also web-enhanced and has components on both UA’s and UAB’s BlackBoard systems for which UA and UAB students will access.

AAST201 Intro African Amer Study
SB
Hours 3
A basic outline of the diversity and complexity of the African-American experience in the United States: the early academic and social concerns of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation and multiculturalism; and its major theoretical and critical debates.

Social and Behavioral Sciences
AAST202 African American Lives
Hours 3
A cultural approach to African American lives, exploring the role of the individual, biography, and narrative in African American history and culture.

AAST221 Contemporary In(queer)ies
Hours 3
In her essay “Queer and Now,” Eve Kosofsky Sedgwick offers a rumination on the political, epistemological and pedagogical imports of “queer” at that moment: “That’s one of the things that ‘queer’ can refer to: the open mesh of possibilities, gaps, overlaps, dissonances and resonances, lapses and excesses of meaning when the constituent elements of anyone’s gender, of anyone’s sexuality aren’t made (or can’t be made) to signify monolithically.” This 3 credit hour course, takes up Sedgwick's suggestion of the possibilities of “queer” to consider the development of queer theory, queer studies, and queer politics. Although this course is organized thematically across a number of disciplines, it also resists a kind of stringent categorization or segmentation- mirroring the energy that has characterized this interdisciplinary field. While paying attention to the seemingly endless possibilities associated with queer theory, this course is profoundly committed to as Sedgwick argues to keep “same-sex sexual expression at “the terms definitional center,” as not to “dematerialize any possibility of queerness itself.”.

AAST222 LGBTQ Histories
Hours 3
During the past decade, lesbian, gay, bisexual, transgender and queer (LGBTQ) Americans have achieved various forms of empowerment and visibility in the nation’s political, legal, social, and cultural arenas. However, LGBTQ persons continue to face various barriers to full equality and well-being including employment discrimination, high rates of homelessness among teens, violence, and inadequate access to health care. This 3 credit hour course places will focus on the events emergence of the last decade into a longer history of LGBTQ communities, visibility and politics that begins LGBTQ community in the late nineteenth 20th century and ends in the early twenty-first century. American Culture. During the semester, we will explore the historical development of LGBTQ identities, communities, politics, and cultural production. Together, we will analyze an array of materials including scholarly texts, oral histories, newspapers, films, photographs, art and political ephemera.
AAST225 Black Women’s Experiences in the South  
Hours 3  
Southern/Black/Woman. This demographic descriptor encompasses notable figures - Ida B. Wells, Bessie Smith, Condoleezza Rice, Beyoncé – and millions whose names and individual stories are often marginal to American memory and public policy. This course examines various aspects of Southern Black Women’s lives and labors, pain and pleasures, adventures and adversities from the nineteenth century to the present day. Students will analyze an array of materials including: memoirs/autobiographies, oral histories, secondary scholarship, census data, paintings, photographs, film, television and music. Using in-class activities, discussion and writing assignments, this course addresses one central question: What can the academic study of Black Women’s experiences in the South reveal about gender, race, class, and sexuality in the United States (past and present)?.

AAST226 Themes from Africa to America  
Hours 3  
An examination of the spread of religious life in the African America's emphasizing present institutions and practices; its African roots, its shape and function during slavery and its development from Emancipation to the present.

AAST249 African American Literature  
HU, L  
Hours 3  
Survey of African American literature from its earliest expressions to the present. In order to identify the aesthetics of the African American literary tradition, the course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.  
Prerequisite(s): (Undergraduate level EN 101 with minimum Grade of C- and Undergraduate level EN 102 with minimum Grade of C-) OR (Undergraduate level EN 103 with minimum Grade of C- or Undergraduate level EN 104 with minimum Grade of C-) OR (Undergraduate level EN 120 with minimum Grade of C- and Undergraduate level EN 121 with minimum Grade of C-)

Humanities, Literature  
AAST302 The Black Church  
Hours 3  
A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AAST303 Education Of Southern Blacks  
Hours 3  
A study of the “miseducation” of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AAST304 Civil War Still Lives': Race, Memory, and the Politics of Reunion  
Hours 3  
For over 150 years, the Civil War occupies a prominent place in our national memory and has served to both unite and divide Americans. This course will explore the various ways in which Americans have chosen to remember their civil war through reunions, monuments and memorials, histories, literature, film, museums as well as other forms of popular culture. We will examine how memory of the war changed over time as well as the political implications for Civil War memory, the nation, and identity in understanding both historical and contemporary debates.  
Prerequisite(s): None

AAST319 19th Century Black History  
Hours 3  
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

AAST320 20th Century Black History  
Hours 3  
The interrelationship of blacks and the industrial-urban environment of the United States.

AAST321 African American Folk Art  
Hours 3  
This course will focus on analysis of object, created by African Americans variously classified as folk, self-taught, outsider artists. Material will address African origins. American transformations of traditional arts and crafts.

AAST341 African American Art  
Hours 3  
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Civil Rights and Black Power movements, the women’s movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AAST345 Topics African American Lit  
Hours 3  
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.

AAST350 Social Inequality  
Hours 3  
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

AAST352 Special Topics  
Hours 3  
An examination of selected African American topics. May be repeated for a maximum of 18 hours.
AAST401 Black Intellectual Thought
Hours 3
An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including, history, political theory, literature, women's studies, sociology, pyschology and philosophy.
Prerequisite(s): AAST 201 and AMS 201

AAST402 Special Topics
Hours 3-9
An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST413 Communication & Diversity
W
Hours 3
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

AAST415 African American Rhetoric
W
Hours 3
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

AAST435 Black Feminism
Hours 3
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200

AAST436 Gender and Black Masculinity
Hours 3
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. We will also examine the social, political, and economic conditions of Black male life in the contemporary period and interrogate representations of Black men and boys in U.S. culture and society in relation to the broader politics of race, class, gender, and sexuality in the post-civil rights era. Specific attention will be paid to the history of ideas and approaches that have shaped and defined our understanding of Black males. You will be introduced to historical and socio-cultural circumstances that affect Black males and the diverse nature of Black culture. This course will also attempt to heighten awareness and sensitivity to the contemporary problems affecting Black males and thus help discover and evaluate social policies and programs geared towards Black males.

AAST488 Adv Study African American Lit
Hours 3
A special topics course that focuses on issues in African American literature.

AAST490 AAST Independent Study
Hours 1-6
Independent study on any subject pertaining to African-American studies, under the supervision of a professor in the chosen field and/or Director of the program.

AAST495 Special Topics
Hours 3
An examination of selected African American topics. May be repeated for a maximum of 18 hours.

AFS101 Leadership Laboratory
Hours 1
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for first-year AFROTC cadets.

AFS102 Leadership Laboratory
Hours 1
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for first-year AFROTC students/cadets.

AFS110 Foundations Of The Usaf
Hours 1
'The Foundations of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. AFS 101 Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.
AFS120 Foundations Of The Usaf
Hours 1

The Foundations of the United States Air Force is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

Prerequisite(s) with concurrency:

AFS201 Leadership Laboratory
Hours 1

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for second-year AFROTC students/cadets.

AFS202 Leadership Laboratory
Hours 1

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for second-year AFROTC students/cadets.

AFS230 Evolutn Of Us Air Power
Hours 1

A course designed to examine general aspects of air power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force core functions to demonstrate the evolution of what has become today's USAF. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air power, from an institutional, doctrinal, and historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force core functions to demonstrate the evolution of what has become today's USAF. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air power, from an institutional, doctrinal, and historical perspective. In addition, what the students learned about the Air Force Core Values in AS100 will be reinforced through the use of operational examples, and they will complete several writing and briefing assignments to meet Air Force communication skills requirements. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFS240 Evolutn Of Us Air Power
Hours 1

A course designed to examine general aspects of air power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force core functions to demonstrate the evolution of what has become today's USAF. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air power, from an institutional, doctrinal, and historical perspective. In addition, what the students learned about the Air Force Core Values in AS100 will be reinforced through the use of operational examples, and they will complete several writing and briefing assignments to meet Air Force communication skills requirements. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

Prerequisite(s) with concurrency:

AFS301 Leadership Laboratory
Hours 1

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for third-year AFROTC cadets.

AFS302 Leadership Laboratory
Hours 1

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for third-year AFROTC cadets.

AFS350 USAF Leadership Studies
Hours 3

A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. Students enrolled in AFS 350 and AFS 360 courses are AS 300-level cadets who are in their junior year of AFROTC program, unless approved otherwise.
AFS360 USAF Leadership Studies
Hours 3
A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. Students enrolled in AFS 350 and AFS 360 courses are AS 300-level cadets who are in their junior year of AFROTC program, unless approved otherwise.

AFS401 Leadership Laboratory
Hours 1
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for fourth-year AFROTC cadets.

AFS402 Leadership Laboratory
Hours 1
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Provides an introduction to the military profession, including applications in leadership, drill and ceremony, customs and courtesies and communication service. This course is for fourth-year AFROTC cadets.

AFS470 National Security Affair
Hours 3
Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. Students enrolled in AFS 470 and AFS 480 courses are AS 400-level cadets who are in their final academic year of AFROTC program, unless approved otherwise.

AMS100 Special Topics
Hours 1
Selected American topics for lower-division undergraduate students offered by American studies faculty members or supervised teaching assistants. Some examples include the following five-week, one-hour courses: African-American Star Athletes, Superbowl Ads, Stand Up Comedy, Disney’s America, and Why Eat Local?.

AMS101 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS102 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS103 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS104 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS105 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

AMS106 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.
Humanities

AMS150 Introduction to American Studies: Arts and Values

**HU**

Hours 3

Exploration of the relation between the arts - popular, folk, and elite - and American culture in four selected periods: Victorian America, the '20s and '30s, World War II and the Postwar Era, and the '60s. Class presentations and discussions revolve around novels, movies, art, music, artifacts, and readings about the periods. This course is team taught by all the members of the American studies faculty. Offered fall semester.

Humanities

AMS151 Intro American Studies: World Nation & Region

**HU**

Hours 3

A broad survey of American culture formed by global, national, and regional influences. The first section, "World," looks at the United States as a product and shaper of international movements, ideas, and cultures from 1500 to the present. The second section, "Nation," examines the creation of a distinctly American identity between 1790 and 1890 that ultimately incorporated and reflected global issues. The third section, "Regions," focuses on the South and other regions as contributors to and consequences of national and global interactions. Team taught by the entire AMS faculty, lectures will include topics on film, music, literature, art, sports, and other cultural artifacts. Offered spring semester.

Humanities

AMS200 Special Topics Amer Stud

Hours 3

Selected American topics for lower-division undergraduate students offered by AMS faculty members or Americanists from related departments. Recent examples include The Asian-American Experience, The American Road, The Sporting Life, Baseball Since 1945, and Twilight Zone Culture. May be repeated for a maximum of 12 hours.

AMS201 Intro African Amer Study

**SB**

Hours 3

This course provides a basic outline of the diversity and complexity of the African American experience in the United States. It surveys the early academic and social concern of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation, and multiculturalism; and its major theoretical and critical debates.

Social and Behavioral Sciences

AMS203 Introduction to Southern Studies

**HU**

Hours 3

This discussion-based course introduces students to major texts and interdisciplinary methodologies in the field of Southern Studies. Traversing epochs from before the Civil War until after the Civil Rights Movement, we will scrutinize the interplay between course materials (autobiographies, fictional texts, historical accounts, and films) and major political, cultural, and social forces influencing the region and the nation.

Humanities

AMS204 Introduction to Western American Studies

**HU**

Hours 3

A lecture/discussion course utilizing a biographical approach to the salient themes, issues, and episodes of the American West. Some of these lives are real, some of them imagined, and others are a little of each. All of them, however, reveal much about both region and nation and how each has changed over time.

Humanities

AMS205 Dirty Jobs

**HU**

Hours 3

This course explores jobs that get you "dirty." Work is one of the aspects that most shapes individual lives, and many lines of work are viewed as dangerous, dirty, or somehow unsavory by American society. This course uses films, TV shows, written narratives, and music to explore different types of "dirty" work in the United States.

Humanities

AMS206 Native American Studies

**HU**

Hours 3

There's a lot more to Native Americans than the first Thanksgiving, the Battle of the Little Bighorn, and casinos (although we'll discuss all those things too). This course will introduce you to the diversity of Native American societies, their histories, and their significant influence on American culture, contemporary U.S. policy, and law. We'll be examining everything from ancient archaeological artifacts to contemporary film and literature as we investigate the vital role of indigenous people in North America. As much as possible, we'll be directly engaging Native sources and voices as we explore the struggles over land, sovereignty, and culture that have shaped (and continue to shape) Native American lives.

Humanities

AMS208 Rock, Hip-Hop, and Country

Hours 3

This course will offer an introduction to popular music that young Americans used for two generations, to root their aesthetics, center their values, and test their ethical allegiances.

AMS222 Modern Gay America: Introduction to LGBTQ Histories

Hours 3

During the past decade, lesbian, gay, bisexual, transgender and queer (LGBTQ) Americans have achieved various forms of empowerment and visibility in the nation's political, legal, social, and cultural arenas. However, LGBTQ persons continue to face various barriers to full equality and well-being including employment discrimination, high rates of homelessness among teens, violence, and inadequate access to health care. This 3 credit hour course places the events of the last decade into a longer history of LGBTQ communities, visibility and politics that begins in the late nineteenth century and ends in the early twenty-first century. During the semester, we will explore the historical development of LGBTQ identities, communities, politics, and cultural production. Together, we will analyze an array of materials including scholarly texts, oral histories, newspapers, films, photographs, art and political ephemera.

Prerequisite(s): None
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AMS231 Contemporary America

Hours 3

This course analyzes the changing nature of American values for the period dating from the 1970s through the 2000s by examining key developments in the everyday life patterns and cultural expressions of Americans in contexts that range from the local to the international. In doing so, we will draw connections between the economic and political contexts of these decades and contemporaneous works of creative expression and popular culture. This course also will serve as an introduction to the types of interdisciplinary research methods used in American Studies. Offered fall and spring semesters.*.

Humanities

AMS300 Special Topics

Hours 3

Selected American topics for advanced undergraduate students, offered by American Studies faculty members or Americanists from related departments. Recent examples include American Hobo Subculture, World War II and Modern Memory, Women’s Liberation Movement, Justice and Civil Society, Southern Sexual Cultures, and Cultures of American Slavery. May be repeated for a maximum of 12 hours.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS303 Education Of Southern Blacks

Hours 3

A study of the “miseducation” of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AMS310 The Latinx Experience

W

Hours 3

This course focuses on the history of people of Latin American descent (Latinas/os) living in the United States. Although we will examine communities comprised of people of Central and South American descent, the focus of this course will be on the four largest Latinx groups: those of Mexican, Puerto Rican, Cuban and Dominican descent. Students will become familiar with issues that have affected different Latinx populations in the United States: migration patterns, cultural interaction, community and cultural formation; and racial formations. We will also examine relations among Latinx and European immigrants, and consider the affects of US intervention and imperialism in Latin America on US Latinx communities. Lectures, readings, and films will explore connections between the past and the present and provide students a forum to express their own viewpoints on the legacy of this history.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

Writing

AMS315 Work and Workers Since 1865

Hours 3

Examines the history of workers - men and women, paid and unpaid, of different racial and ethnic groups, in different regions of the United States - from 1865 to the present.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS316 Labor on Film

Hours 3

This course examines the ability of film to successfully portray the history of labor in the US and how present events and attitudes shape portrayals of past events.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS318 Amusement and Tourism in America

Hours 3

This course explores the centrality of amusement and tourism in defining the American pursuit of happiness. The course examines varied forms of leisure culture that emerged in the 19th century and exploded in popularity throughout the 20th century. By asserting connections between a wide range of amusement and tourist activities, the course provides a framework for understanding how Americans at play participate in a vibrant component of American social, economic, and aesthetic history.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS320 American Popular Humor

Hours 3

This course explores major writers, performers, works, and themes of American humor that have achieved enduring popularity among mass audiences. It examines the social and historical contexts that reverberate in humor produced in the United States and focuses on three persistently popular mediums: prose and performance; film; and the television situation comedy.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS321 African American Folk Art

Hours 3

An examination of the objects created by African Americans variously classified as “folk,” “self-taught,” and “outsider” artists. Course material will address the African origins and American transformations of traditional arts and crafts (architecture, pottery, iron work, and quilting) as well as the work of selected 20th-century artists in such media as painting, sculpture, and assemblage. Key concerns will include not only analysis and cultural/historical contextualization of these artists and their works but also political and theoretical debates with respect to issues of collection, modes of exhibition, and use of the above-listed classifications.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.
AMS323 Into the Wild: Nature and American Popular Imagination  
W  
Hours 3  
This course examines the often contentious and always passionate American relationship with “nature,” an idea as much as a physical reality. Students consider the varying ways that nature has been imagined over a wide range of time periods and through the lenses of various forms of creative expression and cultural practices. The course explores how our complex relationship with “nature” has influenced American culture at large, its history and mainstream values.  
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS325 America West And 19th Century  
Hours 3  
Few things remained so central to the 19th American century experience as the West, a region to be explored, inhabited, and incorporated into an expanding urban-industrial society. From Lewis and Clark to Buffalo Bill, this lecture/discussion course examines the relationship between America and the West as it developed throughout the 19th century.  
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS326 The Modern West  
Hours 3  
This lecture/discussion course examines the growth of the American West during the 20th century as both the embodiment of modernity and, as mythic imagination, an escape from the very modernity it represents.  
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS327 The American Western  
Hours 3  
Since its creation toward the close of the 19th century, the western has been the most popular genre in American film history. No popular genre has generated anything like the kind of sustained attention, enthusiasm, interest, passion, anger, or debate as the American western. Which is the focus of the course: a chronological treatment of the on-going relationship between the western film and the meaning of modern America.  
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS335 American Pop Music  
W  
Hours 3  
Recent scholarship has shifted popular music history from folk roots and rock rebellion to pop: commercial, accommodating, but no less fascinating amalgamations. This class will range from blackface minstrelsy in the 1800s to American Idol today, defining mainstreams rather than undergrounds. Pop music performed capitalism, but it also performed democracy. Sorting out that process will be the task.  
Prerequisite(s): Six Semester Hours of Humanities and/or Social Sciences or Instructor’s Permission.

AMS340 Women in the South  
W  
Hours 3  
What insights into American experience are afforded by reading nineteenth- and twentieth-century texts in which Southern women engage questions of gender, class, race, labor, and region? This class will explore fictional and nonfictional prose by and about Southern women in order to examine how historical, cultural, and sociopolitical factors have shaped the lives and writings of women in the South. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): Six Semester Hours of American Studies or Instructor’s Permission.

AMS341 African American Art  
Hours 3  
An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Civil Rights and Black Power movements, the Women’s Movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.  
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

AMS352 American Folklore  
Hours 3  
This course offers a survey of such genres of American folk culture expression as ghost stories, urban legends, foodways, music, and folk art—paying special attention to how these diverse forms of expression reflect and shape particular regional, ethnic, class, and gender identities. Course materials include ethnographic writing, sound recordings, film, and folklore scholarship. The course also will devote attention to the competing definitions of “folk” and “folklore” prevalent from the late 19th century to the present. Assignments will emphasize student collection and analysis of original folklore material.  
Prerequisite(s): 6 SH Humanities or Social Sciences or permission of instructor.

AMS367 The American Game  
Hours 3  
Lecture topics, readings, and classroom discussions will pursue major connections between baseball and American society from 1880 to the present: (1) the modernization of America and the rise of an urban, industrial game; (2) baseball and race; and (3) postwar America and baseball.  
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.
Native American imagery is widespread in American culture, from butter packaging to sports mascots and from children’s picture books to epic films. These depictions have embedded ideas about American Indians—often romanticized, stereotyped, or just inaccurate ideas—in the imaginations of millions of readers and film-goers. In this course, we will examine representations of Native Americans in art, writing, film, music, and more, ranging from early encounters between Natives and newcomers to contemporary pop culture. We’ll consider continuities and changes in how Indians have been imagined by outsiders, while also exploring Native self-representation in the face of cultural appropriation and stereotyping. We’ll explore a variety of methods and sources as we reflect on the pervasiveness of ideas about, and images of, Natives in American culture.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

Writing

AMS400 Internship
Hours 1-3

An internship opportunity that combines independent study and practical fieldwork experience focusing on a particular problem or topic related to American culture and experience. Examples are internships in archival fieldwork, material culture fieldwork, museum management, and sound recordings. Credits earned in this course are applicable to the major and minor in American studies but are not counted in 400-level requirement. May be repeated for a maximum of 6 hours.

AMS401 Black Intellectual Thought
Hours 3

An upper level seminar designed to provide students with an in-depth study of major intellectual debates and movements that have shaped the politics, history and identities of the people of African descent in the United States and the African diaspora. The course will combine methodologies and concepts from multiple disciplines including history, political theory, literature, women's studies, sociology, psychology and philosophy.

AMS402 Special Topics
Hours 3

Selected African American topics for advanced undergraduate students. May be repeated for a maximum of 12 hours.

AMS403 Honors Research - Ams

UH
Hours 3

Internship opportunity that combines guided and independent study with on- or off-campus research experience involving a particular methodological approach to American culture and experience. Examples are social science methods, oral history, original manuscript research, and technology.

University Honors

AMS405 Directed Study
Hours 1-3

May be repeated for a maximum of 6 hours.
AMS416 American Environmental Thought in a Global Context
W
Hours 3
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization. Using accounts from various regions, the course explores evolving conceptions of nature and justice, competing claims about race and class, and changing institutional responses and remedies to environmental degradation in the context of global change. The course is highly interactive, inviting critical thinking about the human place in the physical world. We read and discuss ecological views as presented in colonial writings, slave narratives, Transcendentalist thought, Gilded Age preservationist and conservationist debates, and the work of Progressive Era occupational health specialists and ecologists. We give specific attention to twentieth century social movements for environmental public health, examining contemporary approaches, including eco-feminism, environmental justice, and sustainability.
Prerequisite(s): Permission of the instructor.
Writing

AMS420 Mark Twain’s America: America’s Mark Twain
Hours 3
This course employs the life, work, and times of America’s most celebrated author to examine American popular culture from the mid-nineteenth century to the present. In addition to exploring his major works and his times, the course considers his impact on popular culture to this day—from film adaptations of his work, to pop-culture references, to the traditions of American humor and cultural criticism.
Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor

AMS421 Writer & Artist in America
W
Hours 3
This course offers a comparative examination of responses by 20th century literary and visual artists to perceived social crises and challenges to American cultural values, such as sex in the early 20th century American city, working class struggles during the Great Depression, issues of atomic anxiety during the early years of the Cold War, the ethical dilemmas of the Vietnam War, the perils of the AIDS/HIV crisis, and the flourishing of contemporary consumer culture. The course also introduces several important movements in twentieth century American arts and letters, including Naturalism, Modernism, Social Realism, the Beat movement, Social Surrealism, and Postmodernism.
Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor
Writing

AMS422 Popular Culture in America
W
Hours 3
A selective survey and analysis of 20th century U.S. popular culture—particularly, comic books, fan culture, television, music, advertising, and sports. Examines ways in which popular culture has reflected and shaped aspects of American society such as gender ideologies, economics, race, class, and regional identity.
Prerequisite(s): 9 SH Humanities/ and Social Sciences courses or permission of instructor

AMS423 The Roots of American Music
W
Hours 3
This class surveys American music from ragtime, blues, and hillbilly to Broadway, Hollywood musicals, and swing jazz. Our focus will be on commercial mainstreams and democratic audiences – how selling sound led to different identities being expressed through taste and style. Race, gender, class, sexuality, age, technology, and the music business will all factor as we move from blackface minstrelsy in the 1800s to World War II. We will listen closely to several songs each week, connecting music to larger themes through primary and secondary sources, regular writing, and in-class discussion.
Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor.
Writing

AMS429 America between the Wars
W
Hours 3
Explores first two decades of America’s "Modern Times" (1919-1941) when Americans redefined themselves and their society embracing and debating (sometimes hotly) old beliefs, new conceptions, and the implications of a machine-driven, modern-mass society. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor
Writing

AMS430 Special Topics
Hours 3
Selected American topics for advanced undergraduate majors in American studies, offered by American Studies faculty members or Americanists from related departments. May be repeated for a maximum of 6 hours.
Prerequisite(s): Nine Semester Hours of humanities or social science courses or Instructor’s Permission
AMS439 Urban Spaces: The Nature of Cities  
W  
Hours 3  
This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present. Course readings include classical scholars in urbanism and urban design. Contemporary urban environmental histories explore population shifts and land use along the urban gradient from the suburbs to urban centers, with attention to water, sewer, and transportation infrastructure, pollution, and urban sprawl. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

AMS445 The "Good War"  
W  
Hours 3  
Examination of selected topics from the American experience during the Second World War. Topics include the Homefront, the Holocaust, race relations, the emergence of American air power, and the impact of the war on American memory and postwar American society. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor.

Writing

AMS446 Gender and Environment  
W  
Hours 3  
This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform. Texts include histories of environmental concepts and reform campaigns, broadly conceived, including slave narratives, accounts of experiences in the women's club movement, the conservation movement, and Progressive Era occupational and public health reform, along with more well-known twentieth century nature writers, contemporary scholars, and activists. Particular attention is paid to women whose identities are defined in part by their status as immigrants, women of color, or in other marginalized categories. Case studies explore global environmental reform as well as U.S. experiences. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

AMS450 (En)gendering Black History: Black Feminist Thought and Action in American History  
Hours 3  
In the Zora Neale Hurston classic, Their Eyes Were Watching God, the protagonist's (Janie) grandmother described the gender and racial norms that dictated their lived experiences as women and racial minorities under the Jim Crow regime. This class places the experiences and expressions of black women like Janie and her grandmother at the center of scholarly and pedagogical explorations of black feminist thought and action. Beginning with black women’s responses to legal racialized chattel slavery in the nineteenth century and ending in the early twenty-first century, we will examine how black women in the United States articulate(d) politicized understandings of and responses to interlocking oppressions including racism, sexism, patriarchy, heterosexism, classism, etc. This interdisciplinary course will also examine African American gender and sexual politics, interactions between black women and the state, moments of coalition and conflict between black and white women, as well as the diverse nature of black feminist thought.

AMS460 Race & Ethnicity in US Labor  
Hours 3  
This course is designed to familiarize students with the important topics, themes, and methodologies in the study of race and ethnicity in U.S. labor. Throughout the semester, the class will examine the lives of working women and men and their roles in the social, political, and economic development of the United States. The class will analyze the roll of gender, race, and ethnicity at home and in the workplace and examine how scholars have studied the people, events and institutions in this field.

Prerequisite(s): Nine Semester Hours of American Studies Courses or Instructor’s Permission

AMS465 Fictions of American Identity  
W  
Hours 3  
An examination of American literature and culture from before the Civil War until after the Civil Rights Movement. Representations of American experience in essays, novels, poems, short stories, social reformist tracts, and the visual arts will be studied in the context of social and political debates over slavery, national identity, women's roles, immigration and assimilation, social mobility, urbanization, sexual mores, consumer culture, and race relations. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor.

Writing
AMS470 Natives and Newcomers: Cross-Cultural Encounters in Early America  
W  
Hours 3  
The colonization efforts of European empires in the early modern period led to cross-cultural encounters between societies previously unfamiliar with one another, introducing each of them to unfamiliar ideas, cultures, political systems, and landscapes and changing their lives in profound ways. This course explores the complex interactions between Native American, European, and African peoples in North America, with a particular focus on the region that is currently the Southeastern United States. Such cross-cultural contact could result in valuable collaborations, deep misunderstandings, violence, or contests for power. How were interactions with unfamiliar peoples described and understood by Native Americans, Europeans, and African peoples in North America? How did the circulation of peoples and cultures shape ideas about ‘America’ and ‘Americaness’? Is ‘encounter’ a single event, or a long process? This course meets a college core writing requirement; a demonstration of writing proficiency is required for a passing grade in this course.  
Prerequisite(s): Nine hours of American Studies Courses or permission of instructor.  

Writing  
AMS480 Democracy in America  
Hours 3  
Throughout the first half of the nineteenth century, Americans prided themselves on their democratic politics, industrial progress, science and technology, religious faiths, capitalist tendencies, and control over nature. No other person captured the essence of American society and manners more than the French aristocrat, Alex de Tocqueville, who traveled to the United States in the 1830s and published his famous work, Democracy in America. Using Tocqueville’s observations as well as fiction, autobiography, painting, politics, and more, this course explores how ordinary Americans presented themselves as a democratic people from 1800 to 1865.  
Prerequisite(s): Nine semester hours of American Studies Courses or Instructor’s permission  

AMS492 American Topic Seminar  
Hours 3  
Study of special topics within the American cultural experience. Recent examples include American Thought, Sports in American Life, American Perspectives on the Environment, the Civil Rights Movement, the Picture Press, Music and Ethnicity, the Politics of Culture, Regionalism, Homelessness in America, American Autobiography, American Monuments, Southern Popular Culture, Politics and Culture, Historical Memory, America by Design, Women in America, Race in America, 19th-Century Popular Culture, and Disasters in America.  
Prerequisite(s): Nine semester hours of American Studies Courses or Instructor’s permission  

ANT100 Intro To Anthropology  
SB  
Hours 3  
This course introduces students to the subfields of anthropology and demonstrates the benefits of a holistic approach to understanding globalization, multiculturalism, and cultural diversity. The concepts of evolution, human prehistory, language, and culture are explored as well as the diversity of human cultural patterns, including variations in marriage, kinship, and religion. SB Credit.  
Social and Behavioral Sciences  

ANT102 Intro to Cultural Anthropology  
SB  
Hours 3  
An introduction to the discipline of cultural anthropology, the branch of anthropology that examines the rules and behaviors of contemporary human cultures. The course will demonstrate the importance of a holistic approach to understanding human diversity, and compare and contrast the various developments cultures use to tackle the universal problems of human living. SB Credit.  
Social and Behavioral Sciences  

ANT103 Discoveries In Archaeology  
SB  
Hours 3  
This course examines the major archaeological discoveries of the last two centuries that have led to significant insight about the nature of human organization. Not only will some of the broader cultural patterns in human prehistory be explored such as the origins of writing, religion, art, calendar systems, agriculture, and cities, but we will also learn about several remarkable archaeological sites and phenomena, including Stonehenge, the pyramids of Egypt, upper Paleolithic cave paintings, Machu Picchu and many other impressive achievements of the past.  
Social and Behavioral Sciences  

ANT106 Native Peoples of North America  
SB  
Hours 3  
Comprehensive overview of the prehistory, history, and modern day cultural diversity of Native Americans throughout North America. Historical and technological developments of different native groups are explored including changes as a result of European contact and the more recent attempts to revitalize Native American culture.  
Social and Behavioral Sciences  

ANT107 Intro to Archaeology  
Hours 3  
Overview of the methods archaeologists use to study prehistoric cultures and an introduction to the study of human culture over the past two million years.  

ANT113 Indians Of Deep South  
Hours 3  
Introduction to the Native Americans of Alabama and their nearby neighbors. Focuses on describing and explaining lifeways of indigenous peoples using ethnographic, ethnohistoric, and archaeological studies.
ANT150 Evolution for Everyone  
Hours 3
This course is designed to open students minds to what evolution is and how it applies to all life. Toward that end, we will view lectures given by evolutionary scholars from varied institutions and disciplines.

Social and Behavioral Sciences

ANT208 Anthropology of Sex  
Hours 3
This course is an introduction to human sexuality from a biocultural perspective with emphasis on sexual diversity and pluralism and psychosexual evolution. It traces the evolution of human sociosexual behavior, including human sexual physiology, preproductive strategies; contemporary courtship, mating and marital patterns; gender differences in the brain and behavior; and sexual and social emotions. It compares the sexuality of humans to non-humans, especially to that of other primates. It also discusses human sexuality from the perspective of different cultures throughout the world. Among other topics, the course will address the psychobiocultural dimensions and implications of attraction, fidelity sex techniques, gender, incest, homosexuality and transsexuality and sexually transmitted diseases.

ANT210 Language and Culture  
Hours 3
Human activity in its linguistic, cultural, and social contexts; interrelationships between culture and natural language; and the influences of language and culture on thought and behavior.

Social and Behavioral Sciences

ANT215 Anthropology in Movies and Fiction  
Hours 3
Compares portrayals of anthropologists and core anthropological issues in movies and fiction to anthropological perspectives and scholarship.

ANT216 Ethnographic Cinema  
Hours 3
This course is a survey of the history of ethnographic cinema. Students in this class will learn this history by viewing important ethnographic films and by discussing and critiquing the visual representation of culture and society in anthropology.

ANT217 Peoples of Asia  
Hours 3
This discussion-based course explores the anthropology of Asia, with a different topical focus each semester. These foci include diverse subjects of anthropological study (marriage, class mobility, labor, masculinity, politics, medicine, freedom). Over the course of the semester, students will pay special attention to how these subjects are shaped by the circulation of social movements and globalizing forces like production and consumption, global media, and human rights discourses. In so doing, this course will raise questions about the relationships between theory, epistemology and method as they pertain to the anthropology of Asia, and to anthropology more generally.

ANT250 Issues in Anthropology  
Hours 3
This course is a flexible listing designed to cover specific topics in anthropology not already offered through an existing course. It is similar to ANT 450 Problems in Anthropology, but allows students with less exposure to ANT or the particular issues addressed an opportunity to learn more at a more introductory level.

ANT261 South American Archaeology  
Hours 3
At the time of European contact, chroniclers who visited South America wrote in awe of its diversity of peoples and cultures, its sheer richness of natural resources, its wealth, monuments, and urban centers, and its technological achievements. Indeed, South America witnessed the development of social complexity early in prehistory, a prehistory that includes the rise and fall of state-level societies, kingdoms, and empires—all without the use of writing and such inventions as the wheel. In this class, we will examine how the history of South America is situated within the history of humankind as a whole. We will survey the region’s cultural history, beginning with the peopling of South America in the Pleistocene epoch and ending with the impact of European colonization on native peoples in the Andes, Amazonian, and the Caribbean. We will learn about the role that archaeology is uniquely capable of playing in bringing to light the continent’s fascinating past and learn about the material culture and biological/environmental factors that make the region singular in comparison to other culture-areas of the world.

ANT262 UA Excavations at Vergina, Greece  
Hours 3
This is a collaborative project between the University of Alabama (UA) and Aristotle University—Thessaloniki (AUTh). For two weeks each summer students will participate in ongoing excavations at the world-famous Vergina site, home of Philip II of Macedon, father of Alexander the Great.

Prerequisite(s): ANT 107 and CL 323, and approval by instructor (s). The course is only open to UA undergraduates.

ANT265 Glyphs: Ancient Maya Language and Culture  
Hours 3
This course covers the basics of ancient Maya writing and art. It explores myths, history, and tales of life at the courts of lords and nobles, who wrote and spoke in “divine glyphs”. The course begins with an overview of Maya glyphs and its historical and cultural contexts. After a section on the fundamentals of the script, each week will combine a discussion of the grammar of Hieroglyphic Mayan with lectures on a range of topics from tags and texts on drinking cups to parallels between Pre-Columbian, Colonial, and present-day Maya literatures. The lectures will be accompanied by practical exercises and quizzes. The course does not require any prior knowledge of Mayan languages or glyphs. No training in drawing or epigraphy is necessary.

ANT269 Field Archaeology  
Hours 6-12
In this course students and the supervising archaeologists work together as a research team on an archaeological excavation. Students learn basic excavation techniques and skills: how to identify, map, measure, recover, record, and process archaeological data. At the conclusion of the course, students will have excavation experience and insights into the archaeological research process.
ANT270 Intro to Biological Anthropology
N
Hours 4
An introduction to human evolution, biological variation, and adaptation, from the deep past to the present, with a special focus on the biocultural foundations of human nature. Students will become familiar with cutting edge evidence from the fossil record and molecular biology about our origins and prehistory, and how humans today respond to our widely varying physical and social environments.

Natural Science

ANT275 Race, Ethnicity Human, and Variation
Hours 3
Historical and contemporary perspectives on human biological diversity, including the concepts of race, ethnicity, adaptation, and some of the social implications of these views.

ANT311 Population, Health & Human Origin
Hours 3
Focuses on the relationships among human ecology, population growth, health and disease, and adaptation in modern and prehistoric societies. Explores the origins of infectious diseases, emphasizing the principles of epidemiology and evolution of pathogens.
Prerequisite(s): ANT 270

ANT312 Non-Human Primates
Hours 3
This course is an introductory survey of the world's living non-human primates. The focus is on the taxonomy, anatomy, behavior, ecology and cognition of our closest living relatives. It is intended both as a starting point for further coursework in primate behavior and as a survey course for non-science students.
Prerequisite(s): ANT 100 or ANT 270 or permission of the instructor.

ANT317 Anth-Modern Life
Hours 3
Application of anthropological theories and findings to selected issues and problems of living in complex industrialized societies. Offered according to demand.
Prerequisite(s): ANT 100 or ANT 102

ANT318 Ancient Cities and Empires
Hours 3
A comparative study of ancient cities and empires with examples from the Old and New Worlds.
Prerequisite(s): ANT 100 or ANT 103 or ANT 107

ANT319 Ancient New World Civilization
W
Hours 3
An introduction to the ancient civilizations of Mesoamerica and South America. Explores the development of economic and political institutions as well as hieroglyphic texts, art styles, and religious rites.
Prerequisite(s): ANT 107 or permission of the instructor.

ANT322 Anthropological Perspectives on Complementary/Alternative & Integrative Medicine
Hours 3
This course offers students a broad understanding of Complementary/Alternative (CAM) & Integrative Medicine (IM), including a basic appreciation of the multiple existing modalities and healthcare philosophies that draw together diverse healing traditions and perspectives on the person in innovative forms of clinical practice. We will not only learn the various existing definitions of "integration" in healthcare, but we will also examine the ways in which IM is being researched in medicine and beyond, and the implications of such research for both mainstream and alternative clinical practice. The course focuses especially on CAM/IM in the US, but also includes perspectives on CAM/IM as it has developed in Europe, Asia, and Africa. Students will thus develop an anthropological perspective on the socio-cultural, political, and economic context of multiple forms of CAM/IM.
Prerequisite(s): ANT 102

ANT368 Southeastern Archaeology
Hours 3
Origin and development of pre-Columbian and early historic cultures of the Southeast. Offered according to demand.
Prerequisite(s): ANT 107

ANT401 Theory and Method in Linguistic Anthropology
Hours 3
Scientific study of natural language, phonology, grammar, lexicon, meaning and the role of linguistics in anthropological research.
Prerequisite(s): ANT 210

ANT402 Gender, Ethnicity, and Health
W
Hours 3
Explores the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide, with attention to the long-term health effects of racism, sexism and poverty. Topics include reproductive and sexual health, obesity, body image, HIV/AIDS, mental illness, homelessness, and more.
Prerequisite(s): Either ANT 100 or ANT 102 & 3 additional hours, or consent of instructor.

Writing

ANT405 Culture, Mind, and Behavior
W
Hours 3
An examination of how culture influences individual thought, emotion, and behavior, and how culture is shaped by individual psychology. Topics include: models of culture; culture and visual perception; culture and personality; culture and mental health; as well as other topics.
Prerequisite(s): ANT 102

Writing

ANT408 Ancient Mexican Civilization
Hours 3
Survey of the origins and development of ancient civilizations in Mexico.
Prerequisite(s): ANT 107
ANT409 Ancient Maya Civilization  
Hours 3  
Ancient Maya civilizations in Mexico and Central America from the earliest inhabitants until the Spanish Conquest.  
Prerequisite(s): ANT 107

ANT410 Ethnography of Communication  
Hours 3  
Students in this course will learn to use the concepts and methods of ethnography of communication by developing and carrying out a research project on language and social interaction. You will learn how social interaction is organized, how to document and study it, and how to address such evidence to anthropological and applied problems. The goal for the course will be for each student to produce a report based on their research and for the work to be of sufficient substance, quality, and intellectual and/or applied significance, that it would be an ideal submission for the UA Undergraduate Research & Creativity Conference in the following semester. Students will finish the course with a critical and sophisticated understanding of how social interaction works in a variety of contexts.  
Prerequisite(s): ANT 401 or ANT 210 or permission from instructor

ANT411 Culture, Health, & Healing  
W  
Hours 3  
A cross-cultural overview of medical systems, and the health, illness, and healing experiences within them. Patients and healers will be studied through the lens of etiology, help seeking, diagnosis and treatment. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): Either ANT 100 or ANT 102 & 3 additional hours, or consent of instructor.  
Writing

ANT412 Peoples of Europe  
W  
Hours 3  
A review of selected aspects of the customs, social systems, and cultures of European societies. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): ANT 102  
Writing

ANT413 Peoples of Latin Amer  
W  
Hours 3  
A review of selected aspects of Latin American social systems and cultures. Topics include social structure, ethnicity, economics, material culture, gender roles, religion, sports, and political systems. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): Either ANT 100 or ANT 102 & 3 additional hours, or consent of instructor.  
Writing

ANT418 Dev Non-West Cultures  
Hours 3  
Theoretical and descriptive study of social change and development in non-Western societies. Major emphasis is placed on the effects of change on indigenous institutions. Both ethnographic and theoretical literature are examined.

ANT419 Myth, Ritual, And Magic  
W  
Hours 3  
Survey of the anthropological literature on religion, including such topics as myth, ritual, magic, witchcraft, totemism, shamanism, and trance states. Offered according to demand. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): ANT 102 or REL 100  
Writing

ANT421 Ethnography  
W  
Hours 3  
Ethnography is a hallmark of anthropology. It is at once a theoretical approach, set of methods, and style of writing. This course highlights ethnographic theory, methods for collecting ethnographic material, and techniques for writing about culture by reading exemplary texts, discussing key concepts, and practicing various methods. Each student will develop an ethnographic project that involves fieldwork, data analysis, and writing. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 12 hrs of Anthropology or permission from instructor  
Writing

ANT424 Cultural Resource Management  
Hours 3  
This course is an overview of Cultural Resource Management archaeology, including the historical background and development of the field, the legal and regulatory framework to CRM archaeology, the methodologies and techniques employed, and how the legislative requirements are implemented at the federal, state, and local levels. Students will learn how to craft and submit proposals, develop and manage budgets, design and implement fieldwork, conduct and supervise data analysis, and how to author and submit reports. Upon completion of this course, students will be prepared for entering a career in CRM archaeology.  
Prerequisite(s): ANT 107

ANT426 Archaeology of East North America  
Hours 3  
Examination of the origins and developments of pre-Columbian and early historic cultures of eastern North America.  
Prerequisite(s): ANT 107
ANT428 North American Archaeology

Hours 3

This course is an introduction to the archaeology of North America, from initial colonization of the continent by hunter-gatherers, to the arrival of European explorers. We begin with an examination of the theories and debates concerning the arrival of humans in the New World. The remaining majority of the course will be an in-depth examination of prehistoric archaeological developments in the major culture areas of North America.

Prerequisite(s): ANT 107 and 6 hrs of additional anthropology classes or permission of the instructor.

ANT431 Readings In Anth

Hours 1-3

Honors readings for seniors and graduate students. Offered with permission of instructor only. May be repeated for a maximum of 6 hours.

Prerequisite(s): 6 hours of ANT courses

ANT438 Anthropology of Art

Hours 3

The course views the art that societies past and present produce; it explores culture, creativity, and human beings' distinctive compulsion to make decorative objects.

Prerequisite(s): At least 6 hours of ANT courses, including ANT 102; OR permission of instructor

ANT439 Topics Anthropology Religion

Hours 3

An examination of contemporary issues and topics in the anthropology of religion.

Prerequisite(s): ANT 102

ANT440 Culture

W

Hours 3

A selective review of past and contemporary concepts, theories, and methodological approaches adopted by cultural anthropologists. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): ANT 102

Writing

ANT441 Documenting Justice I

Hours 3

Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Application and permission of instructor required.

Prerequisite(s): 6 hours of ANT courses

ANT442 Documenting Justice II

Hours 3

Continuation of ANT 441.

Prerequisite(s): ANT 441

ANT444 Anthropology and Cemeteries

W

Hours 3

Using approaches developed in the discipline of anthropology and, more particularly, in the subfield of archaeology, an exploration of the different ways in which local cemeteries can yield information on cultural, societal, and historical matters. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): ANT 107

ANT445 Historical Archaeology

Hours 3

This course is a survey of the method and theory of the discipline of historical archaeology. Focusing particularly on the historical archaeology of North America, this course reviews the development of the field, considers the related fields of colonial archaeology and the archaeology of the contemporary, and examines what distinguishes historical archaeology within the broader discipline.

Prerequisite(s): ANT 107

ANT446 Anthropology and Museums

W

Hours 3

Examines the historical connections between anthropology and natural history museums in the United States. Explores the present operation of such museums and develops exhibits based on collection studies.

Prerequisite(s): ANT 107

Writing

ANT447 Ancient Andean Civilizations

Hours 3

The Andes is a region of geographic and environmental extremes that witnessed the early rise of complex societies long before the Inca Empire. In this course, we examine the prehispanic cultures that resided in this region—from the peopling of South America to the aftermath of Spanish Conquest.

Prerequisite(s): ANT 103 or ANT 107
ANT465 Lithic Analysis
Hours 3
Introduction to the basics of analysis of stone tools, their manufacture, and their use by means of microscopic and macroscopic approaches.
Prerequisite(s): ANT 107

ANT466 Laboratory Methods Archaeology
Hours 3
This class is a "hands-on" course in archaeological laboratory methods and most useful for anthropology majors/minors. Students will read about different kinds of analyses, and then put theory into practice by classifying and analyzing prehistoric artifacts. Students will learn how to build interpretations of the past by using artifact assemblages, how to discriminate between reliable and less reliable information, and collaborate in group activities.
Prerequisite(s): ANT 103 or ANT 107

ANT468 Ceramics for the Archaeologist
Hours 3
Ceramics are the most ubiquitous and variable materials on many archaeological sites and, as such, they offer archaeologists a vast amount of information about the past. In this class, we approach ceramics from the perspective of research questions, and investigate how analytical techniques can help address them. The class also has a large practical component. Students will conduct analyses on collections and present their findings at the end of the class. This course is meant to provide a framework for developing hypotheses, methods and skills directly applicable to senior projects, MA theses, and Ph.D. dissertations.
Prerequisite(s): This is a course about archaeological research, therefore, it is restricted to undergraduates that have ceramic collections that they want to study as part of a senior or honor thesis. Undergraduate prerequisites for this course include 1) permission of the instructor, 2) 12 hours in anthropology, and 3) ANT 107 "Introduction to Archaeology

ANT471 Fossil Humans and Evolution
Hours 3
Survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution. Offered according to demand.
Prerequisite(s): ANT 270
Prerequisite(s) with concurrency: banner sync

ANT473 Human Osteology
Hours 4
Detailed introduction to human osteology emphasizing the identification of fragmentary remains and the criteria for determination of age, sex, and race. Two hours-lecture, two hours-laboratory. Offered according to demand.
Prerequisite(s): ANT 270, and a "C" average.

ANT474 Neuroanthropology
Hours 3
This course provides an introduction to evolutionary and biocultural approaches within anthropology to the central and peripheral nervous systems and their interconnections. Topics include the evolution of the brain; how culture and social structure shape the brain, its development, and its activity; and anthropological perspectives on connections among culture, behavior, brain, mind, and body.
Prerequisite(s): ANT 270 or BSC 300 or PY 413

ANT475 Biology, Culture, and Evolution
W
Hours 3
An introduction to the biocultural and evolutionary bases of human adaptability. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ANT 270
Writing

ANT476 Nutritional Anthropology
W
Hours 3
An introduction to anthropological inquiries in nutrition—including food habits, food systems, dietary variability, and food movements—from a cross-cultural perspective. Writing proficiency within the discipline is required for a passing grade in this course.
Prerequisite(s): ANT 102
Writing

ANT478 Anthropology of Human Development
Hours 3
Health culturally competent socialized adults and mature physical forms arise from a developmental process with evolutionary, biological, social and cultural dimensions. We survey child/human development from an anthropological perspective, considering interactions across levels of analysis from genes to culture.
Prerequisite(s): ANT 100 OR ANT 270

ANT479 Human Paleopathology
Hours 3
Course investigates skeletal pathology and trauma. Topics included: 1. Understanding disease processes, 2. Distinguishing accidental and violent trauma on bone, 3. Recognizing the following conditions in skeletal remains: congenital anomalies, circulatory disorders, joint diseases, infectious diseases, metabolic diseases, skeletal dysplasias, neoplastic conditions, diseases of the dentition and other conditions. Students will inventory, evaluate and analyze sets of human skeletal remains for pathology and trauma and complete final reports on those remains.
Prerequisite(s): ANT 270
ANT480 Advanced Evolutionary Studies & Big Questions
Hours 3
This course is the capstone to the Evolutionary Studies minor and should be taken in the final semester of the program. This course meets in conjunction with "Evolution for Everyone," the minor introductory course to the minor, to revisit the basic principles and application of evolutionary theory. These courses are team-taught by faculty from around the University and integrate the Alabama Lectures of Life's Evolution series, so they are likely to be different for you in both iterations. The course will review applications of evolutionary theory in the natural, social, and applied sciences and in the humanities. Additionally, you will conduct or complete a culminating project during the first half of the semester. During the second half of the semester, you will present this to the class and submit an article based on your project for publication in a peer-reviewed science journal.
Prerequisite(s): ANT 150; BSC 220; & ANT 270, PHL 380 OR GEO 102

ANT481 Anthropology is Elementary: Teaching Anthropology in Primary and Secondary Settings
Hours 3
This course is an introduction to teaching anthropology at the primary and secondary levels. It is a service-learning course, which means that all students will serve as instructors in a local anthropology course offered in the Tuscaloosa area. This course will expose students to applied anthropology through teaching the anthropological perspective via an activity-based four-subfield curriculum in conjunction with local elementary schools, after-school programs, or similar community partners. These programs will be taught by teams, and each student will be responsible for attending weekly course meetings, developing curricular material and implementing it in a classroom setting, and co-teaching with other students.
Prerequisite(s): ANT 270

ARB101 Elementary Arabic
FL
Hours 4
Students will learn the spoken and written language of Modern Standard Arabic. This course is intended for students with NO PRIOR KNOWLEDGE of Arabic. Native speakers or near native speakers of the language are NOT allowed to enroll. Any students with background knowledge of this language must see the program director BEFORE enrolling.
Foreign Language

ARB102 Elementary Arabic
FL
Hours 4
Course is a continuation of ARB 101. Students will learn the spoken and written language. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): ARB 101
Foreign Language

ARB201 Intermediate Arabic
Hours 3
Continuation of Arabic language on the intermediate level. Students who already have basics of Arabic speaking, writing and reading will develop their skills further. The class meets three hours per week. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): ARB 102

ARB202 Intermediate Arabic
Hours 3
Continuation of ARB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without the permission of the CLC director. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): ARB 201

ARB260 The Arabian Nights
Hours 3
This course introduces students to the Arabian Nights (One Thousand and One Nights) in translation. The Arabian Nights are a collection of stories framed in one story narrated by Shahrazad. The narratives are a mixed potion of magic, love, fear, and death. This course will discuss the history of the tales as well as the different translations, in addition to the socio-cultural concepts of antagonists and protagonist forces, such as magic spells and the Jinni. The students will cover a variety of tales: Sinbad, Ali Baba, and Aladdin. The course will also examine the Islamic context in the Arabian Nights. Taught in English.
Prerequisite(s): None

ARB301 Third-year Arabic
Hours 3
Study of contemporary Arabic language and culture. This course is intended for students who have already taken ARB 202. Native speakers or near native speakers of the language are NOT allowed to enroll. This course will emphasize the development of practical communicative ability in Arabic along with cultural knowledge of Arabic speaking countries.
Prerequisite(s): ARB 202

ARH151 Intro to Visual Arts
FA
Hours 3
Not applicable to the studio or art history majors or minors. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.
Fine Arts

ARH252 Survey of Art I
FA
Hours 3
Survey of major examples of painting, sculpture, and architecture from the prehistoric through the medieval periods.
Fine Arts
ARH253 Survey Of Art II  
**FA**  
Hours 3  
Survey of major examples of painting, sculpture, and architecture from the Renaissance through the modern periods.  
Fine Arts

ARH254 Survey Of Art III  
**FA**  
Hours 3  
Survey of major examples of painting, sculpture, and the applied arts of India, China, Korea, Japan, and Southeast Asia.  
Fine Arts

ARH291 Special Projects  
Hours 3  
This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.

ARH351 Ancient Art  
Hours 3  
A survey of the contributions of Egypt, Greece, and Rome to the development of Western architecture, sculpture, and painting.  
Prerequisite(s): ARH 252

ARH352 Early Christian Byzantine Art  
Hours 3  
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in the Early Christian West and the Byzantine Empire 312-1453 CE. Attention will be paid to major styles/developments with reference to relevant social, political, religious, historical and technical issues.  
Prerequisite(s): ARH 252

ARH358 Islamic Art and Architecture  
Hours 3  
A survey of the material and artistic products of the Islamic world, from the seventh to seventeenth centuries.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH360 Early Medieval Art  
Hours 3  
This course focuses on major monuments of painting, sculpture, and architecture, as well as wider visual culture, produced in Western Europe between 500-1150 CE. Beginning with backward glances at Roman traditions, special attention is focused on works of art representative of major styles/developments during the focus period with reference to relevant social, political, religious, historical and technical issues.  
Prerequisite(s): ARH 252

ARH361 Late Medieval Art  
**W**  
Hours 3  
This course examines the wealth of visual and material cultures of Europe and the broader Mediterranean from roughly 1200-1450. Materials considered will include sculpture, architecture, painting and manuscripts, as well as metal work and enamels, ivories, textiles, and portable objects from both European and non-Western cultures. Objects and monuments will be explored within their relevant social, political, religious, cultural and historical contexts.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH362 Medieval Art  
Hours 3  
This course examines the wealth of visual and material cultures of Europe and the broader Mediterranean from roughly 1000-1250. Materials considered will include sculpture, architecture, painting and manuscripts, as well as metal work and enamels, ivories, textiles, and portable objects from both European and non-Western cultures. Various course themes may include the natures of religious and devotional art; the intersections between faith and power; the influence of non-Western societies and artworks on Western medieval culture; and the various roles of art in medieval societies. Objects and monuments will be explored within their relevant social, political, religious, cultural and historical contexts.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH363 Masterpieces Of Spanish Art  
Hours 3  
Selected monuments of peninsular Spanish art from the prehistoric period to the contemporary period.

ARH365 Northern Renaissance Art  
Hours 3  
This course provides students with a survey of painting, sculpture and architecture produced in Northern Europe (France, Flanders, Germany, England) between 1350 and 1600, concentrating on knowledge of major monuments and artists. Beginning with backward glances at the fourteenth century, attention will be focused on developments and major themes important to study of the period (including relations between North and South, the status of the artist, and the impact of religious change on works of art), thus encouraging students to have a long-range view of the traditions behind the focus works.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor

ARH367 Art Patronage Florence  
Hours 3  
Survey of the art of Florence emphasizing the artists and the patrons, such as the religious orders, guilds, and private families who created the Renaissance style in painting, sculpture, and architecture.
**ARH368 Early Renaissance Art**  
Hours 3  
This course provides students with a survey of painting, sculpture and architecture during the early Italian Renaissance in major city centers, concentrating on knowledge of major monuments and artists. Attention will be focused on fourteenth-century traditions, fifteenth-century developments, and major themes important to study of the period (technical innovations, the inheritance and influence of antiquity, the status of the artist, religious and political symbolism, the requirements of patrons and the market, and the impact of social conditions and historical events).  
Prerequisite(s): ARH 253

**ARH369 Later Italian Renaissance Art**  
Hours 3  
This course provides students with a survey of painting, sculpture and architecture in the later Italian Renaissance (c. 1480-1580) in major city centers, concentrating on knowledge of major monuments and artists. Beginning with backward glances at the fifteenth century, attention will be focused on sixteenth-century developments and major themes important to study of the period (including Mannerism, the status of the artist, and the impact of religious change on works of art), thus encouraging students to have a long-range view of the traditions behind the focus works.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

**ARH371 Baroque Art South Europe**  
W  
Hours 3  
This course provides a survey of Southern Baroque painting, architecture, and sculpture, focusing primarily on Italian and Spanish art produced between 1600-1700. A variety of genres are addressed including Christian and mythological works, portraiture, still-life, and landscape. Issues considered include the impact of the Counter Reformation on artistic production; patronage; gender; classicism and naturalism; and the status of artists. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

**ARH373 Baroque Art North Europe**  
W  
Hours 3  
Survey of the art of 17th-century Belgium, Holland, and France.  
Prerequisite(s): 6 Hours of 200 Level Art History Classes

**ARH374 Art of the American South**  
Hours 3  
Painting, sculpture, and decorative arts from the colonial period to the twentieth century.  
Prerequisite(s): ARH 253

**ARH375 Nineteenth Century Art**  
Hours 3  
Painting and sculpture from the Neoclassical through the Post-Impressionist periods.  
Prerequisite(s): ARH 253

**ARH376 American Architecture**  
Hours 3  
American architecture from the colonial period to the 20th century.

**ARH377 American Art before 1815**  
W  
Hours 3  
A study of American Art and visual and material culture before 1815. Writing proficiency within this discipline is required for a passing grade in this course.  
Writing

**ARH378 Art of the African Diaspora**  
W  
Hours 3  
This course examines the artistic, material, and visual cultures of the African diaspora. Various geographic regions and historical periods will be covered. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

**ARH379 American Art: 1815-1880**  
W  
Hours 3  
A study of American Art and visual and material culture from the 1815 to 1880. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 6 Hours of ARH 200 level courses or by permission of the instructor

**ARH380 American Art: 1880-1945**  
Hours 3  
A study of American Art and visual and material culture from the 1880 to 1945.  
Prerequisite(s): ARH 253

**ARH381 Art Since World War II**  
Hours 3  
Modernist and postmodernist art and architecture from the mid-20th century to the present.  
Prerequisite(s): ARH 253

**ARH385 Early 20th Century Art**  
Hours 3  
Painting and sculpture from Impressionism to World War II.  
Prerequisite(s): ARH 253
ARH388 African American Art  
*W*  
Hours 3  
This class will focus on the creative production, contemporary reception, and critical interpretation of African American art from the colonial period to the present—an examination that intersects inexorably with studies in American art, material culture, Modernism, and post-colonialism (among a host of other fields and disciplines.) So, while visual representations of and by African Americans provide the content for this course, the broader methodological and theoretical issues they raise are applicable to images, objects, and structures from a variety of cultures and civilizations. Indeed, this course will engage at least three general themes central to art historical and visual cultural studies generally: 1. Cultural encounters within colonial contexts; 2. Constructions of “race” and “blackness” within the African diaspora; and 3. Conceptualizations of “Modernism” in 20th-21st centuries. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): ARH 253  
Writing

ARH400 Photographic Discourse  
*W*  
Hours 3  
Study of the history of photography, with a particular emphasis on photographic culture and reproduction. Writing proficiency (within this discipline) is required for a passing grade in this course.  
Prerequisite(s): 6 hours of 200-level and 3 hours of 300-level Art History courses. Total 9 hours Art History required.  
Writing

ARH402 Paul R. Jones Collection of American Art K-12 Program  
Hours 3  
This program is designed to offer graduate and undergraduate students the opportunity to conduct interdisciplinary community engagement activities via with the College of Arts and Sciences’s Paul R. Jones Collection of American Art (PRJCAA). Central to this course is student use of the PRJCAA to engage K-12 pupils and their teachers in the Tuscaloosa area. Students will learn about the PRJCAA including its content, mission, and goals. They will also begin investigating foundational readings in community engagement scholarship. To join this class, students must complete an application and interview process. This course does not meet at regularly scheduled class times during the day and much of course itself is conducted off-site at a school within the Tuscaloosa City School system. Students must undergo a mandatory (state required) background check before starting the program.  
Prerequisite(s): Permission of the Instructor

ARH455 Topics In Asian Art  
*W*  
Hours 3  
This seminar course will examine the rich and varied tradition of Buddhist art in Asia by focusing on the artistic products of India, China, Korea, Japan, Southeast Asia, Tibet, and Nepal. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 9 hours of 200 or 300 level Art History courses or permission of the instructor.  
Writing

ARH456 The Arts Of Buddhism  
Hours 3  
Major movements and styles inherent in the artistic products of India, China, Japan, Southeast Asia, Tibet, and Nepal. Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

ARH461 Topics in Medieval Art  
*W*  
Hours 3  
Selected topics in the art and architecture of the Middle Ages. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 9 hours of 200 or 300 level Art History courses or permission of the instructor  
Writing

ARH467 Topics Renaissance and Baroque Art  
*W*  
Hours 3  
This course provides students with an in-depth study of a specific issue or theme in Renaissance or Baroque Art. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 9 hours of 200 or 300 level Art History courses or permission of the instructor

ARH477 Topics in American Art  
*W*  
Hours 3  
Study of a selected theme in American art or architecture. May be repeated for a maximum of 9 hours. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): One of the following courses: ARH 374 or 375 or 376 or 377 or 378 or 379 or 380 or 388 or 389 or 390 and 6 additional hours of 200 or 300-level art history courses or permission of the instructor.

ARH481 Topics 20th Century Art  
*W*  
Hours 3  
This course surveys various aesthetic theories that have informed art production from the early 1980s to the present day. We will approach this wide array of material through attention to specific themes and/or various critically defined paradigms and apply these themes/paradigms to various subjects and media areas including institutional critique, popular culture, painting, sculpture, performance, installation, and video. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 9 hours of 200 or 300 level Art History courses or permission of the instructor.

Writing
ARH488 Topics in African American Art
W
Hours 3
In this course we will study the politics of representation (and the relationship between the image and ideology) in African American photography from the 1840s to the present. Aesthetics, gender, class, the impact of slavery, lynching, colonialism, neocolonialism, and globalization on the arts, as well as issues of memory, identity, subjectivity, historical “truth,” and race, will be explored in relation to African American photographers. We will consider the production, distribution, consumption, and archiving of these visual texts, as well as the materiality and mass replication of the photographic artifact, and examine various genres of visual texts, from the social documentary to portraiture to art photography. As we analyze the photography of Jules Lion, A.P. Bedou, Louis Agasiz, James VanDerZee, Gordon Parks, Carrie Mae Weems, and Latoya Ruby Frazier, among others, we will consider to what extent photographs comment upon or subvert racial identities and social hierarchies, what role the camera plays in protest movements, and whether one, as Audre Lorde asks, can ever dismantle the master’s house with the master’s tools. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): One of the following courses: ARH 374 or 375 or 376 or 377 or 378 or 380 or 388 and 6 additional hours of 200 or 300 level art history courses or permission of the instructor.

Writing

ARH490 Theories and Methods of Art History
W
Hours 3
This seminar examines the disciplinary foundations, historiography, and major issues of art history and explores the various methodological approaches used in the field. It investigates the ways in which the methods and theories of art history contribute to our understanding of history, aesthetics, and social practices through art objects. Students will explore the methodologies employed by art historians and evaluate – as scholars, readers, and writers – complex issues and a range of scholarship. Class time will center on verbal communications, including student-led discussions of assigned readings and oral presentations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): 15 hours of ARH courses or permission of the instructor

Writing

ARH491 Independent Studies
Hours 3
This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.
Prerequisite(s): Permission of the instructor is required.

ART110 Drawing I
Hours 3
Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

ART120 Drawing II
Continuation of Drawing I with emphasis on creative development of visual ideas using traditional and experimental techniques and media.
Prerequisite(s): ART 110

ART212 Ceramics
Completion of ART 110, ART 130, and ART 131 is recommended before taking this course. Exploration of ceramics media and processes with emphasis on the development of individual concepts.

ART214 Introduction to Graphic Design
An introduction to skills and techniques used in graphic design, problems in visual priorities, and development of idea generation skills.
Prerequisite(s): ART 130
Prerequisite(s) with concurrency: ART 210

ART216 Painting
An introductory course designed to strengthen the individual student's awareness of the history and techniques of the craft of painting while exposing the student to contemporary styles and ideas of painting.
Prerequisite(s): ART 110 or ART 130

ART218 Photography
Study of photography and photographic processes employed as creative media. Basic black-and-white processing and printing.
Prerequisite(s): ART 110 or ART 130

ART220 Printmaking
Survey of printmaking processes including intaglio, relief, screen print, and lithography.
Prerequisite(s): ART 110 or ART 130
ART222 Sculpture
Hours 3
Introduction to basic sculptural skills - including plaster, wood, aluminum casting, direct construction, and various mixed materials and techniques - with emphasis on craftsmanship, content, and idea development.
Prerequisite(s): ART 131 OR permission from the instructor

ART224 Introduction To Digital Art I
Hours 3
An introduction to computer-based art making, digital literacy, image processing, and digital printing.
Prerequisite(s): ART 110 or ART 130

ART302 Color Theory & Application
Hours 3
Course focuses on both analytical and intuitive understanding and application of color.
Prerequisite(s): ART 110 or ART 130

ART305 Aqueous Media
Hours 3
Course focuses on contemporary styles, concepts, and ideas regarding the use of wet media.
Prerequisite(s): ART 210 or ART 216 or ART 220

ART309 Navigating The Art World
W
Hours 3
The theory and history of the art institutions that shape artists’ careers and practical strategies for sustainable creative opportunities beyond the degree. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ART 110 and ART 210 and ART 130 and ART 131 Plus any two from the following list: ART 212 or ART 216 or ART 218 or ART 220 or ART 224 C- or higher required

Writing

ART310 Life Drawing
Hours 3
Individual exploration of figurative forms in a variety of drawing media and processes.
Prerequisite(s): ART 110, ART 130, and ART 210 or permission of the instructor.

ART311 Figurative Modeling
Hours 3
Course offers students a chance to explore figurative ceramic modeling and sculpting as it relates to representing a likeness. Topics will vary as course is repeated for credit.

ART312 Ceramics
Hours 3
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 212

ART313 Ceramics
Hours 3
Emphasis is on individual approaches to media, methods, and activities. Topics will vary as course is repeated for credit.
Prerequisite(s): ART 312

ART314 Typography
Hours 3
Further development of design methods and processes including typography, image processing, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224

ART315 Digital Layout and Production
Hours 3
Further development of design methods and processes including grids, page layout, visual communication, and digital design production.
Prerequisite(s): ART 214 or ART 224

ART316 Painting Composition
Hours 3
The applied study of pictorial manipulation through color and design principles.
Prerequisite(s): ART 216

ART317 Painting Concepts
Hours 3
A course designed to increase understanding of subject, meaning and context with the objective of making the transition between guided assignments and personal pursuits.
Prerequisite(s): ART 305 or 316, or by permission of the instructor.

ART318 Photography
Hours 3
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 218

ART319 Photography
Hours 3
Emphasis is on individual approaches to media, methods, and activities.
Prerequisite(s): ART 318

ART320 Printmaking: Intaglio & Relief
Hours 3
Further exploration of intaglio and relief processes, including a review of basic techniques, grounds, printing in color, printing multiple plates or blocks, and medium/large format printing. Assignments emphasize both technical and conceptual development. Topics will vary as course is repeated for credit.
Prerequisite(s): ART 220 or ART 210 or permission of the instructor
ART321 Printmaking: Lithography  
Hours 3  
This course explores traditional and experimental approaches to stone and plate lithography. Students will make a series of lithographs using a variety of approaches, matrices, and drawing materials. Assignments emphasize both technical and conceptual development. Topics will vary as course is repeated for credit.  
Prerequisite(s): ART 220 or ART 210 or permission of the instructor

ART322 Sculpture  
Hours 3  
Introduction to advanced sculptural thinking and problem solving with assignments geared toward the development of skills and abilities in working with a range of materials and techniques. Emphasis is focused on developing craftsmanship and content as applied to the making of objects.  
Prerequisite(s): ART 222

ART323 Sculpture  
Hours 3  
Continued development of 3-D thinking and technical skills through assignments addressing a variety of materials and processes, including physics in three dimensions, the illustration of intangible thoughts with physical objects, the relevance of self to sculpture, and an examination of personal aesthetic. Topics will vary as course is repeated for credit.  
Prerequisite(s): ART 131 and ART 222 and ART 322

ART324 Intermediate Digital Art  
Hours 3  
Projects allow for individual approaches and further development of digital art methods and processes.  
Prerequisite(s): ART 224

ART325 Printmaking: Monoprint/Monotype  
Hours 3  
This course examines printmaking through the lens of painting, including the vocabulary, materials, and techniques of painting with acrylics or oils. Students will use drawing and brushwork techniques to establish images on a variety of printable matrices, using a variety of printmaking processes. Assignments emphasize experimentation, collaboration, and exploring the creative process. Topics will vary as course is repeated for credit.  
Prerequisite(s): ART 220 or ART 216 or permission of the instructor

ART326 Video Art and Animation  
Hours 3  
Students will explore contemporary structure of narrative (and conversely the non-narrative) by creating, producing, and sharing stories using computer-based tools.  
Prerequisite(s): ART 224

ART328 Digital Phototography  
Hours 3  
This course will cover all aspects of digital photography from picture-making to output. There will be a survey of contemporary photo / digital artists to stimulate ideas, discussion and practice across numerous conceptual themes. Students will learn best practices for building and managing files that will drive top-quality output. All elements of traditional (scanning) and RAW workflow will be considered from acquisition through editing and output. Aesthetically, these skills will be put into practice in through the creation of refined and realized artworks. There will be critiques to facilitate the creative process. The semester will culminate in the production of a final portfolio.  
Prerequisite(s): ART 218 or ART 224

ART329 Printmaking: Photo-based Processes  
Hours 3  
This course examines printmaking through the lens of photography, including the vocabulary, materials, and techniques of the analog and digital photograph. Students will create work using a variety of light sensitive printmaking processes. Assignments emphasize both technical and conceptual development. Topics will vary as course is repeated for credit.  
Prerequisite(s): ART 220 or ART 218 or ART 224 or permission of the instructor

ART334 Branding & Identity Systems  
Hours 3  
An intermediate course developing design skills used in the creation and production of printed materials for visual communications with an emphasis on logos, identity systems, stationery sets, advertising, and promotional materials.  
Prerequisite(s): ART 214 and ART 314

ART335 Publication Design  
Hours 3  
An intermediate course developing design skills used in the production of printed materials for visual communications with an emphasis on both digital and printed newsletters, magazines, and annual reports.  
Prerequisite(s): ART 214, ART 314, and ART 315

ART338 Photographic Studio Lighting  
Hours 3  
The course will present essential skills in photographic studio lighting. Both natural and artificial light sources will be explored for producing aesthetically and conceptually engaging artworks. A wide range of applications will be explored including still life, portraiture, classic lighting problems, and open creative projects. Experimentation and improvisation is highly encouraged. Topics will reference both historical precedents and contemporary practices. The course will culminate with a portfolio of work.  
Prerequisite(s): ART 218 or ART 328 or permission of the instructor.
ART344 Concepts in Drawing
Hours 3
This course covers drawing at the intermediate level, including media, form, content, and theory. This course emphasizes personal direction. This course is designed to encourage student investigation into experimental drawing and contemporary art practices. All topics will be devoted to promoting individual student creativity, mastery of drawing means and techniques, and a further understanding of graphic concerns.
Prerequisite(s): ART 110, and ART 210 OR by permission of the instructor.

ART380 Art Museum Practices
Hours 3
An overview of art museum practices. Students acquire informed perspectives on the general operations, strategies, policies, and practices inherent in a small art museum.

ART406 Independent Studies
Hours 1-6
Students may make proposals for projects not taught in the regular curriculum. Proposals must be approved by a sponsoring faculty member and the department chairperson.

ART408 Special Projects
Hours 3-6
This course is designed to focus on a variety of topics in Studio Art that are not regularly offered within the Studio Arts curriculum. Topics will vary on media chosen form ceramics, digital media, drawing, painting, photography, printmaking, and sculpture. The course can be taken for a maximum of 6 hours.

ART410 Drawing Seminar
Hours 3
Self-directed studio practice overseen by the instructor. The student works toward creating a consistent and conceptually sound body of work that investigates contemporary and traditional definitions of drawing. Topics will vary as course is repeated for credit.
Prerequisite(s): ART 110, ART 210, ART 310, ART 344, and ART 444 or by permission of the instructor.

ART412 Ceramics
Hours 3-6
Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.
Prerequisite(s): ART 212 and ART 312 and ART 313

ART414 Graphic Design
Hours 3-6
Preparation of a graphic design portfolio. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 314 or ART 315

ART415 Graphic Design Practicum
Hours 3
Partnering agencies with design apprentices for hands-on training. Students are required to work no less than 10 hours per week.
Prerequisite(s): ART 414

ART416 Advanced Painting Seminar
Hours 3-6
Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 317

ART418 Advanced Photography
Hours 3
Emphasis on individual approaches to advanced photographic practice (analog or digital) resulting in a cohesive body of work suitable for exhibition. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 318 or ART 328 or permission of the instructor.

ART420 Printmaking
Hours 3-6
Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 320 and ART 321

ART422 Sculpture
Hours 3-6
Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.
Prerequisite(s): ART 222 and ART 322 and ART 323

ART424 Advanced Digital Media
Hours 3
Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.
Prerequisite(s): ART 324 or ART 326

ART428 Advanced Digital Photography
Hours 3
The course will expand upon digital skills for the photographer / digital artist presented in Art 328. This course presents technical, aesthetic and conceptual concerns at an advanced level. Content will be delivered through lecture, demonstrations, workshops, and experiential learning. The primary emphasis is on student-driven production of fully realized artworks. There will be regular critiques to facilitate the creative process. There will be a survey of contemporary photo / digital artists to stimulate ideas, discussion and practices across numerous conceptual themes. The semester will culminate in the production of a final portfolio and works presented for exhibition. Topics will vary as course is repeated for credit.
Prerequisite(s): ART 328

ART434 Illustration
Hours 3
Conceptual approaches, materials and techniques used to solve problems in illustration, emphasizing developing rendering skills in both traditional and digital mediums.
Prerequisite(s) with concurrency: ART 315
ART435 Web Design
Hours 3
An introduction to interactive applications. This course provides instruction in innovative, artistic design and development of visual communication skills related to interactive applications.
Prerequisite(s) with concurrency: ART 335

ART444 Advanced Concepts in Drawing
Hours 3
This course covers drawing at the advanced level, including media, form, content, and theory. This course emphasizes personal direction. This course is designed to encourage student investigation into experimental drawing and contemporary art practices. All topics will be devoted to promoting individual student creativity, mastery of drawing means and techniques, and a further understanding of graphic concerns.
Prerequisite(s): ART 110, ART 210, ART 310, ART344 or by permission of the instructor.

ART498 Studio Capstone
W
Hours 3
The Capstone is an interdisciplinary course that represents the culmination of the Studio Art program at The University! Of Alabama. Focusing on issues pertaining professional practices, this course is designed to assist students as they leave the university and prepare for the next step in their education and/or in their lives as professional artists and producers of culture. The course would focus on development of a written statement, production of promotional materials, refining of verbal skills in the discussion of work and various other skills in the development of professional practices. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Students must have permission from the Instructor and have completed a minimum of 60 hours in Art and Art History course work.
Writing

ART499 Senior Thesis
Hours 3,6
This course focuses on the development of an independent thesis project of a body of creative work in the area of the primary concentration and is restricted to BFA studio art majors with senior standing. The thesis must be publicly exhibited. The course can be taken for a maximum of 6 hours.
Prerequisite(s): Students must have permission from the Instructor and have completed a minimum of 60 hours in ART and/or ARH course work. Senior Thesis is designed to be taken during the final semester of study for the B.F.A. degree.

AS100 EC Continuous Enrollment
Hours 0
Used as a course designation for all students enrolled in Early College.

AS101 Freshman Compass Course: Arts & Sciences
FCMP
Hours 1-2
An orientation course designed to introduce students to the University and the College of Arts and Sciences and to assist in academic planning. Open to freshmen. May be repeated for a maximum of 4 hours. Pass/fail.
Freshman Compass

AS102 Compass: Arts & Sciences
FCMP
Hours 1
Prerequisite(s): AS 101
Freshman Compass

AS220 Medieval and Early Modern Studies (MEMES) Colloquium
Hours 3
This course introduces students to the multiple disciplines involved in the study of the medieval and early modern and the broad issues, methods, and areas of study in the field via readings and interactions with participating faculty through guest lectures and related activities.

AS299 Junior Seminar
Hours 1
Seminar for premedical, prelaw, and undecided juniors and seniors.

AY101 Intro To Astronomy
N
Hours 3
This course surveys the development of our current understanding of the Universe, including our Solar System, exoplanets, stars and stellar evolution (including white dwarfs, neutron stars, black holes, and supernovae), galaxies and cosmology (dark matter, dark energy, the Big Bang, the accelerating universe, supermassive black holes), and life in the Universe. NOTE: If the student plans to apply AY 101 toward satisfaction of the N requirement of the University Core Curriculum, AY 102 must also be taken.
Natural Science

AY102 Intro Astronomy Lab
N
Hours 1
This laboratory course involves indoor hands-on activities interpreting stellar spectra, stellar luminosity-temperature diagrams, celestial spheres, and astronomical imagery of the Moon, stars (including the Sun), star clusters, nebulae, galaxies, and galaxy clusters. NOTE: If the student plans to apply AY 102 toward satisfaction of the N requirement of the University Core Curriculum, AY 101 must also be taken.
Natural Science
AY155 Life in the Universe
Hours 3
This course is a survey of the new and rapidly-developing interdisciplinary science of astrobiology, accessible to the non-science major. Using the tools of astronomy, biology, geology, and chemistry, we will explore some of the biggest questions ever asked: How did life start on the Earth? Did life start elsewhere in our solar system, and elsewhere in our galaxy? Are we alone in the Universe? If there is life on other planets, how would we recognize it? Using the example of the history of life on Earth, we will explore locations in our solar system to gather evidence of whether life could have started, and could currently thrive in those locations. We will then broaden our scope to explore possibilities of life on planets orbiting other stars in our galaxy (and beyond) by summarizing what has been learned recently from surveys of planets orbiting other stars, in the Search for Extra Terrestrial Intelligence.

AY203 Observational Astronomy
N
Hours 2
In this course students learn to observe and record images and spectra of planets, stars, nebulae, and galaxies using portable telescopes on campus, the 16-inch telescope of the campus observatory, telescopes located in the darker skies at Moundville, and observatory telescopes in Arizona and Chile by internet control. Both indoor exercises and observing projects are undertaken. Students should normally have completed AY101 or a more advanced astronomy course; people concurrently enrolled in AY101 or AY204 can be admitted with the permission of the instructor NOTE: If the student plans to apply AY 203 toward satisfaction of the N requirement of the University Core Curriculum, AY 204 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145
Natural Science

AY204 Solar System Astronomy
N
Hours 3
This course provides (1) a discussion of orbital mechanics and of the interior structure, surface features, atmosphere, and origin of the sun, planets, and solar system; (2) an understanding of the detection techniques and current census of extrasolar planets; and (3) a discourse on the possibility of life on other planets. NOTE: If the student plans to apply AY 204 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145
Natural Science

AY206 Astron Beyond Solar Syst
N
Hours 3
This course: (1) connects the observed properties of stars (including our Sun) to their physical structure and evolution, up to their final endpoints as white dwarfs, neutron stars, or black holes; (2) surveys the properties of galaxies (including our Milky Way), their baryonic and dark matter content, their dynamics and evolution (star formation history, feedback, secular processes, mergers, growth of central supermassive black holes) and galaxy clustering; and (3) presents modern cosmology, including the Big Bang, the Cosmic Microwave Background, the accelerating expansion of the Universe, dark energy, inflation, and the formation of the lightest elements. NOTE: If the student plans to apply AY 206 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.
Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145
Natural Science

AY421 Theoretical Astrophysics
Hours 3
This course provides a broad introduction to the theoretical foundations of astrophysical phenomena, demonstrating how fundamental phenomenology arises from physical laws. Several broad domains of astrophysics are covered, including planetary and stellar orbits, radiation, radiative transfer, ionization, star and planet formation, stellar evolution, binary stars, special and general relativity (including black holes), galactic structure and dynamics (including dark matter), active galaxies, spacetime structure, formation of large scale matter structure, and cosmology (including the accelerating expansion of the Universe, dark energy, and Grand Unification of forces in the early Universe).
Prerequisite(s): PH 253

AY433 Techniques of Observational Astronomy
W
Hours 3
Students will learn to perform astronomical observations with eye, telescope, and modern detectors, using techniques of digital imaging, photometry, and spectroscopy. Wavelength ranges from radio to gamma-ray will be addressed. Students will gain familiarity with current software tools for data analysis, model fitting, and error analysis. Students will carry out and report on all components of observational research, from concept and data collection to analysis and presentation of conclusions. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): AY 204 or AY 206 PH 253 or permission of instructor Writing
AY450 Stars & Stellar Evolution
Hours 3
This course is intended to facilitate a fairly complete understanding of stars, including their structure, evolution (formation, stages of burning, end states), synthesis of elements, and the physical processes involved in each of these, as well as introduce the modern computational modeling techniques used to apply stellar physics to stars. For astronomy students, this course will provide the background necessary to understand the underlying principles of stellar processes and modelling as they are used both in ongoing research into stellar physics and phenomena and in support of other areas of astronomical research where stellar populations, products and processes are important. In a broader context, relevant for any physics student, this course will discuss how understanding the physical principles in fluid dynamics, high-density materials, heat transfer, plasma physics, nuclear structure, and nuclear processes are assembled into our modern understanding of how stellar objects behave, and how the study of stars pushes the frontier of understanding in these areas of physics.
Prerequisite(s): MATH 238

AY482 Selected Topics in Astronomy
Hours 1-3
This course may deal with any astronomy topic not covered by existing courses. The course title is added at the time the course is taught. Repeat credit is allowed for different course titles.

AY491 Independent Study I
Hours 1-3
No description available

AY492 Independent Study II
Hours 1-3
(refer to AY 491 Independent Study I).

BSC108 Intro Biology Non Maj I
N
Hours 4
Lecture and laboratory. Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120). Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.
Natural Science

BSC109 Intro Biology Non Maj II
N
Hours 4
Lecture and laboratory. Not open to biology majors or minors, or to pre-health professions students. Study of the physiology of living organisms with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. Usually offered fall, spring and summer. BSC 108 and BSC 109 may be taken in either order.
Natural Science

BSC114 Principles Of Biology I
N
Hours 3
For biology majors, biology minors and pre-health professions students. Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics evolution; and a survey of simple organisms, including viruses, bacteria, protista and fungi. Offered fall, spring and summer. NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.
Natural Science

BSC115 Laboratory Biology I
N
Hours 1
No description available
Prerequisite(s): BSC 114
Prerequisite(s) with concurrency: BSC 114

BSC116 Principles Biology II
N
Hours 3
For biology majors, biology minors, and pre-health professions students. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer. NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.
Prerequisite(s): BSC 114 and BSC 115 or BSC 118
Natural Science

BSC117 Biology II Laboratory
N
Hours 1
No description available
Prerequisite(s) with concurrency: BSC 116

BSC118 Honors General Biology I
N, UH
Hours 4
Lecture, discussion period, and laboratory. Thorough study of general biological principles, including the chemical basis of life, cellular biology, genetics, evolution, and a survey of prokaryotic organisms. Prerequisite(s): Honors attribute or ACT score of 28 or above
Natural Science, University Honors
BSC210 Honors Gen Biology II

Hours 4
Lecture, discussion period, and laboratory. Thorough study of the structure, function, physiology, and ecology of organisms, including higher and lower plants and vertebrates and invertebrate animals.
Prerequisite(s): BSC 114 and BSC 115 or BSC 118

Natural Science, University Honors

BSC215 Human Anatomy & Physiology I

Hours 4
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes cellular aspects; tissues and skin; the skeletal, muscular, nervous and endocrine systems; and the special senses of sight, hearing, taste, and smell.
Prerequisite(s): BSC 108 or BSC 109 or BSC 118 or BSC 120 or BSC 114 and BSC 115; or BSC 116 and BSC 117; or CH 102 or CH 105 or CH 118

BSC216 Human Anatomy & Physiology II

Hours 4
Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes the respiratory, circulatory, digestive, urinary, and reproductive systems.
Prerequisite(s): BSC 215

BSC220 Biol Evol

Hours 3
An introductory course on the evidence for evolution, mechanisms of evolutionary change, natural and sexual speciation, and common misconceptions about evolution.

BSC224 Microbiology And Man

Hours 4
For students majoring in nursing, education, and human environmental sciences. Lecture and laboratory. Introduction to microbiology with an emphasis on the relationships between man and protozoa, bacteria, viruses, and fungi. NOTE: Credit will not be granted for both BSC 242 and BSC 310.
Prerequisite(s): CH 101 or CH 104 or CH 117; and CH 102 or CH 105 or CH 118; and BSC 108 or BSC 109 or BSC 114 or BSC 118 or BSC 215 or BSC 216

BSC300 Cell Biology

Hours 3
The course is designed to provide an understanding of the molecular basis of cell function. Topics include metabolism, gene control, cell membranes, and cell-to-cell signaling.
Prerequisite(s): BSC 114 or BSC 118; and CH 102 or CH 118

BSC303 Field Zoology

Hours 3
A field-based course with lecture and lab combined. A survey of the taxonomy, ecology, and identification of local biota. Offered irregularly.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC310 Microbiology

Hours 3
Lecture. Survey course on microorganisms, including protozoa, bacteria, viruses, fungi, and algae. Credit will not be granted for both BSC 310 and BSC 242.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120
Prerequisite(s) with concurrency: CH 231

BSC311 Microbiology II

Hours 3
Fundamental course in bacteriology with emphasis on bacterial morphology, physiology, nutrition, and genetics.
Prerequisite(s): BSC 310 and CH 232

BSC312 Microbiology Lab

Hours 2
General microbiology laboratory to accompany BSC 310.
Prerequisite(s): BSC 310
Prerequisite(s) with concurrency: BSC 310

BSC313 Gen Bacteriology Lab

Hours 3
Lecture and laboratory. Course presents methods for the isolation, microscopic observation, enumeration, and determination of the biochemical characteristics of bacteria. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): BSC 312
Prerequisite(s) with concurrency: BSC 311
Writing

BSC314 Dendrology

Hours 3
This class will be a combination of lectures, field trips, and some inside laboratory plant identification exercises. The majority of the class will be conducted in natural areas surrounding Tuscaloosa. Most class time is dedicated to lab- and field-based activities.
Prerequisite(s): BSC 114 and BSC 115 or BSC 118 and BSC 116 and BSC 117 or BSC 120 or permission of the instructor.

BSC315 Genetics

Hours 3
Study of transmission and function of genes, gene organization, regulation of prokaryotic and eukaryotic genes, and applications of genetics.
Prerequisite(s): BSC 114 or BSC 118; and CH 101 or CH 117; and CH 102 or CH 118
BSC320 Freshwater Studies  
W
Hours 4
Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120
Writing

BSC325 Tropical Plant Diversity  
Hours 4
The purpose of this course is to familiarize students with the relevant aspects of tropical ecosystems and tropical plants.
Prerequisite(s): BSC 114 or BSC 118; and BSC 115; and BSC 116 or BSC 120; and BSC 117

BSC340 Principles of Natural Resources Conservation  
Hours 3
Introduces students to basic principles of natural resources conservation, including fundamental concepts in natural resource conservation and management. Examines humanity's past and present impacts on world environments; the influence of culture and the wants, needs, and desires of human beings will be integrated into the material. Discusses conservation of natural resources, including soil, water, air, forests, rangelands, energy, wildlife and fisheries, based on scientific principles.
Prerequisite(s): (BSC 114 and BSC 115 or BSC 118) OR (BSC 116 and BSC 117 or BSC 120)

BSC360 Plant Biology  
W
Hours 4
Lecture and laboratory. This course is designed to provide you with comprehensive exposure to the subject of plant biology. You will learn about the structure, function, systematics, evolution and ecological roles of plants including algae, mosses, liverworts, ferns, gymnosperms and angiosperms. If you are a person who has over-specialized in zoology or human biology, this course will expand your horizons significantly. As a study of producers (plants!), this course will examine these organisms that are essential to life because of their position at the energy pyramid and the food web, the negative effect on the environment and human health, and their commercial importance. At the end of this course students should take away an appreciation for the extensive diversity and roles the lower plants play in our ecosystem as well as our everyday life. The course will consist of lectures, laboratory experiments, group discussions and other activities relating to course material. Registration is required for both lecture and laboratory. WRITING PROFICIENCY WITHIN THIS DISCIPLINE IS REQUIRED FOR A PASSING GRADE IN THIS COURSE.
Prerequisite(s): BSC 114/115 and BSC 116/117, or BSC 118 and BSC 120
Writing

BSC371 Biology of Lower Plants  
W
Hours 4
4 Cr Hours. Lecture and Laboratory. This course is designed to provide you with comprehensive exposure to the subject of biology of lower plants. You will learn about the morphology, systematics, evolution, economic significance and ecological roles of the lower plants including cyanobacteria, algae, mosses, liverworts, ferns and fern allies with emphasis in their diversity in the southeastern USA. If you are a person who has over-specialized in zoology or human biology, this course will expand your horizons significantly. This course will examine these organisms that are essential to life because of their position at the energy pyramid and the food web, the negative effect on the environment and human health, and their commercial importance. At the end of this course students should take away an appreciation for the extensive diversity and roles the lower plants play in our ecosystem as well as our everyday life. The course will consist of lectures, laboratory experiments, group discussions and other activities relating to course material. Registration is required for both lecture and laboratory. WRITING PROFICIENCY WITHIN THIS DISCIPLINE IS REQUIRED FOR A PASSING GRADE IN THIS COURSE.
Prerequisite(s): BSC 114/115 and BSC 116/117, or BSC 118 and BSC 120
Writing

BSC373 Vertebrate Zoology  
Hours 4
Lecture and laboratory. Introductory course in the study of vertebrate zoology. Subjects included are principles of systematics and nomenclature, a survey of vertebrate taxa, the species concept, analysis of taxonomic characters, and an introduction to zoogeography and behavior.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC376 Invertebrate Zoology  
W
Hours 4
Lecture and laboratory. The classification, morphology, evolution, and ecology of invertebrate animals. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC380 Introduction to probability and statistics for biologists  
C
Hours 3
This course will provide an introduction to probability and statistical methods that are commonly used in the biological sciences. Practical, real-world examples from biology, ecology, and natural resources management will be used throughout the course. This course is aimed at 300-level students who intend to work with biological data, or anyone interested in statistics. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 or MATH 115 or MATH 125 or MATH 145 and CS 102
Computer Science
BSC385 Ecology and Evolution
Hours 3
This course introduces the student to two fundamental disciplines in biology – ecology and evolution. We introduce the student to the processes common to both disciplines and show how these have shaped the diversity and organization of life on this planet.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 145; and BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC386 General Ecology Lab
Hours 2
Offered irregularly.
Prerequisite(s): BSC 385
Prerequisite(s) with concurrency: BSC 385

BSC390 Honors Thesis Research
UH
Hours 1-8
Individual research conducted under the direction of an advisor and reported in an acceptable thesis. May be repeated over two to four semesters for a maximum 8 hours.
Prerequisite(s): BSC 315 and BSC 300 and BSC 385
University Honors

BSC391 Tutorial In Biol Science
Hours 1-2
Survey of the literature relating to a topic approved by the supervising faculty member; not to include laboratory or field research. A formal paper and/or examination is required. May be taken for one credit hour in each of two consecutive semesters, or for one or two credit hours in any one semester. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC393 Biology Outreach
W
Hours 2
Service learning. Survey of literature, design of active learning projects and teaching science concepts to elementary students to encourage and enrich young children’s interest in science. Writing proficiency within this discipline is required for a passing grade in this course. A maximum of 4 hours credit may be applied to the requirements for the biology or microbiology major.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120
Writing

BSC396 Resident Study
Hours 1-6
Prerequisite: Written approval from the department office prior to registration. Credit awarded is determined by the extent of the student's participation but may not exceed 6 hours.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC398 Undergraduate Research
Hours 1-4
Independent research or research participation. A maximum of 4 hours credit for BSC 398 may be applied to the requirements of the biology and microbiology majors; an additional 4 hours may be taken as elective credit and applied to the 120-hour requirement.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC399 Presentation of UG Research
W
Hours 2
Exploration of the process of presenting research results in different written formats including: abstract, poster, and full journal article. How the needs for clear presentation and response to peer review can inform the experimental process will also be covered.
Prerequisite(s): BSC 398
Writing

BSC400 Vertebrate Funct Morphol
Hours 4
Recommended for pre-health professions students. Lecture and laboratory. The comparative anatomy of the vertebrates with emphasis on functional features of several vertebrate species. Laboratory work deals mainly with identifying anatomical features of several vertebrate species.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; and BSC 116 and BSC 117; or BSC 120; and BSC 300

BSC403 Intro To Bsc Instruction
Hours 2
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, formal application, and a satisfactory interview.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; BSC 116 and BSC 117; or BSC 120

BSC404 Honors Intro To Bsc Instruction
UH
Hours 2
Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, Honors attribute, formal application, and a satisfactory interview.
Prerequisite(s): BSC 114 and BSC 115; or BSC 118; and BSC 116 and BSC 117; or BSC 120
University Honors

BSC407 Honors Seminar In Bsc
UH
Hours 1
Seminar and discussion. In the first semester, students present seminars based on the current literature. In the second semester, students present seminars derived from their honors theses. A maximum of 2 hours of credit for BSC 407 may be applied to the requirements of the biology or microbiology major. Offered according to demand.
Prerequisite(s): BSC 114 and BSC 115 or BSC 118; and BSC 116 and BSC 117; or BSC 120
University Honors
BSC409 Pre-Health Apprenticeship I  
Hours 2
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC410 Pre-Health Apprenticeship II  
Hours 2
This course provides a one semester apprenticeship at a local health care facility and is intended for all pre-health professional students. This course also has a service learning component. It does not count as applicable hours for the biology major or minor.

BSC412 Limnology  
Hours 3
Study of freshwater environments and the organisms that live in lakes, ponds, and streams. May be taken with BSC 413 or separately.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BSC415 Wetland Ecology  
Hours 3
An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat and plant zonation, and the role of plants in ecosystem function. Offered in alternate years.
Prerequisite(s): BSC 385

BSC417 Environmental Modeling  
Hours 3
An integrated study of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving.
Prerequisite(s): MATH 125 and CH 101 or CH 117; and CH 102 or CH 118 and BSC 385

BSC420 Principles Of Systematics  
Hours 4
Introduction to the principles, methods, and applications of systematics to analysis of morphological and molecular data. Includes introduction to biological classifications and nomenclature.
Prerequisite(s): BSC 360 or BSC 373 or BSC 376 or BSC 483

BSC422 Biology of Cancer  
Hours 3
This course is an introduction to the biological principals that explain the origins, development, pathology, and treatment of cancer. Students will work in teams assigned to particular types of cancer and will investigate what is known on various topics as related to that type of cancer.
Prerequisite(s): BSC 300 minimum grade of C- and BSC 315 minimum grade of C-

BSC424 Human Physiology  
Hours 3
Topics covered are the digestive, nervous, reproductive, immune, muscular, blood, cardiovascular, respiratory, urinary, and body-fluid systems. May be taken with BSC 425 or separately.
Prerequisite(s): BSC 300

BSC425 Human Physiology Lab  
Hours 2
Hands-on experience for understanding the principles and mechanisms of physiological processes of the human body. Major emphases on organ system performance, whole-body metabolism, and energetics.
Prerequisite(s): BSC 424
Prerequisite(s) with concurrency: BSC 424

BSC428 Biology Of Fishes  
W  
Hours 4
Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years.
Prerequisite(s): BSC 385
Writing

BSC431 Pathogenic Microbiology  
Hours 3
Study of microorganisms related to health and disease with emphasis on molecular mechanism of pathogenesis. Offered in alternate years.
Prerequisite(s): BSC 310

BSC432 Pathogenic Mibrobiol Lab  
Hours 3
Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered in alternate years.
Prerequisite(s): BSC 312 and BSC 431
Prerequisite(s) with concurrency: BSC 431

BSC434 Plant Systematics  
Hours 4
Lecture and laboratory. Characteristics and distribution of the major families of vascular plants as well as practice in the collection and identification of flowering plants. One weekend field trip required. Offered in alternate years.
Prerequisite(s): BSC 360
BSC435 Immunology
Hours 4
Thorough exploration of various aspects of modern immunology at the molecular and cellular levels.
Prerequisite(s): BSC 310

BSC436 Immunology Laboratory
W
Hours 3
Practical experience in modern immunological techniques. Offered in alternate years.
Prerequisite(s): BSC 435
Prerequisite(s) with concurrency: BSC 435

BSC439 Bch/Molecular Biology Lab
Hours 3
Students participate in the generation of new knowledge, thus the experiments vary. Techniques taught include agarose gel electrophoresis, cycle sequencing, sequence analysis, plasmid purification, restriction endonuclease digestion, gel purification of DNA, ligation, transformation, primer design, PCR, gene knockouts, protein fusions, and enzyme assays.
Prerequisite(s): BSC 450

BSC441 Developmental Biology
Hours 3
The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development.
Prerequisite(s): BSC 300 and BSC 315

BSC442 Integrated Genomics
Hours 4
An advanced discovery-based laboratory course designed to introduce the process of gene discovery and integrate modern genomics techniques and bioinformatic database usage.
Prerequisite(s): BSC 300 and BSC 315
Prerequisite(s) with concurrency: BSC 315

BSC444 General Virology
Hours 3
A survey of viruses, viral replication, and viral pathogenesis, including bacterial, animal, and plant viruses. The role of viruses in molecular biology is emphasized.
Prerequisite(s): BSC 300 or BSC 310

BSC448 Animal Behavior
W
Hours 3
This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology and economics. However there will be a historical undercurrent which will illustrate the roots of this truly interdisciplinary field.
Prerequisite(s): BSC 114; and BSC 115 or BSC 116 or BSC 118; and BSC 117 or BSC 120; and BSC 385

BSC449 Endocrinology
W
Hours 3
A detailed examination of the vertebrate endocrine system that uses a comparative approach to explore intricate relationships between the brain, endocrine glands, hormones and target organs.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300

BSC450 Fundamentals of Biochemistry
Hours 3
Prerequisite(s): BSC 300 minimum grade of C- and CH 232 minimum grade of C-

BSC451 Molecular Biology
Hours 3
A one-semester survey of molecular biology that emphasizes gene structure, function, and regulation of expression. Offered spring semester.
Prerequisite(s): BSC 311 or BSC 315; and BSC 450; and CH 462 or

BSC456 Microbial Ecology
Hours 3
Study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions.
Prerequisite(s): BSC 310 or BSC 385

BSC460 Human Developmental Biology
W
Hours 4
Lecture and laboratory. Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis, and functional development. Offered in alternate years.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300

Writing
BSC464 Biology Of Algae
W
Hours 4
Lecture and laboratory. Freshwater and marine algae: their structure,
development, taxonomy, and distribution.
Prerequisite(s): BSC 360 or BSC 310
Writing

BSC465 Prin Of Toxicology
Hours 3
The study of adverse effects of chemicals on living organisms and
methods for predicting the likelihood of such effects, including
descriptive, mechanistic, and regulatory aspects.
Prerequisite(s): BSC 300 and BSC 315

BSC469 Histology Of Vertebrates
Hours 4
Lecture and laboratory. Identification of tissue types and components,
histogenesis and function of tissues.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and
BSC 117 or BSC 120; and BSC 300

BSC470 Principles of Population Genetics
Hours 3
Population genetics is the study of how evolutionary forces (genetic drift,
natural selection, mutation, and gene flow) affect allele and genotype
frequencies in populations. Population genetics is a field with a rich
theoretical history that has allowed scientists to make predictions about
these evolutionary processes. With the advent of massive amounts of
genetic data in many species, it is now possible to test these predictions,
and a solid foundation in theory, its expectations, and assumptions is
crucial for interpreting results from genetic analyses. Students should
expect to learn how evolutionary forces acting on individuals affect
patterns of inheritance and ultimately drive the changes we see between
species.
Prerequisite(s): BSC 315 minimum grade of C- and BSC 385 minimum
grade of C- or permission of the instructor.

BSC471 Plant Physiology
W
Hours 3
A general survey for upper-level undergraduate students covering all
aspects of plant physiology including plant transport, translocation of
sugars in plants, plant biochemistry, plant metabolism, plant growth
and development, photosynthesis, nitrogen fixation, flowering and plant
hormones. The course will consist of lectures, in-class experiments,
group discussions, presentations and other activities relating to course
material.
Prerequisite(s): BSC 300 and BSC 360
Writing

BSC472 Mycology
W
Hours 4
Lecture and laboratory. Introduction to the fungi and their biology,
including aspects of their structure and function, taxonomy, genetics, and
ecology. Offered in alternate years.
Prerequisite(s): BSC 310
Writing

BSC473 Bioinformatics
W
Hours 3
Bioinformatics BSC 473/573 covers the tools and approaches necessary
to perform computational analysis of large datasets. We will focus on
analyzing high-throughput sequencing data although the tools we will
learn are applicable to a wide range of modern biological questions.
Specific topics include operating in a UNIX/bash shell environment,
scripting, genome assembly, alignment, and algorithms. BSC 473/573 is a
writing course and writing proficiency within this discipline is required for
a passing grade in this course.
Prerequisite(s): Grade of C- or higher in BSC 315 Genetics.
Writing

BSC475 General Entomology
W
Hours 4
Lecture and laboratory. Survey of the structure, function, classification,
and habits of insects.
Prerequisite(s): BSC 385
Writing

BSC476 Aquatic Insects
Hours 4
Lecture and laboratory. Survey of aquatic insects with emphasis on their
identification, life histories, and ecology. Offered in alternate years.
Prerequisite(s): BSC 385

BSC480 Plant Ecology
W
Hours 3
This course will examine the ecology of plants at different levels:individual, population and community.
Prerequisite(s): BSC 385 and BSC 360
Writing

BSC481 Foundations in Advanced Biostatistics with Applications to R
Hours 3
This course provides an overview to common statistical methods used in
biological research, using case studies from biology, ecology, and natural
resources management. The overarching objective of this course is to
give students the ability to use and effectively evaluate biological data.
We will demonstrate and conduct statistical analyses with an emphasis
on utilizing the statistical computing language, R, to apply statistical
concepts to biological and ecological data.
Prerequisite(s): BSC 380
BSC482 Conservation Biology
Hours 3
A thorough examination of the principles of conservation biology.
Prerequisite(s): BSC 385

BSC483 Evolution
W
Hours 3
Thorough investigation of evolution, including population genetics, molecular evolution, adaptation, and speciation. Offered in the spring semester.
Prerequisite(s): BSC 385 and BSC 315

Writing

BSC484 Aquatic Biology Seminar
Hours 1
Review and discussion of current topics in aquatic biology.
Prerequisite(s): BSC 320 and BSC 385; and BSC 412 or BSC 490

BSC485 Foundations in Forest Resources and Conservation
Hours 3
This course provides an introduction to the foundational ideas of forest resources and conservation. The course includes a history of the forestry profession and a variety of perspectives to develop students’ knowledge of forestry field and research methods. This course also helps students develop an understanding and appreciation of the diversity of forest resources both here in Alabama and globally.
Prerequisite(s): (BSC 114 minimum grade of C- or BSC 118 minimum grade of C-) and (BSC 116 minimum grade of C- or BSC 120 minimum grade of C-) and BSC 340 minimum grade of C- or BSC 385 minimum grade of C-

BSC487 Biogeography
Hours 3
Examination of the ecological and historical factors influencing the geographic distribution of plants and animals. Offered alternate years.
Prerequisite(s): BSC 385

BSC488 Research Seminars in Biology
Hours 1
This course is a one-hour weekly seminar where students will be exposed to current research being performed in the UA Department of Biological Sciences and at other institutions. Students will gain exposure and familiarity with research and current methodology being used in the fields of Ecology, Evolution and Systematics, Animal Behavior and Physiology, Microbiology and Cell and Molecular Biology.
Prerequisite(s): 6 hours or more of BSC or MS courses at the 300-400 levels.

BSC490 Stream Ecology
Hours 4
Lecture and laboratory. Thorough study of the structural (physical and biological) and functional attributes (energy flow, nutrient cycling, community structure) characteristic of stream and river ecosystems. Offered in alternate years.
Prerequisite(s): BSC 385

BSC493 Cell Cycle Regulation
W
Hours 3
In-depth review and discussion of recent scientific research literature dealing with mechanisms of eukaryotic cell cycle regulation and their significance in human cancers. Provides a foundation for further studies in the cell cycle field, which impacts many areas of cell, molecular, and developmental biology.
Prerequisite(s): BSC 300 minimum grade of C- and BSC 315 minimum grade of C- and BSC 450 minimum grade of C-

Writing

BSC496 Bioremediation
W
Hours 3
This course will explore how diverse organisms transform contaminants in soils and groundwater and how microbes/plants interact with environmental conditions present at bioremediation sites. There will be an emphasis on modern molecular methods developed to detect impacted sites, to monitor the effectiveness of bioremediation and/or the presence of contaminant degrading organisms, and the development and potential use of genetically modified organisms to remediate contaminants.
Prerequisite(s): BSC 310 minimum grade of C-

Writing

BSC497 Special Topics
Hours 1-4
A biological sciences topic not covered in other courses. The credit hours and format are determined as appropriate to the topic, and a course title is added to the schedule of classes. Offered according to demand.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120

BUI100 Convocation
Hours 1
Experiences to extend and complement the Blount Undergraduate Initiative foundation courses. May be repeated once for credit.

BUI101 Foundation: Origins
HU
Hours 3
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

Humanities

BUI102 Foundation: Possibilities
SB
Hours 3
A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on significant issues in the discourse on human possibilities.

Social and Behavioral Sciences
BU1301 Thematic Seminar  
Hours 3  
A text-centered examination of a more specific problem connected with core concepts of the first-year Foundations sequence and viewed through the methodological lens of one of the disciplines in the liberal arts. May be repeated for a maximum of 12 hours.

BU1401 Blount Capstone Worldviews  
Hours 3  
An examination of the "worldviews" of various epochs and the completion of a senior project. Students learn how individual beliefs about what is actual, what is possible, and what is desirable can be combined into a single unified understanding of the world, and how such a worldview has implications for what we should do and how we should live.

CC201 Introduction to Cyber Criminology  
Hours 3  
This course will introduce students to the traditional and contemporary forms of cyber crime, including hacking, insider threat, Internet child pornography use, cyber bullying, and cyber terrorism. Not only will students learn how computers can be either the target or tool in cyber crimes, this course will examine such crimes from both social and behavioral science perspectives, such as the personality traits associated with computer deviance. Finally, this course will provide a general overview of the digital forensic investigation as well as the analysis of digital evidence. No prior knowledge in any of these areas is required.

CC290 Special Topics in Cyber Crime  
Hours 3  
Examination of selected issues in cyber security in the United States and throughout the world.

CC301 Cyber Law and Policy  
Hours 3  
This course examines cyber criminology from a law and policy perspective, including its impact on Fourth and Fifth Amendment jurisprudence and the changing conceptions of privacy and identity. Topics will focus on the effects of cyber criminology on how criminal laws are conceptualized, enforced, and prosecuted. A central part of the course is a Moot Court component in which students will write a legal brief and argue their side of a cyber-related legal case in front of a panel of lawyers and law students acting as judges.

Prerequisite(s): CC 201

CC395 Internship  
Hours 1-9  
An opportunity for students to conduct career exploration and build a record of experience in the field of cyber criminology and digital forensics. To take this course students must obtain permission from the instructor for a specific number of hours and pass a background check.

Prerequisite(s): CC 201 A maximum of 3 hours can be used toward the minor. Instructor must approve the number of hours and the student cannot deviate from those hours without permission of instructor.

CC401 Law Enforcement in the Digital Age  
Hours 3  
This course examines the role that technology plays in modern-day policing, and provides students with a detailed overview of how the cyber, digital, and technological worlds have impacted policing historically. In the technology component of the course, students will comprehend computer basics, understanding computer and human networks, and identify the broad range of technologies used by police departments (e.g., less-than-lethal weapons, databases).

Prerequisite(s): CC 201

CC402 Digital Forensic Investigation  
Hours 3  
This course is a non-technical overview of the digital crime scene. This course aims to answer the question, “How do law enforcement officers investigate the digital crime scene?” This course will cover how digital forensic investigators identify, preserve, and extract digital evidence using different forensic tools and software. This course will also cover the various legal challenges in digital forensic investigations, including admissibility of evidence in courts, right to privacy, and the right to avoid self-incrimination.

Prerequisite(s): CC 201

CC490 Special Topics in Cyber Criminology  
Hours 3  
Examination of selected issues in cyber security in the United States and throughout the world. A maximum of six hours may be used toward the minor.

Prerequisite(s): CC 201

CD225 Intro Comm Disorders  
Hours 3  
Study of the types of speech, language, and hearing disorders; an introduction to the principles of rehabilitation of communicative disorders; and consideration of employment settings.

CD226 Lang & Speech Develop  
Hours 3  
Theory and practice of normal speech and language processes and sequences.

CD244 Phonetics  
Hours 3  
Study of the principles of phonetics and their application to speech. The International Phonetic Alphabet is used for study and transcription.

CD275 Anat Physio Sech Hear Mechnasm  
Hours 3  
Detailed study of the bases of speech and hearing, including anatomy, physiology, and neurology.

CD277 Preprofess Lab Experienc  
Hours 1  
Structured observational activities for students prior to their enrollment in a practicum course in speech-language pathology. Open to CD majors only.
CD308 Speech Disorders I
Hours 3
An introduction to articulation, phonology, & language disorders in children & adults as well as literacy & aural rehabilitation.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275

CD309 Speech Disorders II
Hours 3
An introduction to aphasia, traumatic brain injury, dementia, dysarthria, and apraxia.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275

CD350 Independent Study
Hours 1-3
Directed readings in an area of communicative disorders. Open to CD majors only.
Prerequisite(s): Minimum of 18 hours in CD courses and permission of the instructor.

CD351 Hearing Science
Hours 3
This course will provide the student with an understanding of the physical aspects of sound and how it is processed physiologically through the human auditory system. In addition, the student will become familiar with the anatomy of the hearing mechanism.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275

CD377 Clin Practicum I Speech
W
Hours 3
Supervised clinical practice in speech therapy with children. Open to CD majors only. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308 By application only.

Writing

CD378 Clinic Pract II Speech
Hours 1-3
Supervised clinical practice in speech therapy with children.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308 CD 377 By application only.

CD402 Psychology of Language
Hours 3
Language is a system of symbols that we use to communicate. The power of this system enables us to share the contents of our minds with other people who share that language. The evolution of language has profoundly shaped the lives of human beings, enabling our species to transmit knowledge from one generation to the next. This accumulated knowledge over time and space has allowed humans to proliferate as a species. New words are added to a language as new ideas emerge. The psychology of language is the study of the processes by which we as human beings generate grammatical sequences of linguistic symbols for comprehension by the listener.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275
Prerequisite(s) with concurrency: CD 277

CD411 Speech Science
Hours 3
A study of speech physiology, basic electronics, basic acoustics, speech acoustics, auditory perception, and neuroanatomy. Class work and laboratory sessions cover speech spectrographic analysis, basic sound measurement, and selected other instrumentation used in the speech and hearing science laboratory.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275

CD416 Multicultural Issues
Hours 3
A framework for systematically analyzing cultural similarities and differences will be provided and will serve as a model to examine cultural differences in the clinical setting.
Prerequisite(s): CD 225 and CD 226 and CD 244

CD443 Basic Audiology
Hours 3
Introduction to hearing evaluation, conservation, and impairment. Also considers the auditory system: anatomy, physiology, and pathology. Includes three laboratory sessions.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275

CD444 Aural Rehabilitation
Hours 3
The rehabilitation of hearing-impaired people primarily through auditory and visual training is addressed. Other sensory training, language development, speech production, and guidance are also considered. Open to CD majors only.
Prerequisite(s): Minimum overall GPA of 2.5 CD 225 CD 226 CD 244 CD 275

CD445 Audiology Lab Experience
Hours 1-3
Supervised laboratory or clinical experience in hearing evaluation and rehabilitation.
Prerequisite(s): Completion of the 200-and 300-level undergraduate CD classes as well as CD 443. By application only.

CD454 Fluency Disorders
Hours 3
The study of the nature, assessment, and treatment of stuttering. Emphasis on understanding the different onset and developmental theories and different approaches to treatment.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308

CD455 Voice Disorders
Hours 3
This course is designed to provide basic knowledge and skills needed for the evaluation and treatment of voiced language disorders.
Prerequisite(s): CD 225 CD 226 CD 244 CD 275 CD 308
CD462 Neuroscience for the Study of Communicative Disorders

Hours 3

An introductory course in neuroscience as it relates to the field of speech-language pathology. Students will be able to explain the anatomy and physiology of the brain, explain functions associated with structures in both the central and peripheral nervous systems, appreciate the nature and scope of neurogenic impairments, and understand brain abnormalities and neurological illnesses.

Prerequisite(s): CD 225, CD 226, CD 244, and CD 275

CH100 General Chemistry I - Plus

N

Hours 5

This course is designed for students with lower level math backgrounds to successfully complete the freshman level entry course in general chemistry, a foundational and core science survey course. This is a proposed 5 credit hr course for students who are taking, or meet the requirements to take, MATH 112 or 113 and who do not have placement into at least MATH 115. Analysis shows such students to be at high risk (~ 50%) for a DFW outcome in the traditional CH101 general chemistry course. Chemistry topic coverage for CH100 is identical to that of CH101 (ch 1-11, Tro textbook), but the course content is expanded to include additional development of basic science, chemistry, math, and problem solving skills. Additional lecture time is included for instruction in these areas, including added supervised problem solving and mentoring of these students to better prepare and train them for successful completion of the first semester of general chemistry. Student who receive credit for CH100 will qualify to subsequently take CH102. Students cannot receive credit for both CH 100 and CH 101.

Prerequisite(s): MATH 100 or MATH 112 or higher

Prerequisite(s) with concurrency: MATH 112 or MATH 113 or higher

Natural Science

CH101 General Chemistry

N

Hours 4

Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 101 and CH 100 or for both CH 101 and CH 117. A survey of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall, spring, and summer semesters.

Prerequisite(s): MATH 113 or (MATH 115 or MATH 125 or MATH 145 or MATH 126 or MATH 146 with concurrent enrollment allowed)

Natural Science

CH102 General Chemistry

N

Hours 4

Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 102 and CH 105 or both CH 102 and CH 118. Continuation of CH 100 or CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds. Usually offered in the fall, spring, and summer semesters.

Prerequisite(s): CH 100, CH 101, or CH 117 MATH 112 or 115

Prerequisite(s) with concurrency: MATH 113

Natural Science

CH104 Introductory Chemistry

N

Hours 4

Three lectures and one three-hour laboratory. The course is primarily for students in the Capstone College of Nursing and the College of Human Environmental Sciences; it may not be substituted for CH 101 except with departmental permission. Degree credit is not awarded for both CH 104 and CH 107. An introductory survey of the facts, principles, and theories of chemistry. Usually offered in the fall and summer semesters.

Natural Science

CH105 Introductory Org Chem

N

Hours 4

Three lectures and one three-hour laboratory. Not open to chemistry majors or minors or to students who have earned credit for CH 102. Degree credit is not awarded for both CH 105 and CH 102 or both CH 105 and CH 108. The course may not be substituted for CH 101 or CH 102. Brief survey of organic and biochemistry. Usually offered in the spring and summer semesters.

Prerequisite(s): CH 104 or CH 101 or CH 117

Natural Science

CH117 Honors General Chemistry

N, UH

Hours 4

Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 101. Degree credit is not awarded for both CH 117 and CH 101 or both CH 117 and CH 107. A comprehensive study of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall semester.

Natural Science, University Honors

CH118 Honors General Chemistry

N, UH

Hours 4

Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 101. Degree credit is not awarded for both CH 117 and CH 101 or both CH 117 and CH 107. A comprehensive study of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall semester.

Natural Science, University Honors

CH155 Forensic Science

Hours 3

This course will present an overview of forensic science. The course will focus on processing a crime scene as well as other topics used to connect a suspect to a given crime.
CH223 Quantitative Analysis  
Hours 4  
Three lectures and one three-hour laboratory. Comprehensive course covering classical methods of quantitative analysis as well as an introduction to electrochemical, spectroscopic and chromatographic methods. Usually offered in the fall, spring and summer semesters.  
Prerequisite(s): CH 102 or CH 118

CH231 Elem Organic Chemistry I  
Hours 3  
Three lectures. The course is an introduction to the theory and principles of organic chemistry. Topics include organic structure, syntheses, and analyses. Usually offered in the fall, spring, and summer semesters.  
Prerequisite(s): CH 102 or CH 118

CH232 Elem Organic Chem II  
Hours 3  
Three lectures. This course is a continuation of CH 231. Usually offered in the fall, spring, and summer semesters.  
Prerequisite(s): CH 231

CH237 Elem Organic Chem Lab  
Hours 2  
A one-hour lecture and five-hour laboratory. Designed for chemistry majors and chemistry minors to take concurrently with CH 232. Usually offered in the fall, spring, and summer sessions.  
Prerequisite(s): CH 231  
Prerequisite(s) with concurrency: CH 232

CH331 Honors Organic Chemistry 1  
Hours 3  
Honors Organic Chemistry will combine a modern in-depth insight into our chemical world with an evolutionary understanding of how the science of chemistry came to be what it is now, and how and where it influences our everyday lives. This course may better serve the interests of students majoring in Chemistry, Chemical Biology, Biological Sciences, Pharmacy, and Material and Engineering Sciences by the inclusion of traditional chemistry topics along with careful examination of the impact of chemistry on the world around us.  
Prerequisite(s): CH 102 or 118

University Honors

CH332 Honors Organic Chemistry 2  
Hours 3  
Honors Organic Chemistry will combine a modern in-depth insight into our chemical world with an evolutionary understanding of how the science of chemistry came to be what it is now, and how and where it influences our everyday lives. This course may better serve the interests of students majoring in Chemistry, Chemical Biology, Biological Sciences, Pharmacy, and Material and Engineering Sciences by the inclusion of traditional chemistry topics along with careful examination of the impact of chemistry on the world around us.  
Prerequisite(s): CH 231 or CH 331

University Honors

CH338 Elem Organic Chem Lab II  
W  
Hours 2  
A one-hour lecture and five-hour laboratory. The course is designed for chemistry majors. Usually offered in the fall semester. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): CH 232 and CH 237

Writing

CH340 Elem Physical Chem  
Hours 3  
Three lectures. This course is designed for students in the pre-health professional degree or pursuing the chemistry minor and is a study of the application of physical chemical concepts in biological systems. It is a.  
Prerequisite(s): CH 223 and PH 102 or PH 106 or PH 126

CH341 Physical Chemistry  
Hours 3  
Three lectures. The course is designed for chemistry majors and is a study of the structure and properties of matter with emphasis on theoretical principles and their mathematical interpretation. Usually offered in the fall semester.  
Prerequisite(s): CH 223 and MATH 227 or MATH 247  
Prerequisite(s) with concurrency: PH 106 or PH 126

CH342 Physical Chemistry  
Hours 3  
Three lectures. The course is designed for chemistry majors. Continuation of CH 341. Usually offered in the spring semester.  
Prerequisite(s): CH 341

CH343 Elem Phy Chem Lab  
Hours 1  
One three-hour laboratory. The course is designed to be taken concurrently with CH 340. Usually offered in the fall semester.  
Prerequisite(s) with concurrency: CH 340

CH348 Physical Chemistry Lab  
W  
Hours 2  
6 hours of laboratory. The course is designed to be taken concurrently with CH 342. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): CH 341  
Prerequisite(s) with concurrency: CH 342

Writing

CH396 Undergrad Research  
Hours 1-3  
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.
CH398 Undergrad Research
Hours 1-3
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH399 Undergrad Research
Hours 1-3
3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH405 Medicinal Chemistry
Hours 3
Fundamental considerations in drug design. Includes lead discovery, target identification and validation, pharmacodynamics, pharmacokinetics and metabolism, and formulations/drug delivery systems. Chemical modifications to improve efficacy and pharmacokinetics will be emphasized.
Prerequisite(s): CH 232 and either CH 461, BSC 300, or BSC 450

CH409 Organometallic Chemistry
Hours 3
Survey of the typical reactions of organotransition metal complexes with a focus on the fundamental mechanisms of these reactions and the application of organometallic catalysts.
Prerequisite(s): CH 341 or CH 401 or CH 413

CH410 Scientific Glassblowing
Hours 3
The course introduces students to the fundamentals of scientific glassblowing through hands-on training. Usually offered during Interim.

CH413 Inorganic Chemistry
Hours 4
Three lectures and one three-hour laboratory. Survey in areas of coordination, main-group, and organometallic chemistry. Laboratory experiments involve the preparation, purification, and identification of inorganic compounds. Usually offered in the fall semester.
Prerequisite(s): CH 338 and CH 341

CH424 Instrumental Analysis
W
Hours 4
Two lectures and one five-hour laboratory. The course covers the general operating principles of the commonly used analytical instruments with an emphasis on theory. Wherever possible, mathematical interpretations and derivations are given. Usually offered in the spring semester. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 223 and CH 341
Prerequisite(s) with concurrency: CH 348

CH432 Advanced Synthetic Organic Chemistry
Hours 3
This course will serve as a co-listed course with CH 532. The main goal of this course is to instruct advanced organic chemistry to undergraduates.
Prerequisite(s): CH 232

CH435 Inter Organic Chem
Hours 3
Three lectures. The course is designed to familiarize the student with mechanistic and synthetic organic chemistry. Usually offered in the fall semester.
Prerequisite(s): CH 232 and CH 342

CH437 Spectroscopic Techniques
Hours 3
This course is an introduction to the theory, application, and interpretation of four major types of structural analysis used by synthetic chemists: absorption, infrared, and nuclear magnetic resonance spectroscopy, as well as mass spectrometry. We will focus heavily on interpretation of spectra and application of these tools to address questions of structure and reactivity. While this is an organic chemistry class, examples of applications to organometallic and inorganic materials will also be presented.
Prerequisite(s): CH 232, 338, 342, and 348

CH461 Biochemistry I
Hours 3
Three lectures. Survey of the physical and chemical properties of the molecular components and methods of isolating and analyzing them. Usually offered in the fall semester.
Prerequisite(s): CH 223 and CH 232 and CH 237

CH462 Biochemistry II
Hours 3
Three lectures. Survey of the principal pathways of carbon, nitrogen, and energy metabolism and clinical and forensic chemistry. Usually offered in the spring semester.
Prerequisite(s): CH 461 or BSC 300

CH463 Biochem-Clin/Foren/Chem
W
Hours 3
One lecture and one six-hour laboratory. Biochemical techniques within the structure of a semester-long research project. Topics include protein purification and chromatography, spectroscopy, electrophoresis, kinetics, and DNA manipulation. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 461
Prerequisite(s) with concurrency: CH 462

Writing
CH466 Bioorganic Chemistry
Hours 3
This course will be divided into two main areas. We will begin with methods for studying enzyme reaction mechanisms. This section will include steady-state enzyme kinetics, derivation of rate equations, enzyme inhibition, isotope exchange methods, pH and viscosity effects, kinetic isotope effects, and site-directed mutagenesis. We will then utilize these methods in order to investigate the chemical mechanisms enzymes use to catalyze specific reactions (hydrolysis; group transfer; 1,1 hydrogen shift; 1,2 hydrogen shift; C-C bond formations; and redox chemistry). We will also cover the chemistry associated with several cofactors required by enzymes (flavins, thiamin pyrophosphate, tetrahydrofolate, etc).
Prerequisite(s): CH 461

CH473 The Study of Oenology
Hours 3
The course will focus on the complex chemical substances and chemical transformations responsible for the flavor, aroma, texture, & color variations in wine. Oenology exposes students to the process of making wine from growing grapes used in wine-making to fermentation of fruit sugars through yeast growth and accompanying chemical transformations.
Prerequisite(s): CH 232 and CH 338

CH474 Chemistry of Beer & Brewing
Hours 3
The instruction will comprise approximately 35 45-minute lecture periods and include visits to breweries in the Rheingau along with historical points of interest. Beyond a historical and cultural introduction, the course will focus on the complex chemical substances and chemical transformations responsible for the flavor, aroma, texture, & color variations beer. The Science and Chemistry of Beer & Brewing exposes students to the process of making beer from fermentation and flavoring of sweet mashes through yeast growth and accompanying chemical transformations. Participants will learn about the different types of grains and mashes used to make beer and will learn to evaluate beer, choose beer to compliment the chemistry and taste of foods and differentiate between many locally and internationally produced ales. There is a significant Biochemistry and Organic Chemistry involved in the malting, mashing and fermentation process and understanding the chemistry behind the flavor, aroma, and color of beer. Participants will learn to correlate the scientific underpinnings with the resultant beers and ales.
Prerequisite(s) with concurrency: CH 232 or CH 332, CH 237, and CH 338 with the instructor’s permission

CH475 Chemistry of Cooking
Hours 3
Chemistry as a discipline has its roots very early among the natural sciences. The ability to understand, manipulate and control substances in the environment is the central key to humankind’s flexible adaptation to surroundings otherwise hostile to human life. Cooking is a subset of that science which facilitates utilization of nutrients in foods and allows for preservation for food for longer periods. Additionally, cooking is a fun, and social activity. When you’re cooking, you’re a chemist! Every time you follow or modify a recipe you are experimenting with acids and bases, emulsions and suspensions, gels and foams. In your kitchen you denature proteins, crystallize compounds, react enzymes with substrates, and nurture desired microbial life while suppressing harmful microbes. And unlike in a laboratory, you can eat your experiments to verify your hypotheses.
Prerequisite(s): CH 332 or CH 232 or with the instructor’s consent.

CH491 Honors Research Sem
UH
Hours 1
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.
University Honors

CH492 Honors Research Sem
UH
Hours 1
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.
University Honors

CH493 Honors Research Sem
UH
Hours 1
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.
University Honors

CH494 Honors Research Sem
UH
Hours 1
The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.
University Honors

CH497 Intro To Research
Hours 1-3
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 348 and CH 342
CH498 Intro To Research
Hours 1-3
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348

CH499 Intro To Research
Hours 1-3
Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.
Prerequisite(s): CH 232 and CH 338 and CH 342 and CH 348

CHI101 Elementary Chinese
FL, HU
Hours 4
Contemporary Chinese Language (Mandarin): speaking, listening, reading and writing of simplified Chinese characters. The class meets five hours per week with an instructor. This course is intended for students with NO PRIOR KNOWLEDGE of Chinese. Native speakers or near native speakers of the language are NOT allowed to enroll. Any students with background knowledge of this language must see the program director before enrolling.
Foreign Language, Humanities

CHI102 Elementary Chinese
FL, HU
Hours 4
This is a continuation of Chinese language (Mandarin) on the elementary level. Course goals include stress on authentic reading and writing Chinese and a continuation of speaking with listening comprehension. The class meets five hours per week with an instructor. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): CHI 101
Foreign Language, Humanities

CHI201 Intermediate Chinese
HU
Hours 3
This is a continuation of Chinese language (Mandarin) on the intermediate level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): CHI 101 and CHI 102
Humanities

CHI202 Intermediate Chinese
HU
Hours 3
This is continuation of CHI 201. Emphasis on authentic Chinese reading and writing as well as culture. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): CHI 201
Humanities

CHI301 Third-year Chinese
Hours 3
Study of contemporary Chinese language and culture. Emphasis is on the development of reading and writing skills in cultural context. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): CHI 301

CHI302 Third-year Chinese
Hours 3
Continuation of CHI301. Study of contemporary Chinese language and culture. Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): CHI 301

CHI350 Traditional Chinese Lit Trans
Hours 3
Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.

CHI351 Modern Chinese Lit Trans
Hours 3
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

CHI353 Conversation/Composition
Hours 1-4
This course is intended for students of the intermediate level Chinese. Classes emphasize communicative aspects of socially correct conversational skill as well as reading and writing of authentic contemporary Chinese (Mandarin).
Prerequisite(s): CHI 202

CHI354 Conversation/Composition
Hours 1-4
Continuation of CHI353 with more emphasis on reading and writing of Chinese.
Prerequisite(s): CHI 353

CHI401 Advanced Reading and Writing Chinese I
Hours 3
Advanced level Chinese. Emphasis on reading and writing of modern Chinese (Mandarin). Native speakers or near native speakers of the language are NOT allowed to enroll.
Prerequisite(s): CHI 302
CHI 402 Advanced Reading and Writing Chinese II
Hours 3
Continuation of CHI 401 for advanced students. Offered according to demand.
Prerequisite(s): CHI 401

CIP 101 International Student Success: WIN at UA
Hours 2
This course is designed for new and transfer international students. It will help them WIN at UA – through welcoming, integrating, and navigating a new academic and cultural experience. The course covers topics such as academic resources, honor code, academic misconduct, an overview of the U.S. higher education system and UA in particular, U.S. classroom culture, the cultural adjustment cycle and culture shock, strategies for successful integration into U.S. campus life, and student services resources.
Prerequisite(s): None.

CIP 200 Introduction To Global Studies
HU
Hours 3
Designed as the first course to be taken in the Global Studies Certificate Program (15 hours) to introduce the undergraduate student to the cultural, economic, physical and political aspects of being a world citizen in the 21st century. The emphasis of this course is the contemporary rather than the historical and will set the philosophy for the students’ approach to the entire Global Studies Certificate curriculum, both core and emphasis-area courses.

Humanities

CIP 202 Introduction to Global Studies: Experiential Learning
HU
Hours 3
The increasing interconnectedness among people around the world is indisputable. As a society, we are increasingly aware of the way trends and processes reach beyond the confines of local, regional, and national boundaries. At UA’s Capstone International Center, we know that a 21st century citizen is certain to live a life that includes a variety of encounters with other cultures. It is our hope that you will take advantage of the many opportunities UA offers for intercultural engagement. And, this course has been designed to be one of those opportunities.
Prerequisite(s): None

Humanities

CIP 401 Out-Going Internation Exchange
Hours 12
No description available

CIP 402 Abroad Experience
Hours 0
Non-credit Abroad Experience.

CIP 403 Out-Going Internation Exchange
Hours 12
No description available

CIP 405 Out-Going Internation Exchange
Hours 12
No description available

CIP 413 Cip Out-Going Enrollment
Hours 3-18
CIP out-going independent/direct enrollment, Study abroad student, graduate or undergraduate, in-state or out-of-state student.

CIP 420 UA Semester in London
Hours 12-16
UA semester in London program run through New College and Capstone International Academic Programs. Students live on the University of Roehampton campus and earn 12-16 credit hours.

CJ 100 Intro Criminal Justice
SB
Hours 3
An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components. CJ 100 is a prerequisite for all 300- and 400-level criminal justice courses.

Social and Behavioral Sciences

CJ 220 Law Enforcement
Hours 3
Development of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies; and functions of police officers.

CJ 221 Private Security
Hours 3
Organization and management of the security function in industry, business, and government. Exploration of methods to protect personnel, facilities, and other major assets: loss prevention, control, and risk management.

CJ 223 Homeland Security
Hours 3
The course will offer an overview of the United States Department of Homeland Security from its initiation to present day, and the wide range of issues that the department influences, both policy and operational. Additionally, how the United States Department of Homeland Security interacts with state, local, and tribal governments, or law enforcement agencies.

CJ 225 Community Based Corrections
Hours 3
A general overview and introduction to the complex world of Community Based Corrections offering a history and development of punishment and implementation of alternative sanctions.
CJ230 Social Inequality in the Criminal Justice System  
Hours 3  
This course examines issues related to the oppression of people on the basis of their class, race, sex, gender, gender expression, ethnicity, sexual orientation, and physical or mental ability within the criminal justice system. It is designed to introduce the student to a range of issues of oppression and social and economic injustice pertinent to the field of criminology and how that affects offenders and others who interact with the criminal justice system.

CJ240 Juvenile Delinquency  
Hours 3  
Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.

CJ250 Judicial Process  
Hours 3  
A general overview of U.S. judicial systems, including recent innovations and future trends.

CJ270 Corrections  
Hours 3  

CJ280 Research Methods  
Hours 3  
Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problem of research and policy dimensions of both direct and applied approaches.
Prerequisite(s): CJ 100

CJ290 Special Topics in Criminal Justice  
Hours 3  
Examination of selected problems and issues in Criminal Justice. A maximum of six hours may be used toward the major.

CJ300 Survey Criminal Theories  
Hours 3  
Study of traditional and modern explanations of crime and criminality.
Prerequisite(s): CJ 100

CJ303 Race, Ethnicity, and Crime  
W  
Hours 3  
Study of the role played by racial minorities at each stage of the criminal justice system. Special attention is devoted to theories and measurement of minority crimes and race relations and to the treatment of minorities by law enforcement officers, courts, and corrections.
Prerequisite(s): CJ 100
Writing

CJ304 Gender and Crime  
W  
Hours 3  
This course discusses and analyzes the differential experiences of women in the criminal justice system, focusing mostly on women offenders and victims, but also on hegemonic masculinity's effect on crime. Special attention is given to feminist theoretical explanations of women's experiences in the criminal justice system. Writing proficiency within this discipline is required for a passing grade.
Prerequisite(s): CJ 100
Writing

CJ306 History of Crime and Justice  
W  
Hours 3  
Examination in historical sequence of the perspectives on and methods of crime control, from the traditional to the modern. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CJ 100
Writing

CJ330 Organization and Management Concepts in Criminal Justice  
Hours 3  
Formal organization theory and personnel administration, with emphasis on law enforcement agencies.
Prerequisite(s): CJ 100

CJ381 Statistics  
Hours 3  
Statistical methods in criminal justice, including central tendency and dispersion, tests of significance, and measures of association.
Prerequisite(s): CJ 100, and MATH 110 or MATH 112 or MATH 115 or MATH 125

CJ395 Internship  
Hours 1-12  
An opportunity for students to conduct career exploration and build a record of experience in the field.
Prerequisite(s): CJ 100 ***A maximum of 6 hours can be used toward the major.

CJ408 Gendered Justice and the Death Penalty  
Hours 3  
This course is designed to introduce the student to gender and justice issues related to women sentenced to death. Using a series of field trips, guest speakers, videos, and case study analyses will explore the historical, social, political, and legal issues of serving time in female prisons. Special emphasis will be placed on female offenders who have been sentenced to death and those sentenced to life without parole. Also, gendered-related issues comparing the incarceration experiences of female death row inmates to the incarceration experiences of male death row inmates will be examined.
CJ409 Women, Law, and Incarceration
Hours 3
The course examines the various issues that confront women who are incarcerated in state correctional institutions. Additionally, legal issues surrounding women’s pathways to crime and their incarceration experiences will be explored.
Prerequisite(s): CJ 100

CJ420 Seminar In Law Enforcement
Hours 3
Examines the philosophical basis of law enforcement and traces the development of the law enforcement function.
Prerequisite(s): CJ 220

CJ421 Forensic Science
Hours 3
This course provides student with instruction in the fundamentals of criminal investigation from a forensic science perspective.
Prerequisite(s): CJ 100

CJ422 Terrorism
Hours 3
An analysis of selected areas of terrorism and counter-terrorism, with an emphasis on parallels between terrorism and crime.
Prerequisite(s): CJ 100

CJ424 Hate Crimes
Hours 3
Adopting a multidisciplinary perspective, this course is designed to survey and critically evaluate various roots and consequences of, as well as contemporary issues involving, hate crimes. Topics are designed to expose the learner to various domains, facilitating a holistic perspective of hate crimes, as reflected by an integration of social science theory, empirical research, and criminal justice and legal practice.
Prerequisite(s): CJ 100

CJ425 Domestic Violence
Hours 3
The course examines violence in the context of domestic situations. The types and causes of acts of domestic violence are explored in historical and contemporary context. Various intervention strategies and preventive measures are examined.
Prerequisite(s): CJ 100

CJ426 White Collar Crime
Hours 3
This course provides a discussion of white-collar crime for the standpoint of criminological theory as well as criminal justice system policies, laws, and procedures.
Prerequisite(s): CJ 100

CJ430 Drugs, Crime, and Policy
Hours 3
This course examines the current state of drug use, abuse, and trafficking in the United States and throughout the world. It critically examines drug-related topics, such as the history of drug use, patterns associated with drug trafficking organizations and drug-related markets, and both domestic and international drug-related policies.
Prerequisite(s): CJ 100

CJ435 Global Perspectives on Crime and Justice
Hours 3
This course examines the variety of ways that criminal justice systems are organized and implemented around the world. Many times practitioners fail to recognize other approaches or points of focus that could improve the decision making process in particular and benefit the academic field in general. The social, cultural, and political background of different systems of justice will be introduced and discussed for an in-depth understanding.
Prerequisite(s): CJ 100

CJ440 Seminar in Juvenile Delinquency
Hours 3
This course examines the problem of juvenile delinquency, exploring the kinds of criminal and delinquent behavior that young people engage in, the various ways academics and professionals have understood and explained such delinquent behavior, and the key institutional responses to the problem. To do this, we will draw on a variety of sources, including archival materials, historical accounts, case law, quantitative studies, ethnographic accounts, journalistic accounts, sociological, psychological, and criminological theories of delinquent behavior, and more. We will pay particular attention to some of the controversies in the fields concerned with juvenile delinquency, as well as some of the central dilemmas faced by professionals who work with delinquents.
Prerequisite(s): CJ 100 CJ 240

CJ450 Seminar In Judicial Process
Hours 3
Examines the philosophical basis of the American legal system and traces the development of the judicial process.
Prerequisite(s): CJ 250

CJ460 Criminal Law I
Hours 3
Classification and analysis of selected areas of the substantive law of crimes, including basic principles of criminal law and crimes against the person and property.
Prerequisite(s): CJ 100

CJ461 Criminal Law II
Hours 3
General principles and theories of criminal procedure, including concepts of due process, arrest, search and seizure, wiretapping, lineups, and other recent developments.
Prerequisite(s): CJ 100
CL300 History of the Early Church
Hours 3
This course covers the main events, processes, figures and texts in the history of Christianity in Late Antiquity and the Middle Ages. The course begins with the introduction in which we will discuss the historical, social, and intellectual factors that influenced the development of early Christianity, its cultural connections with Judaism and Hellenism, and the appearance of the formative texts of Christianity. The subsequent lectures will be organized chronologically. The course also pays its due attention to the Byzantine Church and Eastern Christian traditions (Syriac, Coptic, Georgian, Armenian, Slavic, Arabic).
Prerequisite(s): None

CL323 Alexander the Great, Then & Now
Hours 3
We will study the journey and conquests of Alexander the Great as a historical and cultural event. His expedition took him from Greece, through the countries of the Middle and Near East, all the way to India. Many Western leaders (including Americans) have tried to repeat Alexander’s achievement with limited success. Our exploration will look at the reasons of subsequent failures, among other issues.

CL333 Greek Civilization: Myth, History, Culture
HU
Hours 3-6
Greece is in a particularly strategic spot, at the crossroads between East and West, North and South, controlling the passages from Europe to Asia and from the Black Sea to the Mediterranean. A variety of cultures have crossed paths in Greece throughout its long history— from Egyptian, Minoan, and Roman to Byzantine, Christian, Muslim, Ottoman, and Jewish, have all left there their cultural marks. On the other hand, a variety of conquerors have attempted to control, subdue or obliterate the Greeks and Greek culture, yet have come and gone, while Greece and the Greeks are still there, having inhabited their land continuously for the past 4.5 millennia. In the course of time, the Greeks have developed a civilization with tremendous inventions, discoveries and advancements that changed the world and gave the West its identity. The Greeks do not claim to have invented the wheel, but to have used it in order to give the world theater, history, medicine, philosophy, the Golden Mean, geometry, levers and pulley systems, the first analog computers and, above all, democracy. This course, therefore, taught in Greece, takes place at the most significant historical sites throughout the country. Instruction includes various three elements: (i) Students learn about the myths and legends associated with each site and study the geographical features of the area that gave rise to them; (ii) visit the archeological site and are introduced to the history of the area from the Archaic Period to the Modern Era, following the trail of material remains both at the site and the museum; and (iii) study the elements of the modern culture that derive from antiquity, uncovering the continuity of Greek civilization. In this way, students get an overview of Greek history and culture from prehistory to modernity, which brings to life not only myths and legends but also historic events that shaped Western civilization.
Prerequisite(s): None

Prerequisite(s) with concurrency: Students must enroll in CL 380-800 for 6 credit hours.

CL222 Greek Roman Mythology
HU
Hours 3
Introduction to classical mythology itself and the principal Greek and Roman myths. Offered each semester.

Humanities

CL234 Medical Terminology
HU
Hours 3
This course studies the Greek and Latin roots of medical terms, though knowing Greek or Latin is not a necessity. Students learn the meaning of a number of roots and, subsequently, become able to break down any medical term into its essential components (prefixes, suffixes and combining forms) and understand its meaning. Students also become able to relate any term to the body systems and understand how the biological nomenclature works. This course does not teach the medical practices described by the medical terms, but focuses on expanding student vocabulary not only in the medical field but also in related areas, as we learn derivatives used in other circumstances as well; an educated person is expected to be able to understand the medical language and communicate with his or her health providers. What makes this course invaluable is that the vocabulary students learn is often encountered on standardized tests such as GRE and MCAT.

Prerequisite(s): None

Humanities
CL350 Roman Religion

W

Hours 3

Survey of the rites and structure of ancient Roman cult with special emphasis on the Roman religious calendar and the clash between paganism and Christianity. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

CL365 Greece & Rome in Film

Hours 3

This course integrates literature, history, and film. Many of the films we watch attempt to reconstruct the ancient world to some degree of accuracy, while others are inspired by themes of ancient literature, but without regard to historic authenticity. Students read several primary sources to help them discern inauthentic elements or appreciate good interpretations in film.

CL380 Special Topics

Hours 3-6

Detailed investigations of specific aspects of Greco-Roman civilization such as ancient drama, women's lives, ancient religion, and technological achievements.

CL384 Ancient Egypt Near East

Hours 3

Introduction to Egypt's ancient history (from the pyramids to the Ptolemies), with emphasis on the civilization's contributions to Western heritage.

CL385 History Of Greece

Hours 3

This course surveys the history of Rome from its founding to its fall, beginning with the first settlements in what would later be the city center of Rome ca. 1000 BC, and ending with the collapse of the Empire in the West in AD 476.

CL386 History Of Rome

Hours 3

Introduction to the ancient history of Rome, with emphasis on the Republic from its Etruscan beginnings to the Second Punic War, and on the golden age of Caesar Augustus at the beginning of the Roman Empire.

CRL101 Elementary Critical Language I

Hours 1-6

This course is for students studying any beginning level of less commonly taught languages offered by the Critical Languages Center or abroad, and repeatable for credit with different languages. Supervised self-study system applied.

CRL102 Elem. Critical Language II

Hours 1-6

This course is equivalent to the second semester level of less commonly taught languages at the Critical Language Center or abroad, and repeatable with different languages. Supervised self-study system applied.

CRL201 Int. Critical Language I

Hours 1-6

This course is equivalent to the third semester level of a less commonly taught language at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages. Supervised self-study system applied.

CRL202 Int. Critical Languages II

Hours 1-6

This course is equivalent to the fourth semester level of less commonly taught languages at the Critical Languages Center or abroad, and repeatable for credit with different less commonly taught languages.

CRL301 3rd Year Critical Lang. I

Hours 1-6

This course is for students who have completed four semesters of a less commonly taught language and wish to pursue a higher level of language proficiency. Language proficiency must be evaluated as adequate for this level by the Critical Languages Center, and the consent of the CLC director is required.

Prerequisite(s): Permission of Instructor Required

CRL302 3rd Year Critical Lang. II

Hours 1-6

This course is a continuation of CRL 301, and for students wish to pursue a higher level of language proficiency. Language proficiency must be evaluated as adequate for this level by the Critical Languages Center before enrolling, and the consent of the CLC director is required.

Prerequisite(s): Permission of Instructor Required

CROA101 Elem Croatian Language

Hours 3

Contemporary Croatian: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering for permission. Not repeatable without permission of the CLC director. Offered each semester.

CROA102 Elem Croatian Language

Hours 3

Contemporary Croatian: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.
DN105 Freshman Seminar for Dance Majors
Hours 1
This course is open to first-year UA Dance majors and is designed to help students navigate college and introduce them to the field of dance as they progress through the major. The course provides an introduction to the UA dance faculty and their various specialties along with various topics related to the study of dance. It additionally includes information about resources and services at UA.

DN110 Intro To Dance Styles
Hours 2
Introduction to ballet, modern, and jazz dance through theory and practice at the beginning level.

DN121 Ballet Technique I-A
Hours 3
A studio course in classical ballet for first year dance majors or musical theatre majors.

DN122 Ballet Technique I-B
Hours 3
The development of theory and practice of classical ballet for first year dance majors or students with some previous experience in ballet.

DN142 World Dance
Hours 2
An introduction to dance movement as influenced by various cultures.

DN200 Special Topics
Hours 3
Investigation of dance theories and principles.

DN210 Dance Styles II
Hours 3
This course will include study of various dance styles at the intermediate level in order to prepare the musical theatre student for more advanced study. Students will be taught dance combinations from musical theatre repertoire in order to enhance technical skills while preparing for performance. The history and development of musical theatre dance will also be explored. Musical Theatre majors only or permission of the instructor.

DN211 Modern Dance II-A
Hours 3
A studio course in modern dance techniques at the intermediate level. Dance majors only.

DN212 Modern Dance II-B
Hours 3
A studio course in modern dance technique at the advanced intermediate level. Dance majors only.

DN221 Ballet Technique II-A
Hours 3
Development of classical ballet technique, and performance quality at the intermediate level for dance majors. Dance majors only.

DN222 Ballet Technique II-B
Hours 3
Development of the classical theory and practice of ballet, at the advanced intermediate level. Dance majors only.

DN251 Jazz Technique II-A
Hours 3
A studio course in jazz dance technique at the intermediate level. Dance majors only.

DN252 Jazz Technique II-B
Hours 3
A studio course in jazz dance technique at a more advanced intermediate level. Dance majors only.

DN255 Beginning Tap Dance
Hours 3
A course designed to introduce tap dance language and style while immersing the beginning/intermediate student in the execution of proper tap dance technique and performance. Warm-up and across the floor exercises as well as various combinations will be taught.
Prerequisite(s): Entrance into the Musical Theatre program or permission of instructor.

DN290 Dance Practicum
Hours 1
This course provides for participation in departmental dance productions in the form of working on dance shows in a capacity other than performing.

DN300 Special Topics
Hours 1-3
Study of dance theories and principles for performance, choreography or pedagogy. Permission of instructor.

DN301 Special Topics II
Hours 1-3
This course will focus on one area of dance such as technique, repertoire, composition or pedagogy in order to facilitate a more advanced analysis of that specific area.

DN305 Choreography & Performance Workshop 1
Hours 1-3
Choreography and Performance Workshop allows students to apply their knowledge of choreographic and performance practice in a faculty-mentored environment.

DN306 Choreography & Performance Workshop 2
Hours 1-3
Choreography and Performance workshop allows students to apply their knowledge of choreographic and performance practice in a faculty-mentored environment.

DN310 Dance Styles III
Hours 3
Continued exploration of musical theatre dance technique and style at a more advanced level. Students will learn movement covering a wide range of musical theatre eras and styles, with a focus on learning material quickly. For Musical Theatre majors. May be repeated for a maximum of 6 hours.
Prerequisite(s): DN 210
DN311 Modern Dance Technique III-A  
Hours 3  
Development of modern dance technique at the advanced level. Dance Majors or permission of instructor.  
Prerequisite(s): DN 211 or DN 212

DN312 Modern Dance Technique III-B  
Hours 3  
Continued development of advanced modern dance technique. Dance Majors or permission of instructor.  
Prerequisite(s): DN 211 or DN 212

DN321 Ballet Technique III-A  
Hours 3  
Development of ballet technique at the advanced level. Includes ladies' pointe work and men's technique.  
Prerequisite(s): DN221 or DN222

DN322 Ballet Technique III-B  
Hours 3  
Continued development of ballet technique at the advanced level. Includes ladies' pointe work and men's technique.  
Prerequisite(s): DN221 or DN222

DN323 Ballet Pointe Technique  
Hours 1-3  
Ballet pointe technique and preparation for classical and contemporary pointe repertoire.  
Prerequisite(s): DN 221 or DN 222

DN351 Jazz Technique III-A  
Hours 3  
Development of jazz dance technique at the advanced level. Dance Majors or permission of instructor.  
Prerequisite(s): DN 251 or DN 252

DN352 Jazz Technique III-B  
Hours 3  
Continued development of jazz dance technique at the advanced level. Dance Majors or permission of instructor.  
Prerequisite(s): DN 251 or DN 252

DN380 Independent Study In Dance  
Hours 3  
No description available

DN381 Indep Study In Dance  
Hours 3  
No description available

DN400 Special Topics  
Hours 3  
Prepare dancers for a professional career in dance performance through the rehearsal process of learning and performing, ballet, modern and jazz dance repertoire.

DN401 Performance Studies I  
Hours 1-3  
Performance skills and practice for dance.

DN402 Performance Studies II  
Hours 1-3  
Additional performance skills and practice for dance.

DN410 Advanced Tap Technique  
Hours 3  
An advanced course focusing on tap dance language and the execution of advanced tap technique.  
Prerequisite(s): DN 210 and DN 310

DN411 Modern Dance Technique IV-A  
Hours 3  
Development of modern dance technique at the advanced level, preparing the student for professional work.  
Prerequisite(s): DN 311 or DN 312

DN412 Modern Dance Technique IV-B  
Hours 3  
Continued development of advanced modern dance technique, preparing the student for professional work.  
Prerequisite(s): DN 311 or DN 312

DN421 Ballet Technique IV-A  
Hours 3  
Advanced ballet technique including study of ballet repertoire in preparation for professional work. For dance majors.  
Prerequisite(s): DN 321 or DN 322

DN422 Ballet Technique IV-B  
Hours 3  
Continued development of advanced ballet technique and repertoire in preparation for professional work. For dance majors.  
Prerequisite(s): DN 321 or DN 322

DN451 Jazz Technique IV-A  
Hours 3  
Development of jazz dance technique at the advanced/pre-professional level. Will focus on elements of technique and style for concert, commercial, and musical theatre jazz.  
Prerequisite(s): DN 351 or DN 352

DN452 Jazz Technique IV-B  
Hours 3  
Continued development of jazz dance technique at the advanced/pre-professional level. Special attention will be given to developing performance qualities.  
Prerequisite(s): DN 351 or DN 352

DNCA240 Choreography I  
Hours 3  
Basic exploration of the rhythmic and spatial elements in the development of movement phrases and choreographic dance studies. Dance Majors only or permission of instructor.
DNCA265 Introduction to Anatomy and Kinesiology For Dance  
Hours 3  
Lecture/studio course covering the basics of the musculoskeletal system and kinesiology with an emphasis on dance. Dance majors only.  

DNCA302 Special Topics in Dance  
Hours 1-3  
This course will investigate the possibilities for synthesizing elements of dance technique and dance academics to facilitate success in the professional dance industry.  

DNCA320 Composition, Movement, and the Camera  
Hours 3  
This is a composition course for the camera with an emphasis on capturing human movement. The course begins with instruction in basic camera and digital editing skills. In a series of studies for the camera that culminate in a final project, students develop a compositional vocabulary, taking into consideration, choreography, sound, and visual composition. Students’ compositional understanding will be expanded by video-viewing, reading, and discussion. Students with an interest in dance, visual art, theatre, experimental filmmaking, and music are encouraged to enroll.  

DNCA340 Choreography II  
Hours 3  
Exploration in more complex choreographic forms and compositions. Dance majors only.  
Prerequisite(s): DNCA 240 or DN 240  

DNCA350 Creative Processes in Dance  
Hours 1-3  
This course explores creative processes in various dance styles. Students will research their chosen subject matter with a public presentation as the culmination of the class. Dance Majors or permission of the instructor only.  
Prerequisite(s): DNCA240  

DNCA351 Creative Processes in Dance: Performance and Promotions  
Hours 1-3  
This course explores creative processes and performance in various dance styles. Students will research their chosen subject matter with a public presentation as the culmination of the class. The class promotes unique staging and performance opportunities by allowing students to develop work to be presented off campus, with the possibility of presentation internationally. Students learn about creating press releases, an on-line presence, and video/photo promos for concert promotions. Classes will involve heavy faculty feedback throughout the semester as students develop work for production.  
Prerequisite(s): DNCA 350 or permission of the instructor  

DNCA403 Approach Dance Instructn  
Hours 3  
This course is a service-learning course developing techniques for teaching movement concepts. This course includes a practicum component teaching dance to elementary students in the public schools. Dance Majors or permission of the instructor.  
Prerequisite(s): DNCA 265 or DN 265  

DNCA420 Dance and the Camera  
Hours 3  
Dance and the Camera will introduce students to the videographic, choreographic, and editing skills involved in making dances for the screen. Students will work both in front of and behind the camera to create studies and final projects. Through lecture, reading, video-viewing and discussions, the class will also explore the history of screendance and its current trends. Dance majors or permission of instructor.  
Prerequisite(s): DNCA 240 Choreography I  

DNCA440 Choreography III  
Hours 3  
A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.  
Prerequisite(s): DNCA 340 or DN 340; and TH 324  

DNCA470 History Of Dance I  
W  
Hours 3  
The history of dance from pre-classic, romantic, classical and early modern ballet. Dance majors only. Writing proficiency within this discipline is required for a passing grade in this course.  
Writing  

DNCA471 History of Dance II  
W  
Hours 3  
The history of dance with an emphasis on 20th century and contemporary dance styles. Writing proficiency within this discipline is required for a passing grade in this course. Dance Majors only.  
Prerequisite(s): DNCA 470  
Writing  

DUT102 Elementary Dutch  
Hours 3  
Contemporary Dutch: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director.  
Prerequisite(s): DUT 101  

EN101 English Composition  
FC  
Hours 3  
Introduction to college-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 101 does not apply as credit to the English major or minor.  
Freshmen Composition
EN102 English Composition
*FC*

Intermediate college-level writing covering the principles of argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 102 does not apply as credit to the English major or minor. Prerequisite(s): EN 101.

Prerequisite(s): EN 101
Freshmen Composition

EN103 Advanced English Composition
*FC, UH*

Hours 3

This is an accelerated freshman composition course that is open to students with minimum scores of 28 ACT Composite or 1350 SAT, or minimum ACT English scores of 30 or SAT verbal scores of 730. With the appropriate qualifying scores and the completion of EN 103 with a grade of C- or higher, placement credit is awarded for EN 101 and the general education requirement for freshman composition is completed. Covers argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Course themes are determined by each instructor. Grades are reported as A, B, C, or NC (No Credit). A grade of C- is required as a prerequisite for advancing to another English course at The University of Alabama. EN 103 does not apply as credit to the English major or minor.

Prerequisite(s): 28 ACT composite or 1350 SAT OR ACT English score of 30 or SAT verbal score of 730
Freshmen Composition, University Honors

EN104 English Composition BUI
*FC, UH*

Hours 3

For students in Blount Undergraduate Initiative. Covers argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as “A,” “B,” “C,” or “NC” (“No Credit”). This course substitutes for either EN 103 Advanced Composition or EN 101 Freshman Composition I. Students who qualify for EN 103 (see EN 103 description above) are awarded an additional 3 hours of composition placement credit with a grade of “pass” upon successful completion of EN 104. Other students receive the same credit if they earn a grade of “A-” or higher. Students who earn a grade lower than “A-” are required to take three additional hours of freshman composition, generally EN 102. Students who have credit for EN 101 and EN 102 either from another institution or through AP or IB placement do not take EN 104. EN 104 does not apply as credit to the English major or minor.

Freshmen Composition, University Honors

EN120 English Comp I Non-Native Spkr
*FC*

Hours 3

The first in a two-course sequence, EN 120 introduces non-native English speakers to college-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered every semester.

Prerequisite(s): EN 120
Freshmen Composition

EN121 English Comp II Non-Native Spkr
*FC*

Hours 3

The second course in UA's first-year sequence in composition, EN 121 introduces non-native English speakers to the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Special attention will be paid to the unique linguistic and cultural needs of students whose native language is not English. Offered each semester.

Prerequisite(s): EN 120
Freshmen Composition

EN155 Freshman Seminar

Hours 3

College-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. This course is for students who have credit for EN 101 and are participating in the Women in STEM LLC.

EN200 The Living Writer: Introduction to Creative Writing
*FA*

Hours 3

Introduction to the craft of imaginative writing, the landscape of contemporary literature, and the writer as artist. Students will engage UA's literary arts culture and regularly attend readings and author events.

Prerequisite(s): EN 101 or EN 120
Prerequisite(s) with concurrency: EN 102 or EN 103 or EN 104 or EN 121
Fine Arts

EN201 How English Works
*HU*

Hours 3

This course will introduce students to the wide-ranging discipline of linguistics that incorporates aspects of both the humanities and the social sciences. Students will explore the elements from which languages are composed, examine differences across languages, and see how linguistic data and methods are brought to bear on real-world issues in the realms of psychology, literary studies, sociology, education, and the judicial system. Language will be presented as a constantly changing phenomenon that is embedded in culture and steeped in ideology.

Prerequisite(s): EN 101 and EN 102, or EN 103
Humanities
EN205 English Literature I  
_HU, L_  
Hours 3  
Survey of English literature from the Anglo-Saxon period to 1800, including, Chaucer, Shakespeare, and Milton.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN206 English Literature II  
_HU, L_  
Hours 3  
Survey of English literature from 1800 to the present, including, works from the Romantic, Victorian, and Modern eras.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN207 World Literature I  
_HU, L_  
Hours 3  
Survey of world literature from the Classical period to the Renaissance.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN208 World Literature II  
_HU, L_  
Hours 3  
Survey of world literature from the Enlightenment to the Modern period.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN209 American Literature  
_HU, L_  
Hours 3  
Survey of American literature from its beginnings to 1865, including, work by Poe, Thoreau, Emerson, Melville, and Whitman, among others.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN210 American Literature II  
_HU, L_  
Hours 3  
Survey of American literature from 1865 to the present, including, work by Dickinson, Twain, Hemingway, Faulkner, and Morrison.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN215 Honors English Literature I  
_HU, L, UH_  
Hours 3  
Honors section of EN 205.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature, University Honors  

EN216 Honors English Literature II  
_HU, L, UH_  
Hours 3  
Honors section of EN 206.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature, University Honors  

EN219 Honors American Literature  
_HU, L, UH_  
Hours 3  
Honors section of EN 209.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature, University Honors  

EN220 Honors American Literature II  
_HU, L, UH_  
Hours 3  
Honors section of EN 210.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature, University Honors  

EN249 African American Literature I  
_HU, L_  
Hours 3  
Survey of African American literature from its earliest expressions to 1935. The course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature  

EN250 African American Literature II  
_HU, L_  
Hours 3  
Survey of African American literature from 1935 to the present. The course material includes poetry, drama, autobiography, fiction, and nonfiction.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 120 and EN 121  
Humanities, Literature
EN300 Intro To English Studies  
Hours 3  
An introduction for English majors to the methods employed in the discipline of English. Students will be exposed to the fundamental issues of critical reading, interpretation, and writing, especially to the use of critical methods in the study of primary texts. Readings will include a selection of texts in the traditional categories of poetry, drama, and prose, as well as the genre of the critical essay. There may also be investigations into other genres and media.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN301 Fiction Tour  
Hours 3  
Study of basic principles of composing creative fiction. Reading and assigned writing experiments in a broad range of forms.  
Prerequisite(s): EN 200

EN303 Poetry Tour  
Hours 3  
Study of basic principles of composing poetry. Reading and assigned writing experiments in a broad range of poetic forms.  
Prerequisite(s): EN 200

EN305 Creative Nonfiction Tour  
Hours 3  
Study of the basic principles of composing creative nonfiction. Reading and assigned writing experiments in a broad range of forms of the genre.  
Prerequisite(s): EN 200

EN307 Special Topics in Applied Creative Writing  
Hours 3  
Study of the basic principles of a variety of practical applications for creative-writing-related skills and techniques, including arts programming and literary publishing.  
Prerequisite(s): EN 200

EN309 Advanced Expository Writing  
W  
Hours 3  
Study and practice in methods of exposition, explanation and explication, logic and persuasion, definition and analogy, analysis and evaluation. Enrollment is limited to 15. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN311 Special Topics In Literature  
Hours 3  
Topics vary from semester to semester and may include courses offered by other departments. May be repeated for a maximum of 9 hours.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN313 Writing Across Media  
Hours 3  
Advanced writing course exploring composition with images, sound, video, and other media while considering theoretical perspectives on rhetorical concepts such as authorship, audience, process, revision, and design.  
Prerequisite(s): (EN 101 AND 102) OR EN 103

EN317 Writing Center Practicum  
Hours 3  
An introduction to the history, theory and practice of Writing Centers. Students completing the course can apply for positions on the Writing Center staff.  
Prerequisite(s): None.

EN319 Technical Writing  
W  
Hours 3  
Focuses on principles and practices of technical writing, including audience analysis, organization and planning, information design and style, usability testing, and collaborative writing. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 104; or EN 120 and EN 121

EN320 Intro To Linguistics  
Hours 3  
Introduction to the study of language, including subjects such as language acquisition, variation, and origins. The system of sounds, syntax, and meaning are illustrated in English and other languages.  
Prerequisite for EN 423, EN 424, EN 425, EN 466.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN321 Linguis Approach English Gramr  
Hours 3  
A study of English grammar integrating principles from linguistic theory with structural approaches to grammar. The course includes a focus on the expectations of grammatical usage in different contexts and an understanding of how to apply this knowledge in a pedagogical setting. This course is a prerequisite for EN 423, EN 424, EN 425, EN 466.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN329 Directed Studies  
Hours 1-3  
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies. A reading list and a draft syllabus are required. Please see the departmental website for more information. EN 329 may be repeated for a maximum of 6 hours.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.
EN330 Chaucer And Medieval Literature
Hours 3
Examines works of the Old and Middle English Periods, the formative years of British literature. Works from pre-conquest England may include Beowulf, Bede’s History of the English Church, and poems from the Exeter and Vercelli manuscripts. The major works from the fourteenth and fifteenth centuries may include Sir Gawain and the Green Knight, William Langland’s Piers Plowman, John Gower’s Confessio Amantis, and Chaucer’s Troilus and Criseyde and the Canterbury Tales.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN331 Chaucer
Hours 3
Introduction to the works of Chaucer. This course includes a study of Chaucer’s language as well as the 14th-century milieu.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN332 Sixteenth Century Literature
Hours 3
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN333 Shakespeare
Hours 3
An introduction to Shakespeare’s plays and poems. Elizabethan customs, politics, history, and philosophies are examined in relation to his works.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN334 Seventeenth Century Literature
Hours 3
A cross-genre survey of literature in English from 1603 to 1660. Authors may include John Donne, Ben Jonson, Francis Bacon, John Webster, Lady Mary Wroth, William Bradford, Anne Bradstreet, and Andrew Marvell.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN335 Milton
Hours 3
An introduction to Milton’s English poetry along with the history, politics, aesthetics, philosophy, and theology of seventeenth-century England. Typically devotes approximately half the semester to a close reading of Paradise Lost.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN340 American Literature To 1900
Hours 3
A cross-genre survey of American literature from its beginnings to 1900. Authors may include Mary Rowlandson, Cotton Mather, Phillis Wheatley, Nathaniel Hawthorne, Frederick Douglass, Henry James, and Mark Twain.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN341 American Poetry To 1900
Hours 3
A survey of American poetry from its beginnings to 1900. Authors may include Anne Bradstreet, Edward Taylor, Edgar Allan Poe, Walt Whitman, and Emily Dickinson.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN342 American Fiction To 1900
Hours 3
A survey of the development of American fiction from its beginnings to 1900, with attention to both the novel and the short story. Authors may include James Fenimore Cooper, Nathaniel Hawthorne, Harriet Beecher Stowe, Herman Melville, Mark Twain, and Kate Chopin.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN343 British Fiction To 1900
Hours 3
A survey of developments in British fiction from its beginnings to 1900. Authors may include Aphra Behn, Daniel Defoe, Samuel Richardson, Henry Fielding, Jane Austen, Charles Dickens, and George Eliot.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN344 Major Authors 1660-1900
Hours 3
Limited to a maximum of three authors. Attention to the national literatures of Britain and America, and to different genres of prose, drama, and poetry, will vary from semester to semester. Authors may include John Milton, Alexander Pope, Jane Austen, Ralph Waldo Emerson, Herman Melville, Frederick Douglass, and Emily Dickinson.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN347 English Lit During Enlightenmt
Hours 3
A cross-genre survey of English literature during the period 1660-1800. Authors may include John Locke, John Bunyan, Mary Astell, Jonathan Swift, Lady Mary Wortley Montagu, Samuel Johnson, Hester Thrale, and James Boswell.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN348 Romantic Literature
Hours 3
A cross-genre survey of British Romantic writers such as William Blake, Jane Austen, William Wordsworth, Samuel Taylor Coleridge, Lord Byron, John Keats, Percy Bysshe Shelley, and Mary Shelley.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN349 Victorian Literature
Hours 3
A survey of the genres, authors, and issues in British literature, 1832-1900. Authors may include Thomas Carlyle, Elizabeth Barrett Browning, Robert Browning, Alfred, Lord Tennyson, Matthew Arnold, Dante Gabriel Rossetti, Christina Rossetti, and Oscar Wilde.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.
EN30 Topics in African American Lit
Hours 3
A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larson, Langston Hughes, and Toni Morrison.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN360 Topics American Lit 1900-1945
Hours 3
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in America. Authors may include Henry James, Mark Twain, Edith Wharton, W.E.B. Du Bois, Gertrude Stein, Countee Cullen, Eugene O'Neill, and Wallace Stevens.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN361 Top American Lit 1945-Present
Hours 3
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in America. Authors may include Langston Hughes, Arthur Miller, James Baldwin, Norman Mailer, Toni Morrison, Sam Shepard, Adrienne Rich, and John Ashbery.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN362 Topics British Lit 1900-1945
Hours 3
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in Britain. Authors may include Joseph Conrad, George Bernard Shaw, W. B. Yeats, Virginia Woolf, James Joyce, Katherine Mansfield, and T. S. Eliot.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN363 Top British Lit 1945-Present
Hours 3
A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in England. Authors may include Samuel Beckett, W. H. Auden, Doris Lessing, Seamus Heaney, Harold Pinter, and Jeanette Winterson.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN364 Modern Drama
Hours 3
A survey of the major American, British, European and African plays from the 19th and 20th centuries. Authors may include Eugene O'Neill, Tennessee Williams, Ntozake Shange, Oscar Wilde, Harold Pinter, Tom Stoppard, August Strindberg, Anton Chekhov, Wole Soyinka and Athol Fugard.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN365 Modern American Fiction
Hours 3
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN366 Twentieth Century Poetry
Hours 3
A survey of major authors and trends in modern poetry in America, Britain, and the larger Anglophone world, as poetry in English became an international phenomenon. Attention will be paid to modernist and post-modernist poetry movements, American regionalisms, war poetry, and the poetry of neocolonial experiences.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN367 Postcolonial and Global Anglophone Literature
Hours 3
A cross-genre survey of the literature of Africa, Asia, and the Caribbean. Authors may include Olaudah Equiano, Rabindranath Tagore, Chinua Achebe, Tsitsi Dangarembga, Chimamanda Ngozi Adichie, Ngugi wa Thiong’o, Aminatta Forna, Derek Walcott, V.S. Naipaul, Amitav Ghosh, J.M Coetzee, Bessie Head, Anita Desai, and Arundhati Roy.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN370 Comedy
Hours 3
A cross-genre survey of comic literature that may begin with the classical ideas of comedy and proceed through the present. This course, like comedy itself, will focus on individuals as they come to accept the idea that life can truly be a feast (Greek, Comos). This course considers changing conceptions of comedy whether in fiction, poetry, or drama.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN371 Tragedy
Hours 3
A cross-genre survey of tragic literature that may begin with the classical tragedians and proceed through the present. This course, like tragedy itself, will focus on the individual confronting the larger forces of society, god, or fate. This course considers changing conceptions of the tragic whether in fiction, poetry, or drama.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN373 Women In Literature
Hours 3
A survey of British and American literature written by and/or about women. Authors may include a cross-genre range from Anne Bradstreet and Fanny Burney to Toni Morrison and Louise Erdrich.
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN399 Honors Seminar in English
UH
Hours 3
Covers selected topics in English that vary from year to year. Topics are most likely to be thematic and to cut across conventional divisions of literary period and literary form. Required for departmental honors.
Prerequisite(s): EN 215 or EN 216 or EN 219 or EN 220
University Honors

EN400 Senior Seminar
Hours 3
Senior Seminar.
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.
EN408 Advanced Creative Writing
Hours 3
Special topics in imaginative writing. Focus may be on poetry, fiction, nonfiction or a combination. Students produce imaginative writing and read related texts. May be repeated for a maximum of 12 hours.
Prerequisite(s): EN 200, and two of the following: EN 301, EN 303, EN 305, EN 307, EN 313, EN 317. At least one of the two 300-level prerequisites must be EN 301, EN 303, or EN 305.

EN411 Adv Stdy Comptv Multi-Cutl Lit
W
Hours 3
Designed for advanced English majors, a special topics course that focuses on issues involving comparative literatures and/or cultural studies. Writing proficiency within this discipline is required for a passing grade in this course. EN 411 may be repeated for a maximum of 9 hours.
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.
Writing

EN422 Adv Studies Americ Literature
W
Hours 3
Designed for advanced English majors, a special topics course that focuses on issues in American literature. Writing proficiency within this discipline is required for a passing grade in this course. EN 422 may be repeated for a maximum of 9 hours.
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.
Writing

EN423 History of the English Language
Hours 3
An introduction to the external history of the English language along with the study of the accompanying internal changes in structure.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361

EN424 Structure Of English
Hours 3
Advanced study of the structure and usage of the English language, focusing on issues of morphology, syntax, and discourse context. Offered each fall semester.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361

EN425 Variation in American English
Hours 3
The study of the experience of the English language in America with particular emphasis on its development and dialects.
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361

EN429 Directed Readings
Hours 3
Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies. EN 429 may be repeated for a maximum of 6 hours.

EN430 English Internship
Hours 3-6
An on- or off-campus training position in which students use the skills they have gained as English majors and enhance their employment opportunities after graduation. Interns work approximately 10 hours a week, holding responsible positions with, among others, Alabama Heritage, Alabama Alumni Magazine, and the Tuscaloosa Public Defender's Office. Apply to the director of undergraduate studies in the Department of English. Please see the departmental website for the application form and further details. May be repeated for a maximum of 6 hours.
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.

EN433 Advanced Studies British Lit
W
Hours 3
Designed for advanced English majors, a special topics course that focuses on issues in British literature. Writing proficiency within this discipline is required for a passing grade in this course. EN 433 can be repeated for a maximum of 9 hours.
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.
Writing

EN444 Adv Stdy Literary Crit/Theory
W
Hours 3
Designed for advanced English majors, a special topics course that focuses on issues involving literary criticism and critical theory. Writing proficiency within this discipline is required for a passing grade in this course. This course may be repeated for a maximum of 9 hours.
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.
Writing

EN455 Advanced Studies In Writing
W
Hours 3
Designed for advanced English majors, a special topics course that focuses on the process of writing. The forms this writing may take include, but are not limited to, film, creative non-fiction, autobiography, and local color. May be repeated a maximum of 9 hours. Writing proficiency within this discipline is required for a passing grade in this course.
Writing
EN456 Writing Center Theory and Research  
Hours 3  
This course augments the professional practice of Writing Center staff with assigned readings, writing assignments, and discussions. Theory and research intensive.  
Prerequisite(s): None.

EN466 Advanced Studies In Linguistics  
W  
Hours 3  
Designed for English majors, a special topics course that focuses on issues in linguistics. A frequent topic is language and culture. This course may be repeated for a maximum of 9 hours.  
Prerequisite(s): EN 320 OR EN 321 OR ANT 210 OR ANT 401 OR ANT 450 OR FR 361 OR IT 361 OR SP 361  
Writing

EN477 Adv Studies Literary Genres  
W  
Hours 3  
Designed for advanced English majors, a special topics course that focuses on issues in genre criticism. Writing proficiency within this discipline is required for a passing grade in this course. This course may be repeated for a maximum of 9 hours.  
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.  
Writing

EN488 Adv Stdy African American Lit  
W  
Hours 3  
Designed for the advanced English major, a special topics course that focuses on issues in African American literature. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.  
Writing

EN499 Honors Thesis  
UH, W  
Hours 3  
The Honors Thesis in English course is an individualized, directed readings class that culminates in a 30-50 pp. thesis. It is the final required course for the Honors in English program. Each student enrolled will work individually with a faculty mentor.  
Prerequisite(s): EN 399  
University Honors, Writing

FA200 Introductn To Fine Arts  
FA  
Hours 3  
An introduction to the fine arts, drawing especially on campus and community cultural events. This course is usually open to incoming freshmen.  
Fine Arts

FR101 Elementary French I  
FL, HU  
Hours 4  
For students who have never studied French; or with one year of high school French; or with one or more years of elementary or middle school French. This course focuses on fundamental spoken and written communication in French while developing knowledge of cultural topics relating to contemporary French and French-speaking countries. Offered each semester.  
Foreign Language, Humanities

FR102 Elementary French II  
FL, HU  
Hours 4  
Continuation of FR 101. This course focuses on further advancing intercultural communicative abilities through explorations of cultural topics relating to contemporary French and French-speaking countries. Offered each semester.  
Prerequisite(s): Minimum Grade of C- or higher in FR 101 at UA; or equivalent from another institution; or two years of high school French.  
Foreign Language, Humanities

FR201 Intermediate French  
HU  
Hours 3  
This course cultivate global competence by consolidating and expanding linguistic knowledge within a culturally rich context.  
Prerequisite(s): Minimum grade of C- or higher in FR 102; or equivalent from another institution; or 3 years of high school French with a B+ average in French or higher; or 4 years of high school French with a B average in French or lower; or a 3 on the AP French Language exam.  
Humanities

FR202 Intermediate French  
HU  
Hours 3  
Continuation of FR 201. This course reviews and refines linguistics knowledge to prepare students for advanced courses through research projects and creative writing activities.  
Prerequisite(s): Minimum grade of C- or higher in FR 201; or equivalent from another institution; or 4 + years of French with a B+ average in French or higher; or a 4 on the AP French Language exam.  
Humanities
FR205 Living In French House
Hours 1-2
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 206, or 321, or 322, or 323, or 324, or 328, or 329

FR206 Living In French House
Hours 1-2
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 205, or 321, or 322, or 323, or 324, or 328, or 329

FR206 Living In French House
Hours 1-2
Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.
Prerequisite(s): FR 201, or 202, or 205, or 321, or 322, or 323, or 324, or 328, or 329

FR321 Voices In French
W
Hours 3
Introduction to literary and cultural analysis through selected works of French cultural expression. Emphasis on expanding vocabulary and improving grammar in order to develop speaking, reading, and writing proficiency beyond the second year. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the fall semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202
Writing

FR322 Advanced French Grammar
Hours 3
Review of French grammar with emphasis on written exercises. Study abroad equivalent: FR 329. Usually offered in the fall semester.
Prerequisite(s): FR 202

FR323 Text, Image, And Word
W
Hours 3
Contemporary French and Francophone society and culture. Continued work in literary and cultural analysis through selected works of recent cultural media (journalism, literature, music, film). Emphasis on written exposition, oral proficiency, critical thinking, grammar review. Writing proficiency within this discipline is required for a passing grade in this course. Usually offered in the spring semester. Study abroad equivalent: FR 328.
Prerequisite(s): FR 202
Writing

FR324 Commercial French
Hours 3
Introduction to basic business language and vocabulary, business protocol and culture in French-speaking countries.
Prerequisite(s): FR 321 or FR 322 or FR 323 or by permission of the instructor or by placement exam

FR325 Cultures and Conversations
FL
Hours 3
This course is designed to advance students' proficiency in spoken and conversational French while exploring French and Francophone cultures. Improves ability to function in the interpersonal, interpretive, and presentational modes of communication. Topics at the discretion of the instructor teaching the course.
Prerequisite(s): Score of 5 on the AP French Exam
Prerequisite(s) with concurrency: FR 202; or equivalent from another institution
Foreign Language

FR328 French Conversation-Abroad
Hours 3
Contemporary French society and culture. Direct on-site cultural exposure. Analysis of recent cultural media (e.g., journalism, literature, song, film) in context. Emphasis is on written exposition, oral proficiency, grammar review, and critical appraisal in relation to an immersion experience in French culture. Offered in France. For purposes of satisfying the requirements of the French major or minor, this course can be used in lieu of either FR 321 or FR 323.

FR329 Adv Fr Grammar-Abroad
Hours 3
No description available

FR331 French Civilization
Hours 3
The course is also taught abroad as FR 339. Study of French artistic heritage and development of social and political institutions. Offered alternate fall semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323

FR339 French Civilization-Abroad
Hours 3
No description available

FR341 Survey Fr Literature I
L, W
Hours 3
French literature from its origins through the 18th century. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall semesters.
Prerequisite(s): FR 321 or FR 322 or FR 323
Literature, Writing
FR351 Survey Fr Literature II
W
Hours 3
French literature of the 19th and 20th centuries. Readings from major authors, lectures, and reports. Writing proficiency within this discipline is required for a passing grade in this course. Offered spring semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323
Writing
FR361 Intro Romance Linguistic (Same as IT 361 and SP 361)
Hours 3
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.
FR380 Special Topics
Hours 1-3
Directed reading, research, or French Immersion Retreat. Also offered within the curriculum for the Alabama-in-France summer program. Topic to be determined in consultation with the instructor or program director.
FR421 Pronunciation & Phonetics
Hours 3
Introduction to phonetic theory and corrective phonetics through auditory discrimination exercises and contrastive analysis; emphasis on mastery of oral skills. Offered each semester.
Prerequisite(s): FR 321 or FR 322 or FR 323
FR424 Globalization, Business and Marketing
FL, HU
Hours 3
This course prepares students to manage the intricacies posed by cultural differences when engaging in intercultural communicative marketing practices in French. Refines and expands intercultural communicative competence and cross-cultural problem-solving abilities.
Prerequisite(s): FR 324 or 331
Foreign Language, Humanities
FR431 Contemp French Civiliztn
Hours 3
Exploration of the political, technological, and cultural movements of France from 1871 to the present. Offered alternate fall semesters.
Prerequisite(s): FR 321 OR FR 322 OR FR 323
FR441 Page & Stage
FL, HU, L
Hours 3
Focuses on theater. Analysis and interpretation of theatrical texts with emphasis on student research and presentations, including vocal expression and physical interpretation.
Prerequisite(s): FR 321, 322, or 323
Foreign Language, Humanities, Literature
FR461 French Linguistics
Hours 3
Linguistic theory applied in the analysis and description of French phonological, morphological, syntactic, and semantic structures. Offered alternate years.
Prerequisite(s): FR 321 or FR 322 or FR 323
FR470 Undergrad Sem In French
Hours 3
Intensive examination of a selected topic, with emphasis on student research and presentations. A representative sample of topics would include: Francophone Africa, The 19-Century French Novel, French-English Translation, and Poetry of the French Renaissance. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323
FR480 Special Topics
Hours 3
Directed reading or research related to French and Francophone language, literature and culture. May be repeated for a maximum of 12 hours.
Prerequisite(s): FR 341 OR FR 351 OR FR 331 OR FR 431 OR FR 321 OR FR 322 OR FR 323
FR484 Adv Converstn Phonetics
Hours 3
Emphasis is on improvement of oral expression in a variety of contexts. Consideration of phonetics as it serves this goal. For purposes of satisfying the requirements of the French major or minor, this course can be used in lieu of FR 421.
Prerequisite(s): FR 321 or FR 322 or FR 323.
FRS101 Elementary Farsi I
FL
Hours 3
Contemporary Farsi (Persian): speaking, reading, and writing. Course involves supervised-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native or near native speakers of this language are NOT allowed to take this course. Any students with any background knowledge of this language must see the CLC director BEFORE enrolling. Not repeatable without permission of the CLC director.
Foreign Language
FRS102 Elementary Farsi II
FL
Hours 3
Contemporary Farsi: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. This is a SUPERVISED-SELF-STUDY class. The language “trainer” will help students develop their communicative ability during class meetings. During the class meetings students will actively participate in practicing spoken language to acquire better pronunciation and conversation skills. English use will be kept to a minimum in class. Language trainers will monitor active participation throughout the semester by use of the STUDENT PERFORMANCE REPORT which will be sent to the director of the CLC. Regular class attendance and participation is required.
Prerequisite(s): FRS 101

Foreign Language
FRS201 Intermediate Farsi I
Hours 3
Continuation of Farsi (Persian) language on the Intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): FRS 102

GEO101 The Dynamic Earth
N
Hours 4
Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.
Natural Science

GEO102 The Earth Through Time
N
Hours 4
Three lectures and one laboratory. Survey of earth’s history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.
Natural Science

GEO103 Introduction to Oceanography
N
Hours 4
This course is an introductory study of the Earth Ocean system, including processes shaping the ocean floor and coastlines; basic physical and chemical properties of the seawater; ocean circulation and climate change, and biological productivity and marine life.
Prerequisite(s): None
Prerequisite(s) with concurrency: None
Natural Science

GEO104 Hazardous Earth
N
Hours 4
This natural science course examines geologic and other Earth hazards that impact humans and ways that human activities often increase these hazards. The course consists of lecture and lab, and includes field trips and videos that illustrate various natural hazards.
Natural Science

GEO105 Sustainable Earth
N
Hours 4
Three lectures and one laboratory. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment. Includes discussion of water pollution, air pollution and waste disposal as primary issues related to resource utilization.
Natural Science

GEO205 Communicating Geology
Hours 3
No description available

GEO210 Mineralogy
Hours 4
Two lectures and two laboratories. Introduction to crystallography, crystal chemistry, rock-forming minerals, physical properties of minerals, hand sample mineral identification, and optical mineralogy. Offered in the fall semester.
Prerequisite(s): CH 101 or CH 117; and GEO 101

GEO306 Hydrogeology
Hours 3
Introduction to the principles of groundwater flow, groundwater exploration, water quality, and groundwater contamination; environmental topics in groundwater. Offered in the fall semester.
Prerequisite(s): GEO 101

GEO314 Ign. & Meta. Petrology
Hours 4
Three lectures and one laboratory. Megascopic and microscopic study of igneous and metamorphic rocks, with emphasis on identification, classification, genesis, and relationships to tectonism. Offered in the spring semester.
Prerequisite(s): GEO 210

GEO355 Invertebrate Paleontology
Hours 3
Two lectures and one laboratory. Study of the taxonomy and morphology of major invertebrate fossil groups. Offered in the spring semester.
Prerequisite(s): GEO 101 and GEO 102
GEO363 Geomorphology
Hours 3
Two lectures and one laboratory. Study of landforms with emphasis on
the basic geomorphic processes that contribute to their origin. Offered in
the fall semester.
Prerequisite(s): GEO 101

GEO365 Structural Geology
Hours 3
Two lectures and one laboratory. An introductory study of the
deformation of rocks, including mechanical principles, description
and identification of folds and faults, map interpretation, and regional
tectonics. Offered in the fall semester.
Prerequisite(s): GEO 101 and PH 101

GEO367 Sedimentology/Stratigraphy
Hours 4
Three lectures and one laboratory. Study of the principles involved in the
description and classification of sedimentary rocks and stratigraphic
units, with emphasis on sedimentary processes and depositional
environments. Offered in the spring semester.
Prerequisite(s): GEO 102 and GEO 210

GEO369 Introduction Geophysics
Hours 3
Introduction to the major fields of exploration geophysics such as
seismology, isostasy, heat flow, gravity and magnetic prospecting, and
electrical methods. The course includes both principles and applications
to petroleum, mining, and environmental problems. Offered in the fall
semester.
Prerequisite(s): MATH 125 and PH 102 and GEO 101

GEO399 Undergraduate Research
Hours 1-6
A maximum of 4 hours can be applied toward the major in geology.
Approval of the department chairperson is required prior to registration.
Offered according to demand.

GEO401 Paleoclimatology
W
Hours 3
Survey of the history of global climate change and the methods used
to measure paleoclimate in the geological record. Offered in the Spring
semester.
Prerequisite(s): GEO 101 or GEO 102

Writing

GEO407 Seismology
Hours 3
This course provides an overview of earthquake seismology for both
upper-level and graduate geo-science students. Topics include elastic
wave propagation, seismic ray theory, travel time interpretations, surface
wave dispersion, and seismic tomography.
Prerequisite(s): MATH 126 or MATH 146

GEO410 Soil & Groundwater Restoration
Hours 3
Methods for restoring contaminated soil groundwater by examining
the factors and processes influencing the efficacy of remediation
systems. Emphasis placed on the scientific principles upon which soil
and groundwater remediation is based.
Prerequisite(s): GEO 101 and CH 101 or CH 117 and CH 102 or 118

GEO411 Contaminant Transport in Porous Media
Hours 3
This course will cover topics related to the transport and fate of
contaminants in subsurface systems. Specifically, this course will
discuss the many factors and processes influencing contaminant
transport such as the effects of dispersion, inter-phase mass transfer,
transformation reactions, and porous-media heterogeneity. In addition,
representative conceptual/mathematical models describing contaminant
transport phenomena will be discussed.
Prerequisite(s): MATH 125 PH 102 CH 102 GEO 306

GEO416 Volcanology
W
Hours 3
Study of the physical properties of magmas, eruptive mechanisms,
volcanic products, and the relationship between volcanism and
tectonism. Writing proficiency within this discipline is required for a
passing grade in this course. Offered in the fall semester.
Prerequisite(s): GEO 101 The Dynamic Earth GEO 314 Ign. & Meta.

Petrology

Writing

GEO420 Petroleum Geology
Hours 3
Introduction to the origin, migration, accumulation, and entrapment of
petroleum. Emphasis is on sedimentary, geochemical, and hydrodynamic
processes. Offered in the spring semester of even-numbered years.
Prerequisite(s): GEO 365 and GEO 367

GEO424 Topics In Geology
Hours 1-4
Special topics in the following areas: economic geology, geochemistry,
geophysics, geomorphology, hydrogeology, mineralogy, paleontology,
petrology, sedimentology, stratigraphy, structural geology, and tectonics.
Offered according to demand.
Prerequisite(s): GEO 101 The Dynamic Earth / Minimum Grade of C-

GEO435 Honors Sem In Geology
Hours 1
Oral presentations on current geological topics. Offered in the fall
semester.

GEO436 Honors Sem In Geology
UH
Hours 1
Oral presentations on current geological topics. Offered in the spring
semester.

University Honors
GEO446 Scientific Computing
Hours 3
This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages. Offered according to demand.

GEO470 General Geochemistry
W
Hours 3
Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered in the Spring semester.
Prerequisite(s): GEO 314
Writing

GEO476 Analytical Geochemistry
Hours 3
Theory, techniques, and applications of geochemical methods for the analysis of rocks, soils, and aqueous fluids. Offered according to demand.

GEO490 Seminar Regional Geology
Hours 1-3
Seminar on and field trip to important geologic localities. May be repeated for credit. Offered according to demand.
Prerequisite(s) with concurrency: GEO 314

GEO492 Geologic Field Writg Tech
Hours 2
Introduction to the methods of field geology, geology of the southeastern U.S., geological writing, and presentation techniques. Offered according to demand.
Prerequisite(s): GEO 367

GEO495 Field Geology
Hours 6
Five-week field course involving the application of geologic techniques and principles. Includes geologic mapping, data collection, and report writing. Offered during the first summer term.
Prerequisite(s): GEO 314 and GEO 365 and GEO 367

GEO497 Geological Internships
Hours 3
A maximum of 4 hours can be applied toward the major in Geology. Field and laboratory projects with government and industry. Offered according to demand.
Prerequisite(s): GEO 101 and GEO 102 or GEO 105

GEO499 Research In Geology
Hours 1-4
Offered according to demand.

GN101 Elementary German I
Fl, Hu
Hours 4
GN 101 is the first semester elementary German course. It entails the acquisition of all modes of communication, language structure, and culture.
Foreign Language, Humanities

GN102 Elementary German II
Fl, Hu
Hours 4
GN 102 is the second semester elementary German course. It entails the acquisition of all modes of communication, language structure, and culture.
Prerequisite(s): GN 101 with a grade of “C-” or better, placement exam, or permission of instructor.
Foreign Language, Humanities

GN103 Accelerated Elementary German
Fl, Hu
Hours 4
Accelerated Introductory German meets 5 hours/week and covers all materials from GN 101 and GN 102 in one semester. This class deals with virtually all content in the textbook, the electronic workbook, and discussion topics. This is a fast-paced course, which requires active participation inside and outside the classroom. Successful completion of GN 103 fulfills the foreign language requirement of the core curriculum.
Foreign Language, Humanities

GN201 Intermediate German I
Hu
Hours 3
German 201 is the third course in a four-semester proficiency-based language sequence. This course, intended for intermediate students, stresses the four language skills areas: speaking, writing, listening and reading. Students complete reading, writing and listening assignments at home, which then become the basis for student-to-student interaction, small group work and role-play in class. The textbook covers topics and themes related to German language and literature and also provides texts pertaining to famous philosophers and artists, such as writers, musicians, and dramatists. The course will further cover German politics and history. Students will be reading will be reading texts from various genres, such as poems, excerpts of plays, newspaper articles, and short literary texts. Additional readings/materials will be provided by the instructor.
Prerequisite(s): Undergraduate level GN 102 or GN 103 with a minimum grade of C or UA Foreign Language Placement Exam in German with a minimum score of 417.
Humanities
GN202 Intermediate German II  
**HU**

Hours 3

German 202 is the fourth course in a four-semester, proficiency-based language sequence. German 201 is the prerequisite. This course, intended for intermediate students, stresses all four language skills: speaking, writing, listening, and reading. Students complete reading, writing and listening assignments at home, which then become the basis for student-to-student interaction, small group work and role-play in class. Additional readings will be provided by the instructor. Both the textbook and the readings address a variety of cultural topics dealing with life in German-speaking countries.

Prerequisite(s): GN 201 with a grade of “C” or better, placement exam, or permission of instructor.

Humanities

GN205 Living German House I  
Hours 2

Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN206 Living German House II  
Hours 2

Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN240 Introduction to German Linguistics  
Hours 3

Course introduces students to basic linguistic concepts as they apply to German and language generally. What are the different kinds of German spoken by different speakers in varied places? Why are there different kinds of German used? We will also examine the sounds of German (phonology), word parts (morphology), how the parts stream together (syntax), lexicon, semantics, and how German fits in in the broader world. Taught in English.

Prerequisite(s): None

GN250 Germanic Mythology  
Hours 3

Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

GN254 Survey of German Cinema  
Hours 3

An overview of German Cinema from Silent Era in the 20’s through New German Cinema, to post-wall works. Topics: history, socio-cultural frame, directors and cinematography.

GN260 Holocaust In Film & Lit  
**HU**

Hours 3

As the Holocaust recedes in time, written and filmic documents (history, autobiography, art) increasingly shape our perception and understanding of the event. In this course we investigate important and exemplary literary and filmic renderings of the Holocaust.

Humanities

GN264 German Literature Translatn I  
**HU, L**

Hours 3

German 264 is a survey in English of German literary masterpieces from the Middle Ages to the period around 1800. This semester we will read the highly influential epic poem from German medieval literature – Nibelungenlied; a picaresque novel from the Early Modern period – The Life of Courage; an essay on the question “What is Enlightenment?” by the eighteenth-century philosopher Immanuel Kant; Gotthold Empirahim Lessing’s increasingly topical “dramatic poem” urging religious toleration – Nathan the Wise; a tragedy by Friedrich Schiller which banned throughout German-speaking Europe for its seemingly controversial message – The Robbers; and we will finish with what is often regarded as the most canonical text of German literature – Goethe’s Faust I. We will also examine the impact these literary works have had and still have on German culture, including art, music and film.

Humanities, Literature

GN265 Masterpieces of German Literature in English Translation  
**HU, L**

Hours 3

The course introduces students to major works of German literature in different genres from the nineteenth and twentieth centuries. Themes include politics, gender, war and peace, issues of class, race and sexuality. Through the use of film and other media we will attempt to follow the introduction of these literary works into the popular imagination.

Humanities, Literature

GN270 Special Topics  
Hours 3

Topic varies. No knowledge of German is required.

GN361 Interim Convers Comp I  
Hours 3

Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.

Prerequisite(s): GN 202 with a grade of “C” or better, placement exam, or permission of instructor.

GN362 Interim Convers Comp II  
Hours 3

Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.

Prerequisite(s): GN 202 with a grade of “C” or better, placement exam, or permission of instructor.

GN365 Business German  
Hours 3

Acquisition of business German used in commercial transactions. Emphasis is on business letters and business conversation.

Prerequisite(s): GN 361 or GN 362 or instructor approval
GN371 German Culture and Civilization Thru 1832
Hours 3
A survey of German cultural history from the Germanic tribes through the Age of Goethe. Emphasis is on developments in philosophy, religious thought, music, art, architecture, and popular culture in the context of political and social history.
Prerequisite(s): GN 361 or GN 362 or instructor approval

GN372 Germn Cult Civ 1832-Present
Hours 3
A survey of German cultural history from the 1830s to the present.
Prerequisite(s): GN 361 or GN 362 or instructor approval

GN381 Directed Readings
Hours 1-4
Students planning to enroll should confer with the instructor before registration.

GN403 Undergraduate Seminar
Hours 3
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372

GN404 Undergraduate Seminar
Hours 3
Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.
Prerequisite(s): GN 371 or GN 372

GN450 Intermed Business German
Hours 3
Expands and deepens knowledge of business German and prepares students for such internationally recognized business German examinations as the Zertifikat Deutsch f?r den Beruf and Pr?fung Wirtschaftsdeutsch International.
Prerequisite(s): GN 365

GN461 Adv Gn Convers Comp I
W
Hours 3
This course emphasizes review and further development of communication skills, and includes readings of literary, cultural, and/or historical texts in German. You will continue to practice all four skills (writing, reading, speaking and listening), but the focus will be on improving your conversational and writing skills. We will review important grammar topics and work on expanding your vocabulary to give you the ability to express yourself in a variety of stylistic contexts. Apart from our textbook, we will read various fiction and non-fiction as well as watch various films and film clips. Writing proficiency within the discipline is required for a passing grade in this course.
Prerequisite(s): Completion of either GN 361 or GN 362 with a grade of “C” or better, unless by special permission of the instructor.

GN462 Adv Gn Convers Comp II
W
Hours 3
This course emphasizes review and further development of communication skills, and includes readings of literary, cultural, and/or historical texts in German. You will continue to practice all four skills (writing, reading, speaking and listening), but the focus will be on improving your conversational and writing skills. We will review important grammar topics and work on expanding your vocabulary to give you the ability to express yourself in a variety of stylistic contexts. Apart from our textbook, we will read various fiction and non-fiction as well as watch various films and film clips. Writing proficiency within the discipline is required for a passing grade in this course.
Prerequisite(s): Completion of either GN 361 or GN 362 with a grade of “C” or better, unless by special permission of the instructor.

Writing

GN481 Directed Readings
Hours 1-4
Students planning to enroll should confer with the instructor before registration.

GN482 Directed Readings
Hours 1-4
Students planning to enroll should confer with the instructor before registration.

GR101 Beginning Greek I
FL, HU
Hours 3
Fundamentals of Greek grammar and syntax. Offered in the fall semester.
Foreign Language, Humanities

GR102 Beginning Greek II
FL, HU
Hours 3
Continued study of the fundamentals of Greek grammar and syntax. Offered in the spring semester.
Foreign Language, Humanities

GR201 Intermediate Greek I
Hours 3
Introduction to and practice in reading Greek literature, particularly Homer's Iliad.

GR202 Intermediate Greek II
Hours 3
An introduction to Greek prose with an emphasis on Xenophon's Anabasis.

GR301 Advanced Greek I
Hours 3
Select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.
GR302 Advanced Greek II
Hours 3
More select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR490 Adv Greek Literature
Hours 3
Select readings in Greek literature. An effort is made to accommodate the student's special interests. The course may be repeated for credit. Offered according to demand.

GS111 Academic Skills
Hours 1-4
A one-, two-, or three-part course in academic skills for students eligible for the Student Support Services Program. Enrollment in each of the components is based on a diagnosed need. Offered in the fall and spring semesters.

GS391 Exceptional Studies
Hours 1-6
Independent study and/or research on an approved topic, under the direction of a College of Arts and Sciences faculty member. The subject matter, methodology, goals, and objectives of the study are intended to be unique.

GS491 Academic Internship
Hours 1-3
Students work with a faculty member on a planned and supervised activity related to the instructional, research, or service functions of the College of Arts and Sciences.

GY101 Atmospheric Proc & Patterns
Hours 4
Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

Natural Science

GY102 Earth Surface Processes
Hours 4
Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

Natural Science

GY105 World Regional Geography
Hours 3
Introduction to geography through a survey of the world's major geographic regions. Examines their physical and cultural features, economies, and populations.

Social and Behavioral Sciences

GY110 People, Places, and Environment
SB
Hours 3
Introduction to geography as a science for learning the fundamentals of human behavior and decision making. Examines how human events, natural resources, economies, development, and urbanization impact the way humankind lives, organizes its space, and makes decisions for the future.

Social and Behavioral Sciences

GY200 Principles Of Planning
Hours 3
Survey of the basic elements of regional and urban planning. Provides a comprehensive overview of the planning profession.

GY202 The Water Planet
Hours 4
This course is about water on earth, and the content will integrate scientific elements from the disciplines of atmospheric science, geography, geology, hydrology, oceanography, and water resources. The course is organized based on the large-scale elements of the hydrologic cycle and the smaller-scale elements of the water balance concept, especially as they affect water resources.

Natural Science

GY204 Map & Air Photo Interpretation
Hours 4
Three hours lecture and one two-hour laboratory period. Fundamentals of map reading and interpretation.

GY207 Field Studies in Water and Climate
Hours 4
Water is one of the most abundant, yet most precious, natural resources on Earth. Its movement and properties are determined by processes occurring within and across many geosystems, including rivers, lakes, glaciers, groundwater, and climate systems. This course explores how different components of Earth’s water system operate and the processes linking the components together. We will also explore how people modify and utilize Earth’s water systems. Our course will be based in Innsbruck, Austria, a geographic location with a variety of water systems, including glaciers, which have very strong ties to Earth’s climate system. We will take fieldtrips to local glaciers and rivers to examine how water systems operate in the “real world” and learn techniques used to measure and understand how these systems change over space and time. We will also take fieldtrips to Prague, Czech Republic and Munich, Germany to better understand how humans modify water systems, through processes such as river regulation. GY 207 is designated a natural science (NS) course.

Natural Science

GY302 Climatology
Hours 3
Introduce the fundamentals of the earth-atmosphere system as they comprise the climate of Earth, drive spatial and temporal climate variability, and impact life.

Prerequisite(s): GY 101
GY317 Natural Hazards  

Hours 3  

Examination of the causes, consequences, and spatial distribution of climatic, geomorphic, and human-induced natural hazards.  
Prerequisite(s): GY 101 or GY 102

GY330 Computer Mapping Graphics  

C  

Hours 4  

Three hours lecture and one two-hour laboratory period. Introduction to computer graphics and their application in both the natural and social sciences, with special emphasis on mapping. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): GY 204 and CS 102

GY339 Natural Resource Environment Planning  

Hours 3  

Analyzes human interactions with the physical environment and ways of dealing with them. Integrates environmental science, social science, and planning, and includes environmental impact assessment.

GY341 Geography of the United States and Canada  

Hours 3  

Study of the physical and human geography of the United States and Canada.

GY344 Geography of Africa  

Hours 3  

Study of the physical and human geography of Africa.

GY345 Geography of Latin America  

Hours 3  

This course is designed to provide a regional survey of Latin America’s environments and peoples from a geographic perspective. The course presents the physical landscape as well as the changing environment in Latin America. The course then explores the major historical, cultural, and economical aspects of the region. The course will have an emphasis in processes that shape the major contemporary issues, such as development, urbanization, and environmental change.

GY346 Geography of Europe  

Hours 3  

This course is designed to provide a regional survey of Europe in terms of economic activities and the physical environment. Special emphasis is on the historical development of European landscapes.

GY351 Geography of Alabama  

Hours 3  

Study of the varied geographical dimensions of the state of Alabama, both past and present.

GY358 Urban Geography  

Hours 3  

Examines the growth of cities, their spatial distributions, internal dynamics, functional bases, and social and political patterns.  
Prerequisite(s): GY 110

GY363 Geomorphology  

Hours 3  

Study of physical, chemical and biological processes operating at the Earth's surface and landforms, and the landscapes such processes develop.  
Prerequisite(s): GY 102 or GEO 101

GY365 Industrial Development and Location  

W  

Hours 3  

Systematic study of the principles and processes underlying the development, location, and spatial organization of economic activities from both a national and international perspective. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): GY 110

GY370 Special Topics  

Hours 3  

No description available

GY375 Sports Geography  

Hours 3  

Sports are an important part of society and contribute billions of dollars to the global economy. This course examines the geographic dimensions of sports, primarily in North America, with some reflections on Europe for contrast. The geography of sports can be analyzed through the use of concepts found in a variety of human geography subdisciplines, including cultural, historical, economic, population, urban, and political geography. The course covers a variety of topics and helps students develop a holistic view of sports with regards to spatial interactions. Geography courses explain why things are where they are on the surface of the Earth. In other words, students develop a spatial perspective in thinking about their surroundings.

GY377 Cultural Geography  

Hours 3  

Study of the way in which culture influences elements of both physical and human landscapes with emphasis on how cultures are spread over space and how cultures make sense of space.  
Prerequisite(s): GY 105 or GY 110

GY385 Watershed Management Plan Development  

Hours 3  

This course is designed to be primarily an experiential course and will address development and implementation of a Watershed Management Plan. The North River Watershed Management Plan will be used as a working model and students will review theory before carrying out experiential learning in the field.
GY404 Physical Geography Seast Us
Hours 3
A study of the physical landscapes in the southeastern United States. Emphasis is on the geological setting, geomorphic features, climate, soils, and vegetation, and the interrelationships of these conditions that shape the landscape in this region.
Prerequisite(s): GY 101 and GY 102; or GEO 101

GY405 Dir Res Physical Geog
Hours 1-3
Hands-on, problem solving in the field of physical geography.

GY406 Dir Res Human Geography
Hours 1-3
Hands-on, problem solving in the field of human geography.

GY409 Forest History and Restoration
Hours 4
This course covers the theories, tools and techniques used in historical ecology with a focus on the establishment of reference conditions for habitat conservation and restoration efforts.
Prerequisite(s): GY 101 or GY 102

GY410 The Geography of National Parks
Hours 3
This course is devoted to the changing geography of the national park system and protected areas, with an emphasis on their design, planning, and operations.
Prerequisite(s): GY 110

GY412 Hydroclimatologist
Hours 3
To provide a basic understanding of the waters of Earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water in streams, lakes and on or below the land surface.
Prerequisite(s): GY 101 and GY 302

GY413 Applied Climatology
Hours 3
Applied Climatology is a graduate/senior level course designed to expand upon fundamental concepts learned in GY 101. Within this broad field, a specific focus in GY 413 concentrates upon climate and human health/behavior, and human modification of climate. The course contains a mixture of lecture, lab, and field assignments.
Prerequisite(s): GY 101

GY414 Climate Change and Health
Hours 3
This course is an introduction to the effect of global climate change on health. The course will be taught from a geographical perspective and will introduce students to the physical science of climate change and the impact it has on health through discussion of extreme weather events, altered ecological systems, and threats to human security and welfare. Discussion will build on the core concepts of climate change science to provide students with a solid foundation to further examine a variety of topics from acute impacts such as heat waves and other weather extremes to chronic conditions such as shifting disease vector habitats, degraded air quality, and food security. Direct correlations between health impacts and climate change will be emphasized throughout as will discussion of mitigation and adaptation strategies.
Prerequisite(s): GY 101

GY415 The Geography of Extinctions and Endangered Species
Hours 3
This course examines the individuals, institutions, research, controversies, and policies that have developed around wildlife extinction, ecological problems associated with extinction, and endangered species. The course also examines the stories of several lost or vanishing species. This course, which has been developed out of the instructor's current research projects, uses lectures, readings, student-led discussions, writing assignments, and one exam to explore how humans have contributed to, while at the same time grappling with, the issue of wildlife conservation and extinction.

GY416 Introduction to Geostatistics Using R
Hours 3
This course is an introduction to geostatistical data analysis using R. The course will be taught from the perspective of geographical and climate data analysis but serves as a broad introduction to the high-level programming language, R, as well as applied spatial data analysis. Students will load and manipulate data of different types, perform a variety of statistical analyses, generate graphical output, and create productive workflows using R alone. The primary outcome will be to facilitate students’ use of R to analyze data of their own choosing on a final project. Students will present these methods to the class for others to critique, analyze and learn from. Code sharing and re-use is highly emphasized, as is collaboration. The course is designed as a 1-hour lecture plus 2-hour lab each week.

GY417 Extreme Weather and Society
W
Hours 3
EW&S is an integrated physical and social science seminar class consisting of readings, discussion, and lectures on perception, understanding, and communication of severe weather hazards.
Prerequisite(s): GY 101
Writing
GY420 Remote Sensing I
C
Hours 4
Three hours lecture and one two-hour laboratory period. Introduction to
the basic principles of electromagnetic radiation, interaction between
energy and earth features, remote sensing instruments, and information
extraction from remotely sensed data. Computing proficiency is required
for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102
Computer Science

GY424 Cartography Practicum
Hours 3-9
Individual work experience in cartography, supervised by faculty and staff
of The University of Alabama. A maximum of 3 hours of internship or
practicum credit can be applied to the geography major. Credit for GY 424
cannot be applied to the geography minor.

GY425 Cartography Internship
Hours 3-9
Individual work experience on a cartographic project, supervised by the
staff of an off-campus agency. A maximum of 3 hours of internship or
practicum credit can be applied to the geography major. Credit for GY 425
cannot be applied to the geography minor.

GY429 Fundamentals of Geographic Information Systems
Hours 3
This course is a hands-on, practical Geographic Information Systems
(GIS) introduction for non-majors in Geography or GIS Certificate.

GY430 Intro Geographic Info Systems
C
Hours 1,3
Three hours lecture and one hour laboratory period. Introduces the basic
concepts of GIS, including definition and components of GIS, spatial
data structures, data sources, data input, manipulation and analysis,
applications of GIS, and managing GIS. Computing proficiency is required
for a passing grade in this course.
Prerequisite(s): GY 204 and CS 102
Computer Science

GY431 GIS in Emergency Management
Hours 4
Addresses geo-spatial data, methods, and software used in mitigation,
planning, response, and recovery phases of emergency management.
Case studies and scenarios are drawn from meteorological,
environmental, geological, and biological hazards and disasters.
Prerequisite(s): GY 430

GY433 GIS Practicum
Hours 3-9
Individual work experience in GIS, supervised by the faculty and staff
of The University of Alabama. A maximum of 3 hours of internship or
practicum credit can be applied to the geography major. Credit for GY 433
cannot be applied to the geography minor.

GY434 Gis Internship
Hours 3-9
Individual work experience in GIS, supervised by the staff of an off-
campus agency. A maximum of 3 hours of internship or practicum credit
can be applied to the geography major. Credit for GY 434 cannot be
applied to the geography minor.

GY435 Remote Sensing II
C
Hours 4
Three hours lecture and one two-hour laboratory period. Analysis and
extraction of thematic information from nonphotographic remotely
sensed data for geographic information systems. Topics include image
processing, image enhancement, and image classification. Computing
proficiency is required for a passing grade in this course.
Prerequisite(s): GY 420
Computer Science

GY436 Adv Geographic Info Syst
C
Hours 4
Three hours lecture and one two-hour laboratory period. Evaluation
of case studies, spatial model development, and database design for
geographic information systems. Computing proficiency is required for a
passing grade in this course.
Prerequisite(s): GY 430
Computer Science

GY437 GIS for Transportation
Hours 4
The application of Geographic Information Systems to transportation has
resulted in a sub-field known as GIS-T. This course will provide a hands-
on introduction to GIS-T.
Prerequisite(s): GY 204

GY438 Application Issues In Gis
Hours 4
Three hours lecture and one two-hour laboratory period. In-depth study
of various topics in the application and technical issues of geographic
information systems. Computing proficiency is required for a passing
grade in this course.
Prerequisite(s): GY 430

GY439 GIS Programming
Hours 4
This course focuses on the extension of geographic information systems
(GIS) through programming as well as on the development of stand-alone
algorithms for spatial analysis and numerical modeling.
Prerequisite(s): GY 429 or GY 430
GY440 Commun Facil Planning  
W  
Hours 3  
Principles, processes, and analysis of public facility location planning, with emphasis on the spatial search process, impact analysis, and public facility location models.

GY441 Land Use Regulations  
Hours 3  
Theory and use of zoning, eminent domain, taxing and police powers, enabling acts, charters, official maps, codes, nuisance ordinances, and environmental impact statements in community planning.

GY442 GIS in Biogeography  
Hours 4  
Addresses the application of GIS data and methods in analyzing geographic distribution and trends of plants and animals. Labs draw data and methods from a variety of biogeographic contexts including historical, modern, terrestrial, marine, conservation, and climate change.

Prerequisite(s): GY 430

GY444 Field Studies In Africa  
Hours 6  
Three-week intensive field study in Ghana. Explores geographical perspectives on Africa's level of development and the responses of the African peoples to their circumstances.

GY445 Agriculture: Environment and Development  
Hours 3  
This course examines the geographical elements of how people use the biophysical environment to grow domesticated plants (crops). Agriculture is understood in this course as the transformation of biophysical or "natural" environments into "cultural" environments. It is assessed in regard to both the plants cultivated, and the soil, slope, moisture, and temperature conditions that exist and then are modified or created by farmers. Ecological and systematic approaches are taken in order to understand how different agricultural strategies ensure continual long-term productivity and stability. Microeconomics is an important and recurring theme.

Prerequisite(s): GY 105 or GY 110 or instructor permission

GY450 Conservation Field Studies in Belize  
Hours 6  
Study Belize's diverse rainforests, coral reefs, and visit Mayan ruins for a glimpse into a past civilization. Belize is unique in that it still contains relatively undisturbed rainforests and the longest barrier reef in the Western Hemisphere. However, while Belize has emerged as an international leader regarding conservation efforts, threats from climate change, poverty, and development still exist. The purpose of this course is 1) examine current conservation efforts to safeguard this biodiversity; 2) familiarize students with the most important aspects of tropical lowland terrestrial and marine ecosystems; 3) understand the role of local culture in sustainable conservation; 4) gain an understanding of the fundamental importance of biodiversity; and 5) expose students to new and unique cultures and environments. The course is designed for students who are interested in conservation issues, biogeography, marine sciences, ornithology and birding, archaeology, and outdoor adventures.

Prerequisite(s): GY 102

GY452 Environ Decision Making  
Hours 3  
Review of the history of natural resources in the U.S. and current environmental topics, followed by discussion of techniques to facilitate environmental decision making and management.

GY453 Environment & Society  
W  
Hours 3  
Exploration of the linkages between the biophysical environment and human social systems. Public policy implications are viewed from a social science perspective. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): GY 110

GY454 Costa Rica Field Studies: Tropical Ecology, Conservation, and Development  
Hours 4  
This program will provide students with a broad interdisciplinary experience encompassing tropical ecology, conservation and development (TECD) in a highly experiential learning context.

GY455 Planning Practicum  
Hours 3-9  
Individual work experience in planning, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 455 cannot be applied to the geography minor.

GY456 Planning Internship  
Hours 3-9  
Individual work experience in planning, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 456 cannot be applied to the geography minor.

GY458 Urban Planning And Analysis  
W  
Hours 3  
A study of contemporary urban landscapes, political and economic power structures, and resultant conflicts. Includes an in-depth analysis of the role of externalities, the urban planner, urban policymaking, and analytical methods in the planning and administration of urban landscapes.

Writing

GY459 Community Organizing And Activism  
W  
Hours 3  
Study the theoretical and practical aspects of community organizing and activism. Examination of historical, political, and cultural factors in community organizing, the role of activists, and strategies for community-building.

Prerequisite(s): GY 102

GY460 Urban Planning And Analysis  
W  
Hours 3  
A study of contemporary urban landscapes, political and economic power structures, and resultant conflicts. Includes an in-depth analysis of the role of externalities, the urban planner, urban policymaking, and analytical methods in the planning and administration of urban landscapes.

Writing

GY463 Ecosystem Services: Theory and Practice  
Hours 4  
This course will prepare students to function effectively as future researchers and policy-makers on topics related to sustainability and sustainable management of ecosystem-oriented projects and activities. The concept of ecosystem services provides one approach to facilitate trade-off decision making to identify win-win strategies among multiple stakeholders with often conflicting near-term objectives.
GY465 Region Planning Analysis  
Hours 3  
Principles and processes of regional planning and the analytical methods appropriate for solving regional planning problems. Case studies and the role of the planner in the regional planning process are discussed.

GY466 Transport Geography  
Hours 3  
Examines the location and function of the multimodal North American transportation system, the urban transportation planning process and methodologies. Assesses the political and environmental contexts of transport systems, including impacts of continued reliance on the automobile.

Prerequisite(s): GY 105 or GY 110, or instructor permission

GY470 Special Topics  
Hours 3  
No description available

GY472 Soil Science  
Hours 4  
Three hours lecture and required field and lab work. Introduction to the study of soils, including soil formation, classification, and the interpretation of soils to reconstruct environmental histories.

GY473 Public Policy Development in Water Resources  
Hours 3  
This course will evaluate the current approaches to policy theory and examine systematically the broader implications of the substantive aspects of public policy development in the water resources spectrum. In analysis of public policy development in water resources, the student will look at both policy process and policy substance. Attention will be given to the questions of how and why water policy differs across states, and how one might evaluate policy performance cross-nationally.

GY477 Water Resources Management, Law, and Policy  
Hours 3  
The Water Resources Management, Law, and Policy course will provide students with a survey of water resources development, control, law, policy and management with particular emphasis on public policy considerations including: the acquisition and exercise of water rights —appropriative and riparian; groundwater management; water districts and user organizations; environmental considerations; Federal/State relations including interstate allocation; and the Alabama Water Resources Act. The course will also address international water law—the multinational treaties, laws, cases, practices and politics governing Earth’s transboundary freshwater resources (watercourses including rivers, streams, lakes, and groundwater aquifers) shared by two or more countries.

Prerequisite(s): GY 101 and GY 102; or GEO 101

GY483 Environment Science Internship  
Hours 3-9  
Individual work experience in environmental science, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 483 cannot be applied to the geography minor.

GY485 River Hydrology  
Hours 3  
Rivers are dynamic natural systems that are of great importance to ecosystems and society. This course examines river hydrology processes from a physical geography perspective. A major theme of the course will be impacts of human actions on river systems.

Prerequisite(s): GY 101 or GY 102

GY486 Watershed Dynamics  
W  
Hours 3  
An examination of the physical operation of watersheds focusing on surface water hydrology, erosion, and sedimentation. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): GY 102

Writing

GY489 Forest Ecology Veg Analy  
W  
Hours 4  
Three hours lecture and required field work. Study of the nature of forest communities and the interrelationship of organisms that compose them.

Writing

GY490 Geography Internship  
Hours 3-9  
Work experience in an agency involved in geographical analysis. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 490 cannot be applied to the geography minor.

GY491 Fluvial Geomorphology  
W  
Hours 3  
This course provides an in-depth investigation of the processes that determine the form and evolution of rivers and streams. Questions addressed by this course include the following. What processes determine the form and evolution of rivers and streams? How can we infer process from form and vice versa? How do river form and process vary spatially and temporally? What principles of fluvial geomorphology are needed for river restoration and management? The course will combine lectures, discussions, field data collection, and modeling activities. This course can be taken for writing credit. Therefore, TWO INDIVIDUAL writing assignments are required. In order to earn a passing grade in this course, you will be required to demonstrate writing proficiency to standards expected for the geosciences. A student who does not write with the skill normally required of an upper division student in the geosciences will not be given a passing grade, no matter how well they perform on other course components.

Prerequisite(s): GY/GEO 363 Geomorphology

Writing
GY492 Eastern Forest Communities and Silvics  
Hours 4  
This field course is focused on the biotic and abiotic elements that create distinct forest communities throughout the eastern US, with a particular emphasis on woody plant assemblages including the silvics of dominant and indicator species in different community types. Applications to forest management are stressed.  
Prerequisite(s): GY 101 or GY 102 or BSC 114

GY494 Forest Measurement & Methods  
Hours 4  
This course is designed to provide students with a theoretical foundation and practical experiences in measuring, inventorying, and describing trees, stands, and forests.  
Prerequisite(s): GY 101 or GY 102 or BSC 114 or BSC 116

GY495 Coastal Geomorphology  
Hours 3  
The coastlines of the world, at the triple interface of land, sea, and air, are dynamic geomorphic environments. They are often subject to abrupt changes, associated with storms for example, as well as slower, long-term changes, such as those associated with sea level change. Coastal environments are home to most of the earth’s human population and they include, at the same time, some of the most hazardous of locations. The purpose of this course is to provide a general introduction to the subject of coastal geomorphology, with emphasis on coastal environments and landforms, and with a survey of coastal processes.

GY496 Forest Ecosystem Management: Silviculture  
Hours 4  
In this course silviculture is treated as applied forest ecology. The goal of this course is to provide students with a knowledge of silviculture and its ecological basis so they can design manipulations in forest ecosystems to achieve a range of management objectives. The course requires field trips to tour different sites and visit with forest scientists and managers. In this course students learn about tree growth and stand development and use this information to develop silvicultural prescriptions to meet a diverse range of management goals. We will explore how silvicultural treatments can influence stand structure and composition and how these changes influence timber quantity and quality, forest health, biodiversity, soil, and wildlife habitat among other features. We will also focus on how silviculture is influenced by broader social, economic, and ecological issues.  
Prerequisite(s): GY489 or GY409 or GY492 or GY494 or instructor permission

HEB101 Elem Hebrew Language  
FL  
Hours 3  
Contemporary Hebrew: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering for permission. Not repeatable without permission of the CLC director. Offered each semester.

Foreign Language

HEB102 Elem Hebrew Language  
FL  
Hours 3  
Contemporary Hebrew: speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.  
Prerequisite(s): HEB 101

Foreign Language

HEB201 Intermed Hebrew Language  
Hours 3  
Continuation of Hebrew language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.  
Prerequisite(s): HEB 102

HEB202 Intermed Hebrew Language  
Hours 3  
Continuation of HEB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without consent of CLC director. Offered according to demand.  
Prerequisite(s): HEB 102

HIN101 Elementary Hindi  
FL  
Hours 3  
Contemporary Hindi: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director.

Foreign Language
HIN102 Elementary Hindi
FL
Hours 3
Contemporary Hindi: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a "language trainer" who is a native/near native/superior-level speaker of the language. This is a SUPERVISED-SELF-STUDY class. The language "trainer" will help students develop their communicative ability during class meetings. During the sessions, students will actively participate in practicing spoken language to acquire better pronunciation and conversation skills. English use will be kept to a minimum in class. Language trainers will monitor active participation throughout the semester by use of the STUDENT.
Prerequisite(s): HIN 101
Foreign Language

HY101 Western Civ To 1648
HI
Hours 3
A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe. Usually offered in the summer session.
History

HY102 Western Civ Since 1648
HI
Hours 3
Covers the development of the Western world from the Thirty Years’ War to the post-World War II era: the age of absolutism, the Enlightenment, the French Revolution, industrialization and the wars of the 20th century. Usually offered in the summer session.
History

HY103 History of American Civilization to 1865
HI
Hours 3
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.
Prerequisite(s): None
History

HY104 America Civilization Since 1865
HI
Hours 3
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.
Prerequisite(s): None
History

HY105 Honors West Civ To 1648
HI, UH
Hours 3
Honors sections of HY 101.
History, University Honors

HY106 Honors West Civ Sc 1648
HI, UH
Hours 3
Honors sections of HY 102.
History, University Honors

HY107 Honors American Civilization to 1865
HI, UH
Hours 3
An honors-level approach to the American experience; parallel to HY 203.
Prerequisite(s): Invitation of the department or membership in the University Honors Program.
History, University Honors

HY108 Honors American Civilization Since 1865
HI, UH
Hours 3
An honors-level approach to the American experience.
Prerequisite(s): Invitation of the department or membership in the University Honors Program.
History, University Honors

HY111 Colonial Latin America
HI
Hours 3
Formation of the largely Spanish speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.
Prerequisite(s): None
History

HY112 Modern Latin America Since 1808
HI
Hours 3
Survey of political, economic, and social life in the 19th and 20th centuries with emphasis on the larger countries (Brazil, Mexico, and Argentina).
Prerequisite(s): None
History
HY113 Asian Civilization to 1400
HI
Hours 3
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan and Southeast Asian, with large cultural and religious emphases.
Prerequisite(s): None
History

HY114 Modern Asia since 1400
HI
Hours 3
Conditions of various Asian civilizations in the 15th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism and Asian nationalism.
Prerequisite(s): None
History

HY115 History of Science to 1687
HI
Hours 3
This course will explore the origins and evolution of science and technology and the relationship both had to the societies that produced them. In addition to reading foundational texts in the history of science, like Aristotle and Galileo, we will address larger themes, including the relationship between science and religion and the role of science and scientists in the societies that produced them.
History

HY116 History of Science Since 1687
HI
Hours 3
Science and technology are ever-present in today's world, defining not only how we live our daily lives but also shaping our conceptions and evaluations of modernity, civilization, and progress. How did science and technology become so important and pervasive to the modern world? This course is intended as an introduction to the history of modern science and technology from the Enlightenment to the present. Our focus will be on the development of science and technology in the Western World (Europe and North America). However, we will also make comparisons across cultures to explore how science and technology shaped notions of what counts as "Western" and "modern." In addition to learning about key developments in the history of science and technology, from Ford's Model-T to Einstein's theory of relativity, we will address larger themes, including the relationship between science and religion and the role of technology in war and empire.
History

HY117 World History to 1500
HI
Hours 3
This course examines the political, economic, religious and social history of the world from the first civilizations that emerged around 3000 BC to about the year AD 1500. In this course we will discuss the creation of civilizations, the rise and fall of empires, and the similarities and differences between these various cultures with regard to their development. As this is an introductory course to world history, it is important to note that we will not be able to delve too deeply into any one topic.
History

HY118 World History Since 1500
HI
Hours 3
This course is a continuation of HY 117, Comparative World Civilizations. The course will examine the interactions between major world civilizations in Europe, Africa, and Asia. Course material will examine developments of history, politics, economics, and religion since 1500.
History

HY225 Hy Alabama To 1865
Hours 3
State history under the flags of Spain, France, Great Britain, the U.S., and the Confederate States, with emphasis on cultural heritage.

HY226 Hy Alabama From 1865
Hours 3
Survey of Alabama's history and personalities since 1865: Reconstruction, agrarian revolt, Progressivism, the KKK, Dixiecrats and the Civil Rights movement.

HY235 Christ Church To 1500
Hours 3
Survey of the Christian church from its origins in the Middle East through its victory over the Roman Empire and its ascendancy in the Middle Ages.

HY247 England To 1688
Hours 3
History of Western civilization in one country, from Anglo-Saxon times to the growth of absolutism and resistance.

HY248 England Since 1688
Hours 3
England from the Glorious Revolution to the post-World War II era, with emphasis on social and cultural topics as well as foreign affairs.

HY295 Us Naval History
Hours 3
Traces the development of the U.S. Navy from sailing ships to nuclear vessels, and relates it to political and economic conditions and to wars throughout American history.

HY300 Special Studies in History
Hours 3
Special studies in history. May be repeated for a maximum of 18 hours.
HY301 Independent Study
Hours 1-3
Directed study done by special arrangement with a faculty member of the History Department. Requires sophomore standing and permission of the instructor.

HY305 Topics in European History
Hours 3
This course covers a range of special topics in European History. Typically taught as a combination of lecture and discussion, with emphasis on primary sources, its topics cover major themes in medieval, early-modern, and modern European civilization. These include, among others, the origins of medieval and early modern Europe, national and cultural identity, revolution, gender, sexuality, consumerism, daily life, war, transnational exchange, and the environment.

HY306 Topics in American History
Hours 3
This course covers a range of special topics in American History. Typically taught as a combination of lecture and discussion, with emphasis on primary sources, its topics will include, among others, the indigenous and European encounters, colonial and constitutional history, the development of the American nation, race, slavery, and civil war, the World Wars and the Cold War, American foreign policy, and the civil rights movement.

HY307 Topics in Latin American, Asian, Middle Eastern, or African History
Hours 3
This course covers a range of special topics in Latin American, Asian, Middle Eastern or African History. Typically taught as a combination of lecture and discussion, with emphasis on primary sources, its topics include, among others, national and cultural identity, revolution, gender, sexuality, consumerism, daily life, war, transnational exchange, and environment.

HY308 Colonial America
Hours 3
History of the social, cultural, and political interactions of all the peoples in early North America and the Caribbean from the sixteenth century through the 1760s, with an emphasis on the diversity of experiences across categories of race, gender, socioeconomic status, religion, and age.

HY312 American South Before 1865
Hours 3
The South from colonial times to the Civil War, tracing the growth of the plantation system, extension of the frontier, commerce and industry, cultural influences, and the institution of slavery.

HY313 American South Since 1865
Hours 3
History of the South since 1865, covering Reconstruction, the Bourbon Democracy, the New South Creed, populist revolt, World War I, the 1920s, the Great Depression, the civil rights movement, and Southern politics.

HY314 Coming Of The Civil War
Hours 3
American history from 1815 to 1861, giving special emphasis to the development of a distinctive American culture and the factors within that culture that led to the Civil War.

HY315 The Civil War
Hours 3
The military, political, diplomatic, social, and intellectual aspects of the Civil War years, and the impact of the war on subsequent American history.

HY316 Life & Legend Abraham Lincoln
Hours 3
The life and legend of the man often considered to be the representative American.

HY318 U S Since 1945
Hours 3
Topical survey of the economic, social, political, and cultural developments in the United States since World War II.

HY319 19th Century Black History
Hours 3
Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

HY320 20th Century Black History
Hours 3
The interrelationship of blacks and the industrial-urban environment of the United States.

HY323 Us Constitut Hy to 1877
Hours 3
Deals with the evolution of constitutional law and the nature and process of judicial review, including 18th-century constitutional theory and Supreme Court decisions.

HY324 Us Constitut Hy sc 1877
Hours 3
Continuation of HY 323, tracing developments up to the current Supreme Court.

HY325 Us-World Power to 1898
Hours 3
Emphasizes idealism and realism in foreign policy, the change from isolationism to international involvement, "New Manifest Destiny," and the rise of America to world power.

HY326 Us-World Power sc 1898
Hours 3
Emphasizes American international involvement through the Panama Canal, the Roosevelt Corollary, World War I and the League of Nations, Pearl Harbor and World War II, the Cold War, Vietnam War, and after.

HY327 Women in Early America
Hours 3
Examines the history of women in early North America from 1660 to 1877.

HY330 Civil Rights Movement
Hours 3
History of the leaders, organizations, and events of the Civil Rights Movement during the years 1945 to 1968.
HY331 Religion and Civil Rights
Hours 3
Course Description: This course in History and African American Studies surveys the interaction of religion and civil rights during mid-twentieth century America. While national in scope, it will pay special attention to the place of Alabama and particularly Tuscaloosa. The guiding question for the course will be what difference religion make – or did not make – in the development of the civil rights movement.

HY332 Native American History
Hours 3
This course examines the histories of hundreds of indigenous peoples in North America from early human habitation to the present day, with a focus on those residing in what is now the United States and Canada. We will study their experiences; their encounters with one another, Europeans, and Africans; and the different histories that people have told about those experiences and encounters. Class materials, which include art, film, and fiction as well as history and anthropology, stress the diversity of Native lifeways as well as the ways in which the history of American Indians has often been ignored, changed, appropriated, and distorted, as well as reclaimed and re-evaluated over time. Some of the questions we will consider throughout the semester include: How much can we know about Indigenous peoples before they had an alphabetic written history? What can European sources teach us about the Native peoples they encountered? How did the Natives of North America live before 1492? Does it make any sense to generalize about "Indians," given that they include a large number of diverse peoples? How did contact with Europeans and Africans (and their diseases and technologies) change Native societies? How did Natives affect Europeans and Africans? Why did Native peoples lose ground (literally and figuratively) in the nineteenth century? How have Natives experienced and reacted to the changes of the twentieth century? What does it mean to be a Native person in the United States today?

HY333 America in the Progressive Era: A Nation Comes of Age
Hours 3
There have only been a handful of times in our nation’s history that can rightly be described as transformative. These have been eras in which, as Doris Kearns Goodwin cheerfully says, “a molt seems to take place, and an altered country begins to emerge.” In this context, we readily recall the American Revolution and the Civil War, but we may easily overlook the Progressive Era. To do so is a mistake that this course seeks to correct. For this was when the United States came of age as a world power, and also when Americans nationwide acquired a dynamic sense of their national identity. In vigorous and distinctive ways, Presidents Theodore Roosevelt and Woodrow Wilson reshaped America and left their distinctive imprints on our national character. Their joint legacy, rightly or wrongly, was to use the power of the national government to enlarge the scope of American democracy. The Progressive Era itself ended dismally in race riots, a frenzied Red Scare, and the inept presidency of Warren Harding, but the progressive spirit would continue to smolder and occasionally spark fires of idealism and renewed efforts to conquer new frontiers to the present day.

HY334 The Nineteenth Century City
Hours 3
Consider our ability to walk into a store and buy something already made off the rack. Or baseball, the All American sport. Or living in an apartment house beside people who are very different from us. What do these three things have in common? The answer is this: they can get us on our way to talking about the beginnings of city life in the United States during the nineteenth century. This course will explore the emergence of urban life in this country by exploring several issues, among them race, class, gender, culture, labor and geography.

HY335 Handmade Nation: Knitting and History
Hours 3
Knitting has enjoyed a huge comeback in the U.S. in the last decade, largely thanks to interest in DIY and environmentally sustainable consumption. This class explores the history, art, and politics of knitting. Students will learn to knit (or develop their skills as knitters) and also analyze knitting as a fascinating window onto the rest of the world. Topics explored include the craft’s history, women’s and men’s work, the politics of art vs. craft, consumerism, globalization, and the craft’s role in activism. Half of class time will be studio-based and half will focus on discussion of the readings. There are no prerequisites. You will also develop the ability to think historically through critical analysis of primary and secondary sources; place events, people, and documents in their historical contexts; and create your own historical interpretations and narratives about the past. In this course, you should expect to do much more than memorize facts or dates – you will be busy actively learning by knitting and doing history, not passively sitting back and being told what to think.

HY336 U.S. Disability History
Hours 3
This course places the experiences of people with disabilities at the center of the American story, from long before Europeans arrived in North America through today. We will explore the changing lives of people with disabilities—from railroad workers and rights activists to wheelchair athletes and participants in freak shows to college students and more—as well as the history of disability policy and conceptions of disability. We will focus on the social and cultural history of disability rather than its strictly physical or medical aspects. U.S. Disability History takes a new approach to familiar topics in U.S. history, including colonization, slavery, immigration, racial and gender stereotypes, education, civil rights, and citizenship, among others.

HY337 Hy US - Vietnam War
Hours 3
Survey of the historical background of the conflict in Indochina leading to U.S. involvement and its consequences.

HY345 Race and Science
Hours 3
Race and Science examines the diverse interactions between science and race from the 18th century to the present era of human genomics. The class looks both at the scientific study of race and the impact of racial concepts on science. These interactions have given us: Nazi medicine, American eugenics, the Tuskegee experiments, and “race specific” contemporary pharmaceuticals. By the end of this course, students will have the opportunity to write (with consultation) a publishable-quality essay on one aspect of this important issue in history and bioscience ethics.
HY346 Epidemics! A History of Medicine
Hours 3
The history of medicine is the history of disease. Plague, bloody flux, yellow fever, the flu, cholera, ebola, smallpox, AIDS — at one time or another, each of these terms inspired terror. They’ve entered our otherwise flourishing civilizations and, like a wildfire, cut down men, women, children, rich, poor, religious, non-believers, even the healers themselves. Like phantoms, they disappeared as fast as they came; but once introduced to these mysterious visitors, no society remained unchanged. In this history of medicine, we examine six major epidemics over the last three thousand years. We’ll then turn to three epidemics of the present: cancer, healthcare-associated infections, and bioterrorism. How have humans responded to these threats? How has medicine adapted, if it has? What are our triumphs and when have we been unable to stop our invisible adversaries?

HY349 History of France 1760-present
Hours 3
This course examines major trends in the social, cultural, economic and political history of modern France. Major themes include: republicanism and citizenship, nationalism, daily life, war, class conflict, consumerism, imperialism, the arts and gender.

HY355 German History Sc 1740
Hours 3
No description available

HY357 World War I
Hours 3
The war to end all wars,” from the European crises culminating at Sarajevo in 1914 to peacemaking at Versailles in 1919, with emphasis on the western and eastern fronts and on the war at sea.

HY358 World War II
Hours 3
The global conflict, or series of conflicts, from Manchukuo in 1931 to Tokyo Bay in 1945, with emphasis on battles on land and sea and in the air, life on the home fronts and in enemy-occupied areas, and the legacy of the war to future generations. Writing proficiency within this discipline is required for a passing grade in this course.

HY361 Russia to 1894
Hours 3
Political history of Russia from the ninth to the 19th centuries, followed by social and cultural history of the Russian revolutionary movement.

HY362 Russia-Soviet Union since 1894
Hours 3
Crisis in Russian society and the coming of the Revolution; the emergence of Stalinism; and political developments since World War II, including the disintegration of the Soviet system.

HY365 European Consumer Society
Hours 3
This course explores the evolution of modern Europe’s consumer society from the 18th century to the present to understand how changing patterns of consumption fostered new relationships between individuals and the material world.

HY368 From Columbus to Castro: Caribbean History Since 1492
Hours 3
Conquistadors! Planters! Pirates! Indians! Enslaved Africans! Religious Reformers! Independence Leaders! Radical Revolutionaries! Together these people built a new world — a world forged at the intersection of imperial ambitions and international contact, where the peoples and cultures of the Americas, Africa, and Europe collided. This class examines how colonialism, plantation slavery, the age of abolition, and the emergence of national independence movements made the modern Caribbean.

HY370 A History of the Atlantic World, 1400-1800
Hours 3
In what ways did the Atlantic Ocean resemble an early-modern super-highway, moving people, ideas, and products across its waters? How did the individuals who shaped this world — rebellious slaves, elite planters, Aztec emperors, wayward sailors, Kongolesse kings, infamous pirates and radical revolutionaries — contribute to the creation of this vibrant and dynamic world? A History of the Atlantic World answers these questions by tracing four centuries of interactions among Europeans, Africans and Native Americans, from the first European forays down the west coast of Africa in the fifteenth century, to the turbulent Age of Revolutions at the close of the eighteenth century.

HY371 History of Brazil
Hours 3
Why study Brazil? This South American nation is the fifth largest in the world in both geography and population. It is now home to the sixth largest economy in the world (surpassing the United Kingdom in 2013). Brazil is also a nation rich in racial, cultural, and linguistic diversity. In many ways, Brazil’s history of slavery, plantation agriculture, immigration, and industrialization offer a compelling distant mirror for understanding the trajectory of U.S. history and the rest of the Americas. In this class we will explore themes of gender, immigration, racial identity, industrialization, modernization, state formation, and dictatorship and democracy.

HY377 Mexico since 1810
Hours 3
Mexican Independence, the Constitution of 1824, Santa Anna, revolutions in the 19th and 20th centuries, and contemporary Mexico.

HY378 Drugs, Booze, and Mexican Society
Hours 3
This course is a hybrid survey of Mexican history since conquest, the history of the US-Mexican border, and a view of that history through the lens of drug production, consumption, and influence on Mexican society and US-Mexican relations. In short, the goal of this course is to impart an understanding of drugs as embedded in Mexican social, political, economic, and cultural contexts, providing students with a view from the Mexican side of the border. Alcohol and marijuana will be the focus of the course, but other substances will enter into certain readings throughout the semester. An important theme in this course is to answer the question “What are the origins of today’s War on Drugs?” In addition, the course will endeavour to provide a broader, international context for the development and use of intoxicants and the drug trade, both legal and illegal.
From the time of its incorporation into the Spanish Empire, the land now known as Argentina has held out the promise of fabulous wealth and opportunity. This potential made Argentina the foremost destination of European immigrants to Latin America in the nineteenth and twentieth centuries, during which time it became one of the wealthiest nations in the world. Many Argentines have anxiously awaited the day when their nation would be included among the ranks of “first world” or “civilized” nations, and they take great pride in their adoption and adaptation of European culture. However, Argentina’s history has not always been so rosy. Political violence, economic catastrophe, and social unrest define the modern Argentine experience as much as economic prosperity, industrialization, and the development of a rich and dynamic culture. From the gauchos (Argentine cowboys) of the vast Pampas to the smoke-filled tango parlors, immigrant tenements, and factories of Buenos Aires, Argentina offers a fascinating case for examining the creation and sustainment of identity and nationality in Latin America.

HY384 Ancient Egypt Near East
Hours 3
No description available

HY385 History Of Greece
Hours 3
No description available

HY386 History Of Rome
Hours 3
No description available

HY388 The Crusades
Hours 3
This course explores, from multiple perspectives, the troubled medieval marriage of religion and violence known as “the crusades.” It offers not only an overview of the traditional, largely military narrative of “numbered” crusades. It also explores the broader view – the general context of “holy war” down to c. 1100; tensions between the ideal and reality of crusading; the social and cultural impact of the crusades, for good and ill; the Muslim perception of the “Franj” as both invaders and neighbors, and the long aftermath of the crusades down through the early modern period. Later sessions of the course then turn to the range of contested historiographical issues that have characterized the study of the crusades in recent years. There are no pre-requisites for the course, though completion of our introductory Western Civilization course (HY 101/105) would be helpful.

HY395 History Colloquium
Hours 3
Intensive reading, writing, and discussion on special topics in history.
HY407 Topics in Latin American, Asian, Middle Eastern, and African History
W
Hours 3
This course covers a range of special topics in Latin American, Asian, Middle Eastern, and African history at the advanced undergraduate level. Normally taught as a relatively small course (enrollment of c. 25), it will emphasize close reading of primary sources, class discussion, and research and writing, including an series of extensive formal writing projects (usually a research paper of c. 10-15 pages). Topics will vary by instructor but will include major themes in the world civilizations. Also note that writing proficiency for this discipline is required for a passing grade in this course. Even if all other requirements are met, failure to meet the History Department’s writing standards will result in a failing grade.

Writing

HY408 Colonial Us to 1763
Hours 3
Topical survey of major themes in U.S. colonial history, with particular emphasis on Anglo-American developments.

HY409 Amer Rev/New Nation
W
Hours 3
The development of revolutionary sentiment in the North American colonies, the resulting revolution, and the subsequent efforts to establish the new nation. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY411 Comp. Slavery & Emancipation
Hours 3
Explores the development of slavery and the struggles for emancipation in the Americas 1400-1900. Focusing on how race, gender and region shaped experiences.

HY412 Slavery America Popular Cult
Hours 3
An examination of slavery in American popular culture from the 1840s to the present. Topics and media include fiction, autobiography, film and television, advertising, and confederate celebrations.
Prerequisite(s): HY 203

HY413 Mexican War Thru Civil War
W
Hours 3
Examines how Americans thought about and used armed force from 1845 to 1865. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY416 Us Fr Recons To Wwar I
Hours 3
Selected topics relating to the development of the U.S., especially domestic affairs and the growth of important institutions.

HY417 US from WWI to WWII
W
Hours 3

HY423 North American Borderlands: A Comparative History
Hours 3
This course begins with the Age of European Exploration, but the major focus will be on U.S.-Canadian, U.S.-Mexican, and Native American borderlands beginning with the 16th Century. Even though borderlands are frequently located at the peripheries of empires and nations, they play a major—and often overlooked—role in shaping how centers of national power—major cities, state governments, and national capitols—have defined their relation to issues such as territorial expansions, sovereignty, immigration, labor, community formation, and race and ethnicity. As a comparative course, we will address multiple themes, including legal regimes in the borderlands, inter-American power relations, immigration, citizenship, human rights, and sovereignty; intercultural and racial mixture and conflict; nationalism, transnationalism, and internationalism; openings and closing of borders; and the multiple meanings and locations of borderlands, making this course appropriate not only for students of history, but also of anthropology, sociology, and political science.

HY424 American Thought Before 1860
W
Hours 3
American intellectual/cultural history to 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender and race. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY428 Women In America
Hours 3
Examines the experiences of women from mid-nineteenth century to present with special attention to ideologies about women's roles and effects of region, race, class and ethnicity.

HY429 Spanish Frontier in N. America
Hours 3
History of the Spanish advance into the present-day borders of the U.S., explaining how Spain fought and finally succumbed to the more dynamic and aggressive French and English.

HY430 UG Research Seminar
W
Hours 3
This course offers students extensive training in research methods and writing. It will normally culminate in a 15 page research paper based on primary source materials, as well as an oral presentation. Instructors may also choose to offer a range of equivalent alternatives at their discretion. In all events the course will offer students a rewarding opportunity to practice the craft of historical research. A grade of C or higher is required for credit in the major, and writing proficiency within this discipline is required for a passing grade in this course.

Writing
HY432 Gender and Native Americans: Beyond Pocahontas
W
Hours 3
Explores contact between Native Americans and Europeans in the early Americas through attention to gender, stressing the diversity of Native life ways.

Writing

HY442 The Middle Ages
Hours 3
Foundations of the modern world in barbarian Europe: retreat into the countryside and private government, recovery of public institutions, money economy, and cultural vitality.

HY443 Renaissance
W
Hours 3
Study of intellectual movements associated with the Renaissance, including readings in Machiavelli’s Prince, More’s Utopia, and other humanist writings; social life, economy, religion, politics, and statecraft. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY444 Reform & Counter-Reformation
W
Hours 3
History of the separation of the Catholic and Protestant churches from the ideal of the universal Christian church and late medieval religious practice. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY446 Age of Reason 1715-89
Hours 3
The Enlightenment of Voltaire, Diderot, Rousseau, Franklin, Hume, Goethe, and Kant, whose writings exalted individual reason, tolerance, liberalism, science, and public service and set the stage for the French Revolution.

HY448 Women in Europe since 1750
Hours 3
This course surveys women’s lives in Europe from 1750 to the present. Themes explored include: identity construction, power relationships, domesticity, class, war, consumerism and sexuality.

HY451 Early Modern Germany
W
Hours 3
This course examines the political, religious, intellectual, military, cultural and social history of German speaking central Europe from the Eve of the Protestant Reformation to the eve of the French Revolution. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY455 The Darwinian Revolution
W
Hours 3
Though it is often believed to begin with Charles Darwin, Evolutionary Theory has a history dating back to the seventeenth century. In this course we will focus on this history from those early beginnings through modern genetics and epigenetics. Along with Charles Darwin himself, we will explore the contributions of other well-known scientists, such as Lamarck, Charles Lyell, T. H. Huxley, Gregor Mendel, and T. H. Morgan. Additionally, we will familiarize ourselves with the ideas of less well known but important individuals whose theories are crucial for understanding the development of evolutionary theory and the shaping of Darwin’s legacy. Throughout the course, we will also examine their contributions in specific historical contexts, pausing to pay particular attention to social responses to the developing theory of Darwinism. Ultimately, we will leave with a fuller understanding of and a greater appreciation for what we now term “evolutionary theory.” As a “W” course, writing proficiency within this discipline is required for a passing grade. In other words, no matter how well you do in other aspects of the course, you must write with the skill normally required of upper level students in History to pass. Written assignments will require coherent, logical, and carefully edited prose. Students will be required to demonstrate higher-level critical thinking skills.

Writing

HY471 Age Exploration & Conquest
Hours 3
A history of exploration during the 15th and 16th centuries, when European nations expanded by sea voyages and conquest, settling in the Americas, Africa, and Asia.

HY474 Relation US Latin Amer
W
Hours 3
Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY475 Caribbean Basin 1492 - Present
Hours 3
Traces the evolution of Caribbean and Central American nations from the first European settlements to the present.

HY480 Survey of Military History
Hours 3
Introduction to the ways in which human beings have organized and used armed force over the course of recorded history.

HY481 War/Dipl. in Med & Mod. Europe
W
Hours 3
This course examines developments in European warfare and diplomatic practice in the late medieval and early modern periods. Writing proficiency within this discipline is required for a passing grade in this course.

Writing
HY482 War & Religion in the West

W

Hours 3

This course examines the complex interrelationships between religion and armed conflict in the Western tradition from the ancient world into modern times. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY483 Thirty Years' War

Hours 3

This course explores the background, events, and consequences of the Thirty Years' War that raged in the center of Europe from 1618 to 1648. We will examine not only the history of the war itself, but also the multiple controversies that continue to divide scholars over the causes, nature, and significance of the conflict. Readings will include both primary and secondary sources.

HY490 England under Tudors

W

Hours 3

Development of an early modern state: establishment of a strong central monarchy, religious crises from the Reformation to the Puritan movement, and exuberance and excess of an expanding society. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY491 England under Stuarts

W

Hours 3

How Englishmen of the 17th century worked out the great questions of their day: Was liberty compatible with strong government? Could English elites share power without destroying it? What did God want for England? Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY493 Britain in the 18th Century

W

Hours 3

From the Hanoverian Succession in 1714 to victory at Waterloo in 1815: political development, the Agrarian and Industrial Revolutions, John Wesley, Samuel Johnson, and an apparently endless succession of wars. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HY494 Britain in the Victorian Age

W

Hours 3

Britain at her apogee: possessor of the empire on which the sun never set, world economic leader, nation of Peel and Palmerston, Gladstone and Disraeli, Dickens and Trollope, Tennyson and Browning, Turner and Constable.

Writing

HY498 Honors Thesis I

UH

Hours 3

Independent research and writing to produce a senior honors thesis in history.

University Honors

HY499 Honors Thesis II

UH, W

Hours 3

History 499 is the writing portion of the History honors thesis course sequence. Students taking HY 499 will have completed HY 498, Honors Thesis I, in which they will have selected and researched a topic in conjunction with their advising professor. Individual requirements may vary, but all honors theses will be based on original primary source research, and typically are about fifty pages/fourteen thousand words in length. The thesis will demonstrate advanced writing and research ability for the undergraduate level. Per the University designation for Writing courses, "Writing proficiency for this discipline is required for a passing grade in this course." Even if all other requirements are met, failure to meet the History Department's writing standards will result in a failing grade. In order to complete the course, two professors other than the professor of record must read and approve the final thesis.

Prerequisite(s): HY 399 and HY 498

University Honors, Writing

INDO101 Elem Indonesian Language

Hours 3

Contemporary Indonesian: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director.

INDO102 Elem Indonesian Language

Hours 3

Contemporary Indonesian: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director.

Prerequisite(s): INDO 101

INDO102 Elem Indonesian Language

Hours 3

Contemporary Indonesian: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director.

Prerequisite(s): INDO 101

INDO101 Elem Indonesian Language

Hours 3

Contemporary Indonesian: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director.

Prerequisite(s): INDO 102
IT101 Introductory Italian I  
Hours 4  
Five hours of instruction per week. The course is the first semester of college-level language study. Offered each semester.  
Foreign Language, Humanities  

IT102 Introductory Italian II  
Hours 4  
Five hours of instruction per week. The course is the second semester of college-level language study. Offered each semester.  
Prerequisite(s): IT 101 with a grade of C- or instructor permission  
Foreign Language, Humanities  

IT201 Intermediate Italian I  
Hours 3  
Basic grammar review, development of writing skills, and introduction to literature.  
Prerequisite(s): IT 102 with a grade of C- or instructor permission  
Humanities  

IT202 Intermediate Italian  
Hours 3  
Basic grammar review, development of writing skills, and introduction to literature.  
Prerequisite(s): IT 201 with a grade of C- or instructor permission  
Humanities  

IT233 Introduction to Italian Cinema  
Hours 3  
Chronological overview of the history of Italian cinema from its early days to the present. The course is in English and the films shown are in Italian with English subtitles. Writing proficiency within the discipline is required for a passing grade in this course.  
Writing  

IT352 Italian Conversation - Study Abroad  
Hours 3  
This course focuses on the development of conversational skills through group discussion, oral presentations, vocabulary building, and other related activities. It is taught at the Leonardo Da Vinci School in Florence, Italy. The Leonardo Da Vinci School is licensed by the Italian Ministry of Education and recognized by the Region of Tuscany as a Professional Training Center.  
Prerequisite(s): IT 102 and/or permission of the instructor.  

IT353 Italian Conversation  
Hours 3  
Development of conversational skills through role-playing, oral presentations, and vocabulary building. May be taken once in Italy (IT 352) and once on campus (IT 353).  
Prerequisite(s): IT 202 with a grade of C- or instructor permission  

IT354 ADVANCED GRAMMAR AND COMPOSITION – STUDY ABROAD  
Hours 3  
This is a combined writing theory and writing skills course focusing upon more advanced notions of Italian grammar and on the development of techniques for written expression. It is taught at the Leonardo Da Vinci School in Florence, Italy.  
Prerequisite(s): IT 102 and/or permission of the instructor.  

IT356 Adv Grammar Composition  
Hours 3  
A combined writing theory and writing skills course focusing upon more advanced notions of Italian grammar and on the development of techniques for written expression. May be taken once in Italy (IT 354) and once on campus (IT 356).  
Prerequisite(s): IT 202 with a grade of C- or instructor permission  

IT361 Intro Romance Linguistic  
Hours 3  
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.  
Prerequisite(s): No prerequisite because this course is taught in English.  

IT364 Masterpieces of Italian Literature in Translation: From the Middle Ages to Early Modernity  
Hours 3  
Study of major works in Italian literature and though from Dante to the early modern period. Who are we and what is our place in the universe? What do we know? What can we know? The men and women of Italy grappled with these questions—from Dante’s vision of hell to Galileo’s discoveries in the heavens, from Michelangelo’s exploration of the human form to Cesare Beccaria’s evaluation of the ethics of bodily torture. This course traces Italian literature and thought in the Middle Ages, Renaissance, Baroque, and Age of Enlightenment (13th-18th centuries). Through a broad spectrum of genres (poetry, epic, short stories, letters, comedy, treatises, dialogue, librettos), it examines questions of love, sin, beauty, power, appearance, truth, deception, and civility. By analyzing major moments in intellectual history, from the birth of humanism to the scientific revolution, this class also considers the role and importance of the liberal arts and suggests that in these centuries literature, art, music, theater, philosophy, history, and science were interwoven disciplines proper to man’s understanding of self and society.  
Literature  

IT380 Special Topics  
Hours 3  
May be repeated for credit if subject matter varies.  
Prerequisite(s): IT 353 or IT 356 with a grade of C- or instructor permission.
IT480 Undergraduate Seminar
Hours 3
The subject matter varies. Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses. May be repeated for credit. Offered according to demand.
Prerequisite(s): IT 380, or instructor permission.

JA101 Elementary Japanese I
FL, HU
Hours 4
Five hours of instruction per week. Acquisition of elementary Japanese language skills in listening, speaking, reading, and writing.
Foreign Language, Humanities

JA102 Elementary Japanese II
FL, HU
Hours 4
Japanese 102 is the successor of Japanese 101, and it is designed for beginning learners. Students will learn vocabulary and sentence structures for use in essential daily situations through various forms of communicative practice. While continuing to develop students’ communicative competence in Japanese, six cultural topics will be introduced and explored from each chapter of the textbook through short readings, lectures, and videos.
Prerequisite(s): JA 101
Foreign Language, Humanities

JA201 Intermediate Japanese I
HU
Hours 3
Japanese 201 is the successor of Japanese 102, and it is designed for intermediate learners. Students will learn vocabulary and sentence structures for use in essential daily situations through various forms of communicative practice. While continuing to develop students’ communicative competence in Japanese, five cultural topics will be introduced and explored from each chapter of the textbook through short readings about planning trip in Japan, Japanese and marriage and Japanese host family, lectures, and videos about Japanese famous sightseeing places. A continuation of JA 102.
Prerequisite(s): JA 102
Humanities

JA202 Intermediate Japanese II
HU
Hours 3
A continuation of JA 201.
Prerequisite(s): JA 201
Humanities

JA301 Third Year Japanese I
Hours 3
A continuation of JA 202. The course is for students who have a comprehensive grammatical knowledge and are already able to communicate in Japanese. Students will work in this class to improve the accuracy and authenticity of socially correct communication of Japanese. The instructor conducts the class extensively in Japanese whenever possible, and English explanations of the expressions will be minimal. Students are required to communicate entirely in Japanese in class.
Prerequisite(s): Complete/earn a grade of C or higher in JA202

JA302 Third Year Japanese II
Hours 3
A continuation of JA 301.
Prerequisite(s): Complete a grade of C or higher in JA 301 or consent of instructor

JA356 Traditional Japanese Lit Trans
W
Hours 3
Introduction to Japanese literature from the earliest times through the Tokugawa period. No knowledge of Japanese is required.
Writing

JA357 Japanese Literature & Film
Hours 3
Introduction to modern Japanese literature and movie from the Meiji period to the present. No knowledge of Japanese is required. Students will learn historical/technical aspects, and will develop critical thinking skills based on the reading of Japanese stories and viewing of Japanese films and understand the value of Japanese literature, artistic concept in cultural context.

JA371 Japanese Culture I
Hours 3
This course is for students who need fundamental knowledge of current Japanese culture. The topics include modern history, characteristics of Japanese business, social problems, traditional religious and philosophy of the Japanese people.
Prerequisite(s): JA 102

JA372 Japanese Culture II
Hours 3
This course is for students who need fundamental knowledge of current Japanese culture. The topics include traditional art forms, Buddhism sculptures, movies, traditional music and theater, subculture and marital arts.
Prerequisite(s): JA 102

JA390 Topics Japanese Studies
Hours 3
Discussion and research of various topics related to Japanese language/culture. Topics may change each semester, such as KANJI, or traditional and modern Japanese culture including theatrical arts, music, and religious thoughts of Japan. With permission of the program director, this course may be applied toward the Japanese minor.
JA410 4 Yr Read/Write Japanese
Hours 3
A continuation of JA 302 with emphasis on development of reading and writing skills.
Prerequisite(s): Earn a grade of C or higher in JA 302 or consent of instructor.

JA411 4th Year Spoken Japanese
Hours 3
A continuation of JA 410 with emphasis on development of reading and writing skills.
Prerequisite(s): Earn a grade of C or higher in JA 410 or consent of instructor.

JA481 Directed Readings
Hours 1-4
The purpose of the course is for students who have an advanced level of proficiency in Japanese to obtain a higher level of Japanese reading and writing ability (equivalent to ####### 1#). The instructor will conduct the class in Japanese except for the study of translation / interpretation. Students are required to read short novels, newspaper articles, journals, and stories for specified topics, and discuss in Japanese during the class meetings. Also students write papers in Japanese.
Prerequisite(s): Complete/earn a grade of B- or higher in JA 411.

JA482 Directed Readings
Hours 1-4
The purpose of the course is for students who have an advanced level of proficiency in Japanese to obtain a higher level of Japanese reading and writing ability (equivalent to ####### 1#). The instructor will conduct the class in Japanese except for the study of translation / interpretation. Students are required to read short novels, newspaper articles, journals, and stories for specified topics, and discuss in Japanese during the class meetings. Also required is the writing of papers in Japanese.
Prerequisite(s): JA481 or consent of instructor.

KOR102 Elementary Korean
FL
Hours 3
Contemporary Korean: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director. Offered each semester. This is a SUPERVISED-SELF-STUDY class. The language “trainer” will help students develop their communicative ability during class meetings. During the sessions students will actively participate in practicing spoken language to acquire better pronunciation and conversation skills. English use will be kept to a minimum in class. Language trainers will monitor active participation throughout the semester by use of the STUDENT PERFORMANCE SHEET reports which will be sent to the director of the CLC. Regular class attendance and participation is required.
Prerequisite(s): KOR 101
Foreign Language

KOR201 Intermediate Korean
Hours 3
Continuation of Korean language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 102

KOR202 Intermediate Korean
Hours 3
Continuation of KOR 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): KOR 201

LA101 Elementary Latin I
FL, HU
Hours 3
Beginning fundamentals of Latin grammar and syntax. Offered in the fall semester.
Foreign Language, Humanities

LA102 Elementary Latin II
FL, HU
Hours 3
Continued study of the fundamentals of Latin grammar and syntax. Offered in the spring semester.
Prerequisite(s): LA 101
Foreign Language, Humanities
LA201 Intermed Latin Read I

HU

Hours 3

Introduction to and practice at reading Latin literature. Offered in the fall semester.

Prerequisite(s): LA 102

Humanities

LA202 Intermed Latin Read II

HU

Hours 3

Selected readings from Latin literature. Offered in the spring semester.

Prerequisite(s): LA 201

Humanities

LA301 Survey Lit Roman Republ

Hours 3

Readings in Latin literature to the time of Julius Caesar. Offered in the fall semester.

LA302 Survey Lit Of Empire

Hours 3

Selected readings in later Roman literature. Offered in the spring semester.

LA490 Readings In Latin Literature

Hours 3

The subject matter varies. May be repeated for credit. Offered according to demand.

Prerequisite(s): LA 301 or LA 302

MATH100 Introductory Algebra

Hours 3

Brief review of arithmetic operations and basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

MATH100 Intermediate Algebra

Hours 3

Prerequisites: Placement and two units of college-preparatory mathematics; if a student has previously been placed in MATH 005, a grade of "C-" or higher in MATH 005 is required. Intermediate-level course including work on functions, graphs, linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. The solution of word problems is stressed. NOT APPLICABLE to UA Core Curriculum mathematics requirement. Grades are reported as A, B, C or NC (No Credit).

MATH110 Finite Mathematics

MA

Hours 3

This course is intended to give an overview of topics in finite mathematics with applications. This course covers mathematics of finance, logic, set theory, elementary probability and statistics. This course does not provide sufficient background for students who will need to take Precalculus Algebra or Calculus.

Prerequisite(s): UA Math Placement Test Score of 190-600 or ACT Math Subscore of 18 or old SAT Math Subscore of 440 or new SAT Math Subscore of 480 or a C- or higher in MATH 100

Mathematics

MATH112 Precalculus Algebra

MA

Hours 3

A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions. Graphs of these functions are stressed. The course also includes work on equations, inequalities, systems of equations, the binomial theorem, and the complex and rational roots of polynomials. Applications are stressed. Grades are reported as A, B, C or NC (No Credit). Degree credit will not be granted for both MATH 115 and (MATH 112 or MATH 113).

Prerequisite(s): UA Math Placement Test Score of 310-439 or ACT Math Subscore of 24 or old SAT Math Subscore of 560 or new SAT Math Subscore of 580 or C- or higher in MATH 100

Mathematics

MATH113 Precalculus Trigonometry

MA

Hours 3

Continuation of MATH 112. The course includes study of trigonometric functions, inverse trigonometric functions, trigonometric identities and trigonometric equations. Complex numbers, De Moivre's Theorem, polar coordinates, vectors and other topics in algebra are also addressed, including conic sections, sequences and series. Grades are reported as A, B, C or NC (No Credit). Degree credit will not be granted for both MATH 115 and (MATH 112 or MATH 113).

Prerequisite(s): C- or higher in MATH 112

Mathematics

MATH115 Precalc Algebra & Trig

MA

Hours 3

Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates. Grades are reported as A, B, C, or NC (No credit). Degree credit will not be granted for both MATH 115 and (MATH 112 or MATH 113).

Prerequisite(s): UA Math Placement Test Score of 370-439 or ACT Math Subscore of 28 or old SAT Math Subscore of 630 or new SAT Math Subscore of 650

Mathematics
MATH121 Calculus & Applications
MA
Hours 3
A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration. This course does not provide sufficient background for students who will need higher levels of Calculus. Note: This course does not satisfy the requirement for MATH 125 or 126. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): UA Math Placement Test Score of 440-600 or ACT Math Subscore of 30 or old SAT Math Subscore of 680 or new SAT Math Subscore of 710 or a C- or higher in MATH 112 or MATH 115.
Mathematics

MATH125 Calculus I
MA
Hours 4
This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus. There is also a brief review of selected precalculus topics at the beginning of the course. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): MATH 113 and MATH 112; or MATH 115
Mathematics

MATH126 Calculus II
MA
Hours 4
This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L'Hopital's Rule, improper integrals, infinite series, conic sections, plane curves, parametric equations, and polar coordinates.
Prerequisite(s): A grade of B- or higher in MATH 125 or MATH 145 or a score of 4 or 5 on AP Calculus AB or a score of 4 or 5 on AP Calculus BC: AB Subscore.
Mathematics, University Honors

MATH145 Honors Calculus I
MA, UH
Hours 4
This course covers the same material as MATH 125 but in a depth appropriate for honors students. It is the first course in the three part honors calculus sequence for students majoring in mathematics, science or engineering. Topics include limits, continuity, differentiation, applications of differentiation, and integration. Applications of the derivative are covered in detail, including approximation of errors using differentials, maxima and minima problems, curve sketching, optimization problems, and Newton's method. Topics on integration include Riemann sums, properties of definite integrals, integration by substitution and integrals involving logarithmic exponential and trigonometric functions.
Prerequisite(s): ACT Math Subscore of 32 or old SAT Math Subscore of 730 or new SAT Math Subscore of 760 or a B- or higher in (MATH 112 and MATH 113) or MATH 115
Mathematics, University Honors

MATH146 Honors Calculus II
MA, UH
Hours 4
This course covers the same material as MATH 126 but in a depth appropriate for honors students. It is the second course in the three part honors calculus sequence for students majoring in mathematics, science or engineering. Topics include vectors and the geometry of space, L'Hospital's Rule, applications of integration, integration techniques, improper integrals, infinite series, conic sections, plane curves, parametric equations, and polar coordinates.
Prerequisite(s): A grade of B- or higher in MATH 125 or MATH 145 or a score of 4 or 5 on AP Calculus AB or a score of 4 or 5 on AP Calculus BC: AB Subscore.
Mathematics, University Honors

MATH208 Number And Operations
Hours 3
Arithmetic of whole numbers and integers, fractions, proportion and ratio, and place value. Class activities initiate investigations underlying mathematical structure in arithmetic processes and include hands-on manipulatives for modeling solutions. Emphasis is on the explanation of the mathematical thought process. Students are required to verbalize explanations and thought processes and to write reflections on assigned readings on the teaching and learning of mathematics.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 125
Mathematics

MATH209 Geometry & Measurement
Hours 3
Properties of two- and three-dimensional shapes, rigid motion transformations, similarity, spatial reasoning, and the process and techniques of measurement. Class activities initiate investigations of underlying mathematical structure in the exploration of shape and space. Emphasis is on the explanation of the mathematical thought process. Technology specifically designed to facilitate geometric explorations is integrated throughout the course.
Prerequisite(s): MATH 208
MATH210 Data Analysis Probabil Stats
Hours 3
Data analysis, statistics, and probability, including collecting, displaying/representing, exploring, and interpreting data, probability models, and applications. Focus is on statistics for problem solving and decision making, rather than calculation. Class activities deepen the understanding of fundamental issues in learning to work with data. Technology specifically designed for data-driven investigations and statistical analysis is integrated throughout the course.
Prerequisite(s): MATH 208

MATH227 Calculus III
MA
Hours 4
This is the third of three courses in the basic calculus sequence. Topics include: vector functions and motion in space; functions of two or more variables and their partial derivatives; and applications of partial derivatives (including Lagrange multipliers), quadric surfaces, multiple integration (including Jacobian), line integrals, Green's Theorem, vector analysis, surface integrals and Stokes' Theorem.
Prerequisite(s): A grade of B- or higher in MATH 126 or MATH 146 or a score of 4 or 5 on AP Calculus BC exam.

MATH237 Introduction to Linear Algebra
C, MA
Hours 3
Fundamentals of linear algebra and matrix theory are covered. Topics include vectors in Euclidean spaces, solving systems of linear equations, matrix algebra, inverses, determinants, eigenvalues, and eigenvectors. Also vector spaces and the basic notions of span, subspace, linear independence, basis, dimension, linear transformation, kernel and range are considered. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (MATH 126 or MATH 146) and CS 102

MATH238 Appld Diff Equations I
C, MA
Hours 3
Introduction to analytic and numerical methods for solving differential equations. Topics include numerical methods and qualitative behavior of first order equations, analytic techniques for separable and linear equations, applications to population models and motion problems; techniques for solving higher order linear differential equations with constant coefficients (including undetermined coefficients, reduction of order, and variation of parameters), applications to physical models; the Laplace transform (including initial value problems with discontinuous forcing functions). Use of mathematics software is an integral part of the course. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (MATH 126 or MATH 146) and CS 102

MATH247 Honors Calculus III
MA, UH
Hours 4
This course covers the same material as MATH 227 but in a depth appropriate for honors students. It is the third course in the three part honors calculus sequence for students majoring in mathematics, science or engineering. Topics include analytic geometry in space, vector-valued functions and motion in space, functions of two or more variables and their partial derivatives, applications of partial differentiation (including Lagrangian multipliers), quadric and cylindrical surfaces, and multiple integration (including Jacobian) and applications, line integrals, Green's Theorem, curl and divergence, surface integrals, and Stokes' Theorem.
Prerequisite(s): (MATH 227 or MATH 247) and (CS 100 or AEM 249 or ECE 285 or RRS 101)

MATH300 Intro Numerical Analysis
Hours 3
Credit will not be granted for both MATH 300 and MATH 411. A beginning course in numerical analysis. Topics include number representation in various bases, error analysis, location of roots of equations, numerical integration, interpolation and numerical differentiation, systems of linear equations, approximations by spline functions, and approximation methods for first-order ordinary differential equations and for systems of such equations.
Prerequisite(s): (MATH 227 or MATH 247) and (CS 100 or AEM 249 or ECE 285 or RRS 101)

MATH301 Discrete Mathematics
W
Hours 3
An introduction to mathematical logic and proof within the context of discrete structures. Topics include basic mathematical logic, elementary number theory, basic set theory, functions, and relations. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MATH 125 or MATH 145

MATH302 Topics in Discrete Mathematics
W
Hours 1
A supplemental course in discrete mathematics covering select topics of interest in computer science. Topics include graphs and trees, finite state automata and regular expressions, efficiency of algorithms.
Prerequisite(s): MATH 301

MATH343 Appl Diff Equations II
C, MA
Hours 3
Continuation of Appl Diff Equations I (Math 238) and is designed to equip students with further methods of solving differential equations. Topics include initial value problems with variable coefficients, methods of infinite series, two-point boundary value problems, wave and heat equations, Fourier series, Sturm-Liouville theory, phase plane analysis, and Liapunov's second method.
Prerequisite(s): MATH 238
MATH355 Theory Of Probability
Hours 3
The foundations of the theory of probability, laws governing random phenomena and their practical applications in other fields. Topics include: probability spaces; properties of probability set functions; conditional probability; and an introduction to combinatorics, discrete random variables, expectation of discrete random variables, Chebyshev's Inequality, continuous variables and their distribution functions, and special densities.
Prerequisite(s): MATH 227 or MATH 247

MATH371 Advanced Linear Algebra
Hours 3
Topics include inner product spaces, norms, self adjoint and normal operators, orthogonal and unitary operators, orthogonal projections and the spectral theorem, bilinear and quadratic forms, generalized eigenvectors, and Jordan canonical form.
Prerequisite(s): MATH 237

MATH382 Advanced Calculus
Hours 3
Further study of calculus with emphasis on theory. Topics include limits and continuity of functions of several variables; partial derivatives; transformations and mappings; vector functions and fields; vector differential operators; the derivative of a function of several variables as a linear transformation; Jacobians; change of variables in multiple integrals; line and surface integrals; and Green's, Stokes', and Divergence Theorems.
Prerequisite(s): MATH 227 or MATH 247; and MATH 237.

MATH402 History Of Mathematics
Hours 3
Survey of the development of some of the central ideas of modern mathematics, with emphasis on the cultural context. Writing proficiency within this discipline is required for a passing grade in this course.

MATH403 Adv Math Connections & Devlpmn
Hours 3
Explore the interconnections between the algebraic, analytic, and geometric areas of mathematics with a focus on properties of various number systems, importance of functions, and the relationship of algebraic structures to solving analytic equations. This exploration will also include the development and sequential nature of each of these branches of mathematics and how it relates to the various levels within the algebra mathematics curriculum.
Prerequisite(s): MATH 237 and MATH 301

MATH404 Topics Math Secondary Teachers
Hours 1
This is a seminar style course focusing on various mathematical topics related to the high school curriculum. Topics will vary depending upon instructor.
Prerequisite(s): MATH 301

MATH405 Geometry For Teachers
Hours 3
This course will give an overview of geometry from a modern point of view. Axiomatic, analytic, and transformation approaches to geometry will be used. The relationship between Euclidean geometry, the geometry of complex numbers, and trigonometry will be emphasized.
Prerequisite(s): MATH 403

MATH409 Advanced Data Analysis
Hours 3
Concepts and techniques of posing questions and collecting, analyzing, and interpreting data. Topics include: univariate and bivariate statistics, probability, simulation, confidence intervals and hypothesis testing.
Prerequisite(s): MATH 125 and ST 260

MATH410 Numerical Linear Algebra
Hours 3
Further study of matrix theory, emphasizing computational aspects. Topics include direct solution of linear systems, analysis of errors in numerical methods for solving linear systems, least-squares problems, orthogonal and unitary transformations, eigenvalues and eigenvectors, and singular value decomposition.
Prerequisite(s): MATH 237 and (CS 100 or AEM 249 or ECE 285 or RRS 101)

MATH411 Numerical Analysis I
Hours 3
Credit will not be granted for both MATH 411 and MATH 300. A rigorous introduction to numerical methods. Topics include numerical methods for solving nonlinear equations; iterative methods for solving systems of equations; approximations and interpolations; numerical differentiation and integration; and numerical methods for solving initial value problems for ordinary differential equations.
Prerequisite(s): MATH 237 and MATH 238 and (CS 100 or AEM 249 or ECE 285 or RRS 101)

MATH412 Numerical Analysis II
Hours 3
This is the second course in the numerical analysis sequence for senior students in mathematics, science, or engineering. Topics include numerical methods for solving boundary value problems, ordinary differential equations, and partial differential equations, multistep methods for initial value problems, and approximation theory (least-squares problems, fast Fourier Transforms).
Prerequisite(s): MATH 343 and MATH 411

MATH420 Linear Optimization Theory
Hours 3
In-depth theoretical development and analysis of linear programming. Topics include formulation of linear programs, various simplex methods, duality, sensitivity analysis, transportation and networks and various geometric concepts.
Prerequisite(s): (MATH 227 OR MATH 247) AND MATH 237 AND (CS 100 OR AEM 249 OR ECE 285 OR RRS 101)
MATH421 Non-Linear Optimization Theory  
Hours 3  
This course is an introduction to nonlinear programming. Topics will include necessary and sufficient conditions for optimality, as well as basic theory and numerical algorithms for several traditional optimization methods, e.g., basic descent methods, conjugate direction methods, quasi-Newton methods, penalty and barrier methods, Lagrange multiplier methods. A brief introduction to selected modern topics may be added if time permits.  
Prerequisite(s): MATH 237 and (MATH 227 or MATH 247) and (CS 100 or AEM 249 or ECE 285 or RRS 101)  

MATH422 Mathematics For Finance I  
Hours 3  
Topics include the basic no-arbitrage principle, binomial model, time value of money, money market, risky assets such as stocks, portfolio management, forward and future contracts, and interest rates.  
Prerequisite(s): (MATH 227 or MATH 247) and MATH 355  

MATH432 Graph Theory & Applications  
Hours 3  
Survey of several of the main ideas of general theory with applications to network theory. Topics include oriented and nonoriented linear graphs, spanning trees, branching and connectivity, accessibility, planar graphs, networks and flows, matching, and applications.  
Prerequisite(s): MATH 237 or MATH 257  

MATH441 Boundary Value Problems  
Hours 3  
Methods of solving the classical second-order linear partial differential equations: Laplace's equation, the heat equation, and the wave equation, together with appropriate boundary or initial conditions. Usually offered in the fall semester. Prerequisite: Math 343, or consent of the department.  
Prerequisite(s): MATH 343  

MATH442 Integral Transf & Asympt  
Hours 3  
Complex variable methods, integral transforms, asymptotic expansions, WKB method, Airy's equation, matched asymptotics, and boundary layers.  
Prerequisite(s): C- or higher in MATH 441  

MATH451 Math Stats W/Applictn I  
Hours 3  
Introduction to mathematical statistics. Topics include bivariate and multivariate probability distributions, functions of random variables, sampling distributions and the central limit theorem, concepts and properties of point estimators, various methods of point estimation, interval estimation, tests of hypotheses and Neyman-Pearson lemma with some applications.  
Prerequisite(s): MATH 237 and MATH 355  

MATH452 Math Stats W/Applictn II  
Hours 3  
Further applications of the Neyman-Pearson Lemma, Likelihood Ratio tests, Chi-square test for goodness of fit, estimation and test of hypotheses for linear statistical models, analysis of variance, analysis of enumerative data, and some topics in nonparametric statistics.  
Prerequisite(s): MATH 451  

MATH457 Stochastic Processes I  
Hours 3  
Introduction to the basic concepts and applications of stochastic processes. Markov chains, continuous-time Markov processes, Poisson and renewal processes, and Brownian motion. Applications of stochastic processes including queueing theory and probabilistic analysis of computational algorithms.  
Prerequisite(s): MATH 355  

MATH460 Intro Differential Geom  
Hours 3  
Introduction to basic classical notions in differential geometry: curvature, torsion, geodesic curves, geodesic parallelism, differential manifold, tangent space, vector field, Lie derivative, Lie algebra, Lie group, exponential map, and representation of a Lie group. Usually offered in the spring semester.  
Prerequisite(s): MATH 486  

MATH465 Intro General Topology  
Hours 3  
Basic notions in topology that can be used in other disciplines in mathematics. Topics include topological spaces, open sets, basis for a topology, continuous functions, separation axioms, compactness, connectedness, product spaces, quotient spaces.  
Prerequisite(s): MATH 486  

MATH466 Intro Algebraic Topology  
Hours 3  
Homotopy, fundamental groups, covering spaces, covering maps, and basic homology theory, including the Eilenberg Steenrod axioms.  
Prerequisite(s): MATH 465  

MATH470 Prin Modern Algebra I  
Hours 3  
A first course in abstract algebra. Topics include groups, cyclic groups, non-abelian groups, Lagrange's theorem, subgroups, cosets, homomorphisms, isomorphisms, rings.  
Prerequisite(s): MATH 301  

MATH471 Prin Modern Algebra II  
Hours 3  
An introduction to ring theory. Topics include rings, polynomial rings, matrix rings, modules, fields and semi-simple rings. Usually offered in the fall semester.  
Prerequisite(s): MATH 470
MATH474 Cryptography
Hours 3
Introduction to rapidly growing area of cryptography, an application of algebra, especially number theory. Usually offered in the Fall semester.
Prerequisite(s): MATH 470

MATH485 Intro Complex Variables
Hours 3
Some basic notions in complex analysis. Topics include analytic functions, complex integration, infinite series, contour integration, and conformal mappings.
Prerequisite(s): MATH 227

MATH486 Introduction to Real Analysis I
Hours 3
Rigorous development of the calculus of real variables. Topics include the topology of the real line, sequences and series, limits, limit suprema and infima, continuity, and differentiation.
Prerequisite(s): MATH 301

MATH487 Introduction to Real Analysis II
Hours 3
A continuation of Math 486. Topics include Riemann integration, sequences and series of functions, uniform convergence, power series, Taylor series. Optional topics may include the Reimann-Stieltjes integration, Weierstrass Approximation Theorem and the Arzela-Ascoli Theorem, metric spaces, multi-variable calculus.
Prerequisite(s): MATH 486

MATH495 Seminar Directed Reading
Hours 1-3
Offered as needed.

MATH499 Undergraduate Research Experience
Hours 1-3
Independent or collaborative research experience in mathematics.

MDGR101 Elementary Modern Greek
FL
Hours 3
Contemporary modern Greek speaking, reading and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer files). Students have practice sessions three hours per week with a language trainer who is a native/near-native (or superior) speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.
Foreign Language

MDGR201 Intermed Modern Gr
Hours 3
Continuation of modern Greek on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102

MDGR202 Intermed Modern Greek
Hours 3
Continuation of MDGR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.
Prerequisite(s): MDGR 102

MLC155 Freshman Seminar
Hours 3
No description available

MS304 Marine Geology
Hours 4
Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

MS306 Marine Biology
Hours 4
Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

MS308 Marine Invertebrate Zoology
Hours 4
Comparative study of the major marine invertebrate phyla, protozoa through protochordates. The focus is on their morphology, physiology, ecology, and phylogenetic relationships.

MS419 Marine Ecology
Hours 4
Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems.

MS433 Coastal Zone Management
Hours 2
Review of ecological features, physical management policies for coastal communities, and a description of relevant federal and state programs.
MS448 Intro Oceanography
Hours 4
A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and their relation to biological systems.

MS452 Marine Vertebrate Zoology
Hours 4
Systematics, zoogeography, and ecology of marine vertebrates.

MS453 Marine Botany
Hours 4
Reproduction, taxonomy, systematics, distribution, and ecology of the major marine plant groups.

MS497 Special Topics
Hours 1-4
A marine science topic not covered in other courses. The credit hours and format are determined as appropriate to the topic. Offered according to demand and instructor availability.

MUA010 Music Convocation
Hours 0
Music Convocation.

MUA100 Class Voice Beginning
Hours 1
No description available

MUA121 Class Piano I
Hours 1
No description available

MUA122 Class Piano II
Hours 1
No description available

MUA123 Class Piano III
Hours 1
No description available

MUA124 Class Piano IV
Hours 1
No description available

MUA128 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA129 Guitar (Non-Majors)
Hours 0.5-1
No description available
MUA142 Clarinet (Non-Majors)
Hours 0.5-1
No description available

MUA143 Saxophone (Non-Majors)
Hours 0.5-1
No description available

MUA144 Trumpet (Non-Majors)
Hours 0.5-1
No description available

MUA145 French Horn (Non-Majors)
Hours 0.5-1
No description available

MUA146 Trombone (Non-Majors)
Hours 0.5-1
No description available

MUA147 Euphonium (Non-Majors)
Hours 0.5-1
No description available

MUA148 Tuba (Non-Majors)
Hours 0.5-1
No description available

MUA149 Percussion (Non-Majors)
Hours 0.5-1
No description available

MUA150 Symphony Orchestra
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA151 Alabama Brass Choir
Hours 0-1
Applied ensemble for brass musicians. Permission of instructor is required.

MUA152 Wind Ensemble
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA153 Marching Band
Hours 1
Applied Ensemble at the undergraduate level.

MUA154 Symphonic Band
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA155 Trombone Choir
Hours 0-1
Applied ensemble for trombone students at the freshmen level.

MUA156 Percussion Ensemble
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA157 Campus Band
Hours 0-1
Applied ensemble at the freshmen level.

MUA158 Contemp Music Ensemble
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA159 Jazz Ensembles
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA160 Opera Workshop
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA161 Opera Production
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA162 University Chorus
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA163 University Singers
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA164 Chamber Choir
Hours 1
The Alabama Chamber Choir is a mixed choral ensemble primarily conducted by advanced University of Alabama undergraduate choral music education students. Chamber Choir will afford all choristers the opportunity to peruse a broad spectrum of choral ensemble music, most of which will be suitable for programming in a traditional public school choral music setting. While experiencing breadth of repertoire will be a key philosophical component of Chamber Choir, high quality choral performance will drive the methodology. In that regard, student directors, through collaboration with the instructor, will prepare and conduct one selection in an authentic performance setting.

MUA166 Piano Ensemble I
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA167 Jazz Combo
Hours 0-1
Applied Ensemble at the undergraduate level.
MUA168 Women's Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA169 Chamber Music
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA170 Harp (Majors)
Hours 1-4
No description available

MUA171 Piano (Majors)
Hours 1-4
No description available

MUA172 Organ (Majors)
Hours 1-4
No description available

MUA174 Voice (Majors)
Hours 0.5-4
Voice study at the freshman and sophomore levels for music majors.

MUA175 Violin (Majors)
Hours 1-4
No description available

MUA176 Viola (Majors)
Hours 1-4
No description available

MUA177 Cello (Majors)
Hours 1-4
No description available

MUA178 String Bass (Majors)
Hours 1-4
No description available

MUA179 Flute (Majors)
Hours 1-4
No description available

MUA180 Oboe (Majors)
Hours 1-4
No description available

MUA181 Bassoon (Majors)
Hours 1-4
No description available

MUA182 Clarinet (Majors)
Hours 1-4
No description available

MUA183 Saxophone (Majors)
Hours 1-4
No description available

MUA184 Trumpet (Majors)
Hours 1-4
No description available

MUA185 French Horn (Majors)
Hours 1-4
No description available

MUA186 Trombone (Majors)
Hours 1-4
No description available

MUA187 Euphonium (Majors)
Hours 1-4
No description available

MUA188 Tuba (Majors)
Hours 1-4
No description available

MUA189 Percussion (Majors)
Hours 1-4
No description available

MUA190 Guitar (Majors)
Hours 1-4
No description available

MUA191 Practicum Applied Music
Hours 0-3
This course is an extension of Marching Band activities in the Fall semesters for the Spring semesters.

MUA192 Men's Chorus
Hours 1
Applied Ensemble at the undergraduate level.
MUA199 Sophomore Qualifying
Hours 0
No description available

MUA220 Class Guitar
Hours 1
Basics guitar techniques, especially accompanying self and ensembles with a variety of strumming and picking patterns relevant to music therapy clinical practice.
Prerequisite(s) with concurrency: MUS 015 or MUS 115

MUA228 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA231 Piano (Secondary)
Hours 0.5-1
Applied lessons for music students majoring in another discipline.

MUA232 Organ (Secondary)
Hours 0.5-1
Applied lessons for music students majoring in another discipline.

MUA233 Harpsichord (Secondary)
Hours 0.5-1
Applied lessons for music students majoring in another discipline.

MUA234 Voice (Secondary)
Hours 0.5-1
Applied lessons for music students majoring in another discipline.

MUA235 Violin (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA236 Viola (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA237 Cello (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA238 String Bass (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA239 Flute (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA240 Oboe (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA241 Bassoon (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA242 Clarinet (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA243 Saxophone (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA244 Trumpet (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA245 French Horn (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA246 Trombone (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA247 Euphonium (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA248 Tuba (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA249 Percussion (Secondary)
Hours 0.5-1
Applied Lessons for music majors of another discipline.

MUA250 Symphony Orchestra
Hours 0-1
Sophomore level ensemble.

MUA251 Alabama Brass Choir
Hours 0-1
Applied ensemble for brass musicians. Permission of instructor is required.

MUA252 Wind Ensemble
Hours 0-1
Sophomore level ensemble.

MUA253 Marching Band
Hours 1
Sophomore level ensemble.

MUA254 Symphonic Band
Hours 0-1
Sophomore level ensemble.

MUA255 Trombone Choir
Hours 0-1
Applied ensemble for trombone students at the sophomore level.

MUA256 Percussion Ensemble
Hours 0-1
Sophomore level ensemble.
MUA257 Campus Band
Hours 0-1
Applied Ensemble at the sophomore level.

MUA258 Contemporary Ensemble
Hours 0-1
Applied ensemble focusing on music of the 20 and 21st centuries.

MUA259 Jazz Ensemble
Hours 0-1
Sophomore level ensemble.

MUA260 Opera Workshop
Hours 0-1
Sophomore level ensemble.

MUA261 Opera Production
Hours 0-1
Sophomore level ensemble.

MUA262 University Chorus
Hours 0-1
Sophomore level ensemble.

MUA263 University Singers
Hours 1
Sophomore level ensemble.

MUA264 Chamber Choir
Hours 1
The Alabama Chamber Choir is a mixed choral ensemble primarily conducted by advanced University of Alabama undergraduate choral music education students. Chamber Choir will afford all choristers the opportunity to peruse a broad spectrum of choral ensemble music, most of which will be suitable for programming in a traditional public school choral music setting. While experiencing breadth of repertoire will be a key philosophical component of Chamber Choir, high quality choral performance will drive the methodology. In that regard, student directors, through collaboration with the instructor, will prepare and conduct one selection in an authentic performance setting.

MUA266 Piano Ensemble
Hours 0-1
Applied ensemble at the sophomore level for keyboard majors.

MUA267 Jazz Combo
Hours 0-1
Sophomore level ensemble.

MUA268 Women’s Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA269 Chamber Music
Hours 0-1
Sophomore level small ensemble.

MUA270 Harp (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA271 Piano (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA272 Organ (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA274 Voice (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA275 Violin (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA276 Viola (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA277 Cello (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA278 String Bass (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA279 Flute (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA280 Oboe (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA281 Bassoon (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA282 Clarinet (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA283 Saxophone (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA284 Trumpet (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA285 French Horn (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA286 Trombone (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.
MUA287 Euphonium (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA288 Tuba (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA289 Percussion (Majors)
Hours 1-4
Applied lessons for music majors at the sophomore level.

MUA290 Guitar (Majors)
Hours 1-4
Applied study at the sophomore level for music majors.

MUA292 Men's Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA299 Piano Proficiency
Hours 0
No description available.

MUA328 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA331 Piano II (Secondary)
Hours 0.5-1
Secondary applied piano study for music education students in the third and fourth semester of piano.
Prerequisite(s): MUA 231

MUA334 Voice II (Secondary)
Hours 0.5-1
Secondary applied voice for music majors in the third and fourth semesters of taking the course.
Prerequisite(s): MUA 234

MUA350 Symphony Orchestra
Hours 0-1
Applied ensemble at the junior level.

MUA351 Alabama Brass Choir
Hours 0-1
Applied ensemble for brass musicians. Permission of instructor is required.

MUA352 Wind Ensemble
Hours 0-1
Applied Ensemble at the junior level.

MUA353 Marching Band
Hours 1
Marching Band at the junior level.
Prerequisite(s): We are simply changing this from variable hours to 1. Thank you.

MUA354 Symphonic Band
Hours 0-1
Applied Ensemble at the junior level.

MUA355 Trombone Choir
Hours 0-1
Applied ensemble for trombone students at the junior level.

MUA356 Percussion Ensemble
Hours 0-1
Applied Ensemble at the junior level.

MUA357 Campus Band
Hours 0-1
Applied ensemble at the Junior level.

MUA358 Contemp Music Ensemble
Hours 0-1
Applied Ensemble at the junior level.

MUA359 Jazz Ensembles
Hours 0-1
Applied ensemble at the junior level.

MUA360 Opera Workshop
Hours 0-1
Applied ensemble at the junior level.

MUA361 Opera Production
Hours 0-1
Applied ensemble at the junior level.

MUA362 University Chorus
Hours 0-1
Applied Ensemble at the junior level.

MUA363 University Singers
Hours 0-1
Applied Ensemble at the junior level.

MUA364 Chamber Choir
Hours 1
The Alabama Chamber Choir is a mixed choral ensemble primarily conducted by advanced University of Alabama undergraduate choral music education students. Chamber Choir will afford all choristers the opportunity to peruse a broad spectrum of choral ensemble music, most of which will be suitable for programming in a traditional public school choral music setting. While experiencing breadth of repertoire will be a key philosophical component of Chamber Choir, high quality choral performance will drive the methodology. In that regard, student directors, through collaboration with the instructor, will prepare and conduct one selection in an authentic performance setting.

MUA366 Piano Ensemble
Hours 0-1
Applied ensemble at the junior level for keyboard majors.

MUA367 Jazz Combo
Hours 0-1
Applied ensemble at the junior level.
MUA368 Women's Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA369 Chamber Music
Hours 0-1
Applied ensemble in a small chamber group.

MUA370 Harp (Majors)
Hours 0.5-4
No description available

MUA371 Piano (Majors)
Hours 0.5-4
No description available

MUA372 Organ (Majors)
Hours 1-4
Applied organ study at the junior level.

MUA373 Voice (Majors)
Hours 0.5-4
No description available

MUA374 Flute (Majors)
Hours 0.5-4
No description available

MUA375 Clarinet (Majors)
Hours 0.5-4
No description available

MUA376 Viola (Majors)
Hours 0.5-4
No description available

MUA377 Violin (Majors)
Hours 0.5-4
No description available

MUA378 Cello (Majors)
Hours 0.5-4
No description available

MUA379 String Bass (Majors)
Hours 0.5-4
No description available

MUA380 Bassoon (Majors)
Hours 0.5-4
No description available

MUA381 Oboe (Majors)
Hours 0.5-4
No description available

MUA382 Clarinet (Majors)
Hours 0.5-4
No description available

MUA383 Saxophone (Majors)
Hours 0.5-4
No description available

MUA384 Trumpet (Majors)
Hours 0.5-4
No description available

MUA385 French Horn (Majors)
Hours 0.5-4
No description available

MUA386 Trombone (Majors)
Hours 0.5-4
No description available

MUA387 Euphonium (Majors)
Hours 0.5-4
No description available

MUA388 Tuba (Majors)
Hours 0.5-4
No description available

MUA389 Percussion (Majors)
Hours 0.5-4
No description available

MUA390 Guitar (Majors)
Hours 0.5-4
No description available

MUA391 Practicum Applied Music
Hours 0-3
This course serves as an extension of Marching Band Activities from the fall semester, into the Spring semester for upper class men.

MUA392 Men's Chorus
Hours 1
Applied Ensemble at the undergraduate level.
MUA399 Junior Recital
Hours 1
No description available

MUA428 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA450 Symphony Orchestra
Hours 0-1
Senior level ensemble.

MUA451 Alabama Brass Choir
Hours 0-1
Applied ensemble for brass musicians. Permission of instructor is required.

MUA452 Wind Ensemble
Hours 0-1
Senior level ensemble.

MUA453 Marching Band
Hours 1
Senior level ensemble.
Prerequisite(s): We are simply changing this from variable hours to 1. Thank you.

MUA454 Symphonic Band
Hours 0-1
Senior level ensemble.

MUA455 Trombone Choir
Hours 0-1
Applied ensemble for trombone students at the Senior level.

MUA456 Percussion Ensemble
Hours 0-1
Senior level ensemble.

MUA457 Campus Band
Hours 0-1
Applied ensemble at the Senior level.

MUA458 Contemporary Ensemble
Hours 0-1
Applied ensemble at the senior level focusing on music of the 20th and 21st centuries.

MUA459 Jazz Ensemble
Hours 0-1
Senior level ensemble.

MUA460 Opera Workshop
Hours 0-1
Senior level ensemble.

MUA461 Opera Production
Hours 0-1
Senior level ensemble.

MUA462 University Chorus
Hours 0-1
Senior level ensemble.

MUA463 University Singers
Hours 0-1
Senior level ensemble.

MUA464 Chamber Choir
Hours 1
The Alabama Chamber Choir is a mixed choral ensemble primarily conducted by advanced University of Alabama undergraduate choral music education students. Chamber Choir will afford all choristers the opportunity to peruse a broad spectrum of choral ensemble music, most of which will be suitable for programming in a traditional public school choral music setting. While experiencing breadth of repertoire will be a key philosophical component of Chamber Choir, high quality choral performance will drive the methodology. In that regard, student directors, through collaboration with the instructor, will prepare and conduct one selection in an authentic performance setting.

MUA466 Piano Ensemble
Hours 0-1
Applied ensemble at the senior level for keyboard majors.

MUA467 Jazz Combo
Hours 0-1
Senior level ensemble.

MUA468 Women's Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA469 Chamber Music
Hours 0-1
Senior level small ensemble.

MUA471 Piano (Majors)
Hours 0.5-4
Senior level applied piano study for music majors.
Prerequisite(s): MUA 371

MUA472 Organ (Majors)
Hours 1-4
Senior level applied organ study for music majors.
Prerequisite(s): MUA 372

MUA474 Voice (Majors)
Hours 0.5-4
Senior level applied voice study for music majors.
Prerequisite(s): MUA 374

MUA475 Violin (Majors)
Hours 0.5-4
Senior level applied violin study for music majors.
Prerequisite(s): MUA 375
MUA476 Viola (Majors)
Hours 0.5-4
Senior level applied viola study for music majors.
Prerequisite(s): MUA 376

MUA477 Cello (Majors)
Hours 0.5-4
Senior level applied cello study for music majors.
Prerequisite(s): MUA 377

MUA478 String Bass (Majors)
Hours 0.5-4
Senior level applied string bass study for music majors.
Prerequisite(s): MUA 378

MUA479 Flute (Majors)
Hours 0.5-4
Senior level applied fluted study for music majors.
Prerequisite(s): MUA 379

MUA480 Oboe (Majors)
Hours 0.5-4
Senior level applied oboe study for music majors.
Prerequisite(s): MUA 380

MUA481 Bassoon (Majors)
Hours 0.5-4
Senior level applied bassoon study for music majors.
Prerequisite(s): MUA 381

MUA482 Clarinet (Majors)
Hours 0.5-4
Senior level applied clarinet study for music majors.
Prerequisite(s): MUA 382

MUA483 Saxophone (Majors)
Hours 0.5-4
Senior level applied saxophone study for music majors.
Prerequisite(s): MUA 383

MUA484 Trumpet (Majors)
Hours 0.5-4
Senior level applied trumpet study for music majors.
Prerequisite(s): MUA 384

MUA485 French Horn (Majors)
Hours 0.5-4
Senior level applied french horn study for music majors.
Prerequisite(s): MUA 385

MUA486 Trombone (Majors)
Hours 0.5-4
Senior level applied trombone study for music majors.
Prerequisite(s): MUA 386

MUA487 Euphonium (Majors)
Hours 0.5-4
Senior level applied euphonium study for music majors.
Prerequisite(s): MUA 387

MUA488 Tuba (Majors)
Hours 0.5-4
Senior level applied tuba study for music majors.
Prerequisite(s): MUA 388

MUA489 Percussion (Majors)
Hours 0.5-4
Senior level applied percussion study for music majors.
Prerequisite(s): MUA 389

MUA490 Guitar (Majors)
Hours 1-4
Senior level of applied guitar study for music majors.
Prerequisite(s): MUA 390

MUA492 Men's Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA499 Senior Recital
Hours 1
No description available

MUS015 Music Fundamentals
Hours 3
Music Fundamentals (MUS 015) is a remedial course designed for incoming music majors and minors who require additional instruction in the rudiments of tonal music. Topics include clefs, pitches, rhythm, meter, scales, keys, intervals, and triads. Additionally, students will strengthen their musicianship skills applying the lessons to singing, listening, and playing the keyboard. Due to the elementary nature of the material, the lectures will include a fair amount of drill. Ultimately it offers a thorough preparation for the music theory sequence, which begins with Theory I (MUS 115). The class is open to non-majors if space permits.

MUS115 Theory I
Hours 4
Study of the foundations of musical materials through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the fall semester.

MUS117 Theory II
Hours 4
Study of the melodic and harmonic materials of the 18th and early 19th centuries through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the spring semester.
Prerequisite(s): MUS 115 with the grade of C- or better.
MUS121 Intro To Listening
FA
Hours 3
Credit earned in this course may not be applied to a major program in the School of Music. The course presupposes no musical training on the student’s part. Emphasis is on what to listen for in music.

Fine Arts
MUS150 Songwriting Techniques and Analyses
Hours 3
Musical components of songs will be analyzed and compared with songwriting literature; students will sing and perform songs and song concepts on musical instruments.
Prerequisite(s): 1) Ability to demonstrate basic performance skill on at least one musical instrument (preferably chordal such as keyboard, guitar, banjo, mandolin, ukulele, etc.). 2) Ability to locate and identify letter names of pitches on chosen instrument.

MUS155 Discover Your Inspiration
Hours 3
Imagine if you could turn on creativity like a car: rev the engine, cruise in the fast lane and park it until you need it again. Creativity really means perspiration x inspiration. You are not born with it, you have to cultivate it. This course will give you the tools to see all the possibilities around you as you begin your studies at the University of Alabama.

MUS161 Oboe Reedmaking
Hours 1
Independent laboratory instruction in oboe reedmaking. Up to four semesters of MUS 161 may be counted toward the degree.

MUS180 Intro Music Therapy
Hours 2
The purpose of this course is to study music as a human behavior and gain an overview of the use of music with various age groups and populations.
Prerequisite(s) with concurrency: MUS 015 or MUS 115

MUS181 Music Therapy Practicum
Hours 1
Supervised music therapy clinical work with older adults and observation of music therapy sessions in the community.
Prerequisite(s): MUS 180 and MUA 220 with a grade of C- or better.
Prerequisite(s) with concurrency: MUS 280.

MUS182 Obsrv Orient Mu Therapy
Hours 2
The purpose of this course is to apply principles of human behavior to clinical settings, with an emphasis on measuring client outcomes.
Prerequisite(s): MUS 180 with a grade of C- or better.

MUS215 Theory III
Hours 4
Study of musical materials and forms from the early to mid-19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the fall semester.
Prerequisite(s): MUS 117 with grade of C- or better.

MUS217 Theory IV
Hours 4
Study of musical materials and forms from the mid- to late 19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the spring semester.
Prerequisite(s): MUS 215 with grade of C- or better.

MUS219 Composition I
Hours 2
Basic techniques of musical composition.

MUS220 Composition II
Hours 2
A continuation of Composition I. Basic techniques of musical composition.

MUS228 Jazz Piano Jazz Theory I
Hours 1
Introduction to theoretic principles of jazz and application on the piano, including definition and applications of chords and scales, progressions, chord substitution principles. Offered in the fall semesters of even-numbered years.

MUS229 Jazz Piano And Theory II
Hours 1
Continuation of MUS 228. Focus on modes, synthetic scales, altered extensions, and other extended techniques of the jazz idiom. Offered in the spring semesters of odd-numbered years.

MUS230 Improvisation I
Hours 1
Theoretical and applied study of the tonal and rhythmic elements used in developing improvisational skills in jazz, rock, and pop media. Offered in the fall semesters of odd-numbered years.

MUS231 Improvisation II
Hours 1
Continuation of MUS 230. Designed to develop advanced improvisational skills in the jazz idiom. Offered in the spring semesters of even-numbered years.

MUS240 Piano Pedagogy
Hours 2
Study of teaching principles, methods, and materials; includes microteaching and observation. Offered in alternate spring semesters.

MUS241 Organ Pedagogy
Hours 2
This course investigates materials, methods and techniques for teaching the beginning organ student.

MUS244 String Pedagogy
Hours 2
Materials and methods for teaching string players in the early grades (both studio and class instruction). Offered according to demand.
MUS250 Music In World Cultures  
FA  
Hours 3  
Study of music in non-Western traditions (Africa, India, Japan, Indonesia, etc.).  

Fine Arts  

MUS251 Music History I  
Hours 3  
History of music from the ancient Greeks through the end of the 17th century, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the fall semester.  
Prerequisite(s): MUS 250 (passing with a D- or better) MUS 117 (passing with a C- or better)  

MUS252 Music History II  
Hours 3  
History of music in the 18th and early 19th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the spring semester.  
Prerequisite(s): MUS 251  

MUS254 Diction For Singers I  
Hours 3  
Introduction to the International Phonetic Alphabet; study and practice of Italian and English diction. Offered in alternate years.  

MUS255 Diction For Singers II  
Hours 3  
Study and practice of German and French diction. Offered in alternate years.  

MUS280 Music Therapy Repertoire and Skill Proficiency  
Hours 2  
The purpose of this course is to learn the wealth of folk, popular, and recreational music of the main segments of American culture, as well as develop polished singing and accompanying skills needed for competent performance as a music therapist. Students will also be introduced to other music therapy interventions.  
Prerequisite(s): MUS 182 with a grade of C- or better and MUA 220 with a grade of C- or better.  
Prerequisite(s) with concurrency: MUS 282  

MUS281 Music Therapy Techniques  
Hours 2  
Learn to develop specific therapeutic experiences (singing, movement, rhythm, relaxation, lyric analysis, lyric rewrite, etc.) for each age group (infancy through older adults) as well as for specific populations. By the end of the semester students will have acquired the skills necessary for MUS 382.  
Prerequisite(s): MUS 280 with a grade of C- or better.  
Prerequisite(s) with concurrency: MUS 282  

MUS282 Music Therapy Practicum  
Hours 1  
The purpose of this course is to offer the music therapy student experience in facilitating music therapy sessions at a local agency which serves a specific population and to observe other populations in music therapy sessions. Across the two semesters students will develop group leadership skills in singing and accompanying with guitar, build a repertoire of appropriate songs for this population, and practice appropriate interaction skills with those served, their families, the staff, classmates, and the professor.  
Prerequisite(s): MUA 220 with a grade of C- or better and MUS 182 with a grade of C- or better.  

MUS283 Observation and Orientation to Music Therapy  
Hours 2  
The purpose of this course is to apply principles of human behavior to clinical settings, with an emphasis on measuring client outcomes.  
Prerequisite(s): MUS 281 with C- or better.  
Prerequisite(s) with concurrency: MUS 282  

MUS300 Intro Music Theory Research  
Hours 2  
An introduction to scholarly research for students who plan academic careers as musical theorists.  
Prerequisite(s): Permission of the Instructor of record.  

MUS301 Concepts, Techniques, and Philosophy of Improvisation Through Music  
Hours 2  
A course in the practicality/functionality of music improvisation, including philosophical aspects of improvisation in all the arts and the relationship to other non-arts related disciplines.  

MUS303 16th Cent Counterpoint  
Hours 3  
Practical study, through analysis and composition, of vocal polyphony as developed in the 16th century. Offered in the spring semester of odd numbered years.  
Prerequisite(s): MUS 117  

MUS304 18th Cent Counterpoint  
Hours 3  
The 18th-century style of counterpoint as developed by Bach. Offered in the fall semester.  
Prerequisite(s): MUS 215  

MUS307 Form And Analysis  
W  
Hours 3  
Complete survey of the forms of composition, beginning with phrase and period and covering large forms such as rondo, sonata, concerto, and fugue. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.  
Prerequisite(s): MUS 217  
Writing
MUS310 Arranging
Hours 3
Basic jazz arranging techniques for small ensembles. Offered in the fall semester.

MUS312 Intermediate Arranging
Hours 3
Continuation of MUS 310 (Arranging). Emphasis on writing for the big band and mixed media instrumentation, focusing on extended arranging techniques. Offered in the spring semester.

MUS315 Mus Management Activity
Hours 2
Practical consideration of all aspects of concert production and administration for musicians and music business people.

MUS316 Careers In Music
Hours 2
Exploration of careers in concert and commercial music for musicians and others. Offered spring semester.

MUS319 Composition III
Hours 3
Projects in musical composition.

MUS320 Composition IV
Hours 3
Projects in musical composition.

MUS323 Music History III
W
Hours 3
History of music in the 19th and 20th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the fall semester.

Prerequisite(s): MUS 252

Writing

MUS324 Practical Skills and Concepts for the 21st Century Musician
Hours 2
The course will provide information designed to challenge (student's) concepts of change, leadership and creativity. Concepts which are 21st century necessities. Practical steps of implementation in these 3 areas will be offered through mini-internships in the SOM. In particular through activities involving the SOM Concert Hall, Recital Hall, Music Services, The TSO, the modern applied studio, Arts Council and the Alys Stephens Center. Students will learn how to work with others; focus on the underbelly of performance; value the necessary stream of activity needed for a successful production. Such "productions" may include developing an idea, running a meeting, producing an event or a concert, write/speak about music and the arts.

MUS325 Orchestration I
Hours 3
Basic instrumentation and writing for ensembles and orchestra. Offered in the fall semester of even-numbered years.

Prerequisite(s): MUS 215

MUS326 Arts Venues Management
Hours 2
Through course readings, lectures, guest presentations, and hands-on experience students will learn the roles and operations of arts and music venues. This class is a combination of practical work and classroom lectures. The class will be held at several local venues, the primary one being the Tuscaloosa Amphitheater. Other venues include Tuscaloosa River Market, Mildred Westervelt Warner Transportation Museum, Bama Theatre and UA venues.

Prerequisite(s): Junior status or permission of instructor

MUS327 Studies Special Literature
Hours 3
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS331 Jazz Symposium
Hours 3
No description available

MUS332 Experimental Music
W
Hours 3
This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We will begin defining what experimental music is - what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hop, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a "hands-on" engagement with the subject. Writing proficiency is required for a passing grade in this course.

Writing

MUS333 Service Playing
Hours 3
No description available

MUS334 Service Playing
Hours 3
No description available

MUS335 Accompanying Class
Hours 2
Survey of accompanying techniques and of the standard repertoire in the vocal, string, and wind areas. Experience is gained through assigned projects and/or assigned studio accompanying. Offered in the spring semester of even-numbered years.
MUS340 Intro Recording Technique
Hours 3
Exploration of the basics of the art of sound recording. Emphasis on the mixing console, microphone placement, effects, recording basic tracks, and mixdown.

MUS344 String Pedagogy
Hours 2
No description available

MUS351 Fund Of Conducting
Hours 2
Introduction to the basic techniques of conducting with emphasis on the understanding and control of music materials. Offered in the fall semester.

MUS365 Legal Issues in the Arts
Hours 3
This course will explore a broad range of legal topics pertinent to the arts, including: copyright, trademark, contracts, management of employees, union issues, advertising and 501 (c)(3) non-profit status.
Prerequisite(s): MUS 115 and MUS 117

MUS380 Intro Psychology Music
Hours 3
Basic study of acoustics, the ear and hearing, and the psychosociophysiological processes involved in musical behavior.
Prerequisite(s): MUS 281 and MUA 199

MUS382 Music Therapy Practicum
Hours 1
Supervised music therapy experience in local facilities.

MUS401 Film Scoring I
Hours 3
A study of the art of scoring music for films. Emphasis will be placed on the short jingle and the technical aspects of film scoring. Offered in the fall semester.

MUS402 Film Scoring II
Hours 3
Continuation of MUS 401. Emphasis will be placed on writing the extended film score by analysis of psychological impact, orchestration techniques, etc. Offered in the spring semester.

MUS403 Advanced Counterpoint
Hours 3
The writing of fugue, variation, ground-bass, and canon. Offered in the SPRING semesters of EVEN-numbered years.
Prerequisite(s): MUS 304 or permission of the instructor.

MUS405 Studio Tech Arrang Orchs
Hours 3
Continued development of arranging and orchestrating techniques in both jazz and commercial settings, with an emphasis on the studio orchestra, MIDI instrumentation, and vocal groups.

MUS406 Keyboard Techniques
Hours 2
Applied survey of figured bass, choral open-score reading, transposition, and harmonization. Offered in the fall semesters of odd-numbered years.

MUS407 Marketing the Arts
Hours 2
Marketing the Arts will provide students with a general overview of communications including public relations, advertising, marketing and new media. Through readings, discussions, quizzes, an examination and a final group presentation students will develop an understanding of marketing practices involved in promoting an arts organization. Emphasis will be on not-for-profit organizations, community theatres and symphony orchestras.

MUS412 Digtl Syn Of Elec Mus
Hours 3
Instruction in the design and utilization of sound-generating computer programs. Offered in the fall semester of even-numbered years.

MUS414 Tech Electronic Music II
Hours 3
Utilization of digital synthesizers and advanced studio techniques. Offered in the spring semesters of even-numbered years.

MUS418 Schenkerian Analysis
Hours 3
Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers. Offered in the fall semesters of odd-numbered years.
Prerequisite(s): MUS 307 with a grade of C- or better

MUS419 Composition V
Hours 3
Projects in composition.
Prerequisite(s): MUS 320 with a grade of C- or better

MUS420 Composition VI
Hours 3
Projects in composition.
Prerequisite(s): MUS 419 with a grade of C- or better

MUS426 Analysis 20th Cent Music
Hours 3
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.
Prerequisite(s): MUS 307 with a grade of C- or better

MUS427 Studies In Special Lit
Hours 3
Thorough study of topics not included in the curriculum. Offered according to demand.

MUS431 Organ Design
Hours 2
This course is a study of the basic components of pipe organ design and construction, with a consideration of some of the aesthetic, tonal, and physical aspects of organ installations in a church, home, or concert hall.
MUS444 Vocal Pedagogy
Hours 2
Introduction to the concepts, methods, and materials essential to effective teaching of the singing voice. Offered in alternate years.

MUS447 Teaching Choral Music Publ Sch
Hours 3
The scope, organization, and administration of choral programs in public schools. Includes analysis of teaching techniques and materials appropriate to specific levels of development. Offered in the fall semester.

MUS448 Tchng Instrumental Music Pub S
Hours 3
Problems encountered in the development of instrumental programs in public schools; analysis of beginning method books for heterogeneous and homogeneous groups; and development of a course of study to guide the new teacher. Offered in the fall semester.

MUS461 History/Literature Jazz
Hours 3
History of the development of jazz to the present, from its African roots to its American florescence. Particular attention is paid to early styles and forms.

MUS471 Lit Of The Piano
Hours 2
Survey of the important solo repertoire from Bach through Schubert. Examination of the development of keyboard technique from the time of the harpsichord through the time of the early piano. Offered in the fall semesters of even-numbered years.

MUS472 Lit Of The Piano
Hours 2
Survey of the important solo repertoire from the early Romantic era through the present. Examination of the development of piano technique from Chopin and Liszt through Cage and Crumb. Offered in the spring semesters of odd-numbered years.

MUS473 String Literature
Hours 2
Study of the standard repertoire for bowed instruments, from the Baroque period to the present.

MUS474 Song Literature
Hours 3
Survey of the performance criteria and historical significance of the solo song literature of the United States, the British Isles, Germany, Austria, France, and Italy. Performance and class participation are required. Offered in alternate years.

MUS475 Song Literature
Hours 3
Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS477 Organ Literature
Hours 2
Survey of Organ Literature and Advanced Survey of Organ Literature is a course available to upper class organ majors and graduate students, as well as others with the permission of the instructor. MUS477/577 is a survey of organ literature from the 14th century into the 18th century.

MUS478 Organ Literature
Hours 2
Continuation of MUS 477. Offered in spring of odd numbered years.

MUS480 Music in Therapy I
W
Hours 3
Study of mental health diagnoses as well as various therapeutic techniques and systems in music therapy using a hypothetical mode of inquiry. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): MUS 380 with a grade of C- or better.
Prerequisite(s) with concurrency: MUS 382 Writing

MUS481 Music Therapy II
Hours 3
The purpose of this course is to study the needs of the aging population as well as medical diagnoses of all age groups, including evidence-based practice in music therapy.
Prerequisite(s): MUS 480 with a grade of C- or better.
Prerequisite(s) with concurrency: MUS 382

MUS482 Music Therapy III
Hours 3
Music therapy for children, adolescents, and adults with disabilities in self-contained and inclusive settings.
Prerequisite(s): MUS 481 with a grade of C- or better.
Prerequisite(s) with concurrency: MUS 382

MUS487 Sem Prof Pract Mu Therp
Hours 2
Study of clinical administration, supervision, ethics, and professional behavior.

MUS488 Comprehensive Exam in Music Therapy
Hours 0
The purpose of this exam is to prepare students for success in the music therapy workforce via the CBMT Self-Assessment Examination and a comprehensive written exam covering material from all music therapy coursework.
Prerequisite(s): Completion of all courses with C- or higher for MUS 180, MUS 182, MUS 280, MUS 281, MUS 282, MUS 380, MUS 480, and MUS 481.
Prerequisite(s) with concurrency: MUS 382 and MUS 482 with a C- or higher.
MUS489 Music Therapy Internship  
**Hours 6**

Music therapy internship through a university affiliation or national roster site. Student must accumulate 1200 clinical training hours, in which 900 hours or more take place during the internship.

Prerequisite(s): Completion of all music therapy courses with a grade of C- or better higher for MUS 180, MUS 182, MUS 280, MUS 281, MUS 282, MUS 380, MUS 382, MUS 480, MUS 481, and MUS 482. Passing MUS 488.

MUS490 Raising Money Dev Arts  
**Hours 2**

Theories and techniques of securing funds for nonprofit organizations, including donor cultivation and grant preparation. Offered in the fall semester.

MUS492 Choral Conducting  
**Hours 2**

Continuation of MUS 351 with emphasis on the problem of the choral ensemble. A study of rehearsal technique, vocal problems, diction, score analysis, style, and choral literature. Offered in the spring semester.

MUS494 Band Conducting  
**Hours 2**

Continuation of MUS 351 with emphasis on the problem of the wind ensemble. A study of baton technique, score reading, rehearsal procedure, and band literature. Offered in the spring semester.

MUS496 Music Administration Internship  
**Hours 3-6**

A minimum of one semester of internship with the following recommended host organizations: (1) a performing arts organization, (2) a community, state, or regional arts council, (3) a performing arts venue, (4) a musical festival or (5) a reputable recording studio. The internship must have the approval of and will be under the supervision of the Music Administration Coordinator.

MUS497 Senior Project  
**Hours 1**

Required of all BA students in music (music and music administration): A substantial paper on a topic approved by the faculty advisor and completed in consultation with the advisor and examined by a faculty committee. In administration: a supervised practicum arranged through the advisor.

MUS498 Indep Research In Mus  
**Hours 1-6**

*No description available*

NEW100 Intro Interdisc Integrativ Stdy  
**FCMP**  
**Hours 1-2**

Designed to help New College students become more informed about the University and about New College so that they may maximize their opportunities in their undergraduate programs through New College. Enrollment is limited to New College students.

NEW120 Inclusive Leadership Through Sustained Dialogue  
**Hours 1**

In an increasingly globalized world, leaders need the skills to resolve conflict across difference. Sustained Dialogue is a five-stage dialogue-to-action model that requires participants to take the time to focus first on transforming change-blocking relationships, and then on solving problems. This course will explore the theory behind this innovative model and ultimately consider how Sustained Dialogue applies to visions for positive change at the University of Alabama. Participants will receive an introduction to the Sustained Dialogue model and then meet in dialogue groups weekly to work through the 5 stages to address specific issues on campus.

Prerequisite(s): NONE

NEW122 Academic Potential  
**Hours 2**

This course will help students develop practical and efficient strategies for learning in order to succeed in college. Students will learn skills to improve note taking, listening, textbook reading, and time management; as well as methods to reduce test anxiety and improve concentration. Discussion of campus resources and learning styles will also be included in this course.

Prerequisite(s): none

NEW140 Sexuality and Society  
**SB**  
**Hours 3**

American society today features more cultural acceptance and legal protection than ever before for sexual and gender diversity, but we don’t always know how to live out these changing norms and how to talk about controversial sexual material in the public sphere. This course engages debates around sexuality as central to human behavior and to social structures, in both America and the world. It provides an overview of the “new sexual revolution” and the growing interdisciplinary field of sexuality studies. The course adopts a consent-based model of sexual wellbeing. Its approach is sex-positive—aiming toward sexual justice, responsibility, and pleasure—within a classroom that functions as an open and affirming space for discussion and learning. Students gain the knowledge, critical thinking skills, and cultural competence to evaluate for themselves issues of sexuality in society.

Social and Behavioral Sciences

NEW201 Recreation For Life  
**Hours 1**

In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW211 Perspectives in the Humanities  
**HU**  
**Hours 4**

Introductory course in the humanities (art, literature, music, etc.) with a focus on problem solving, risk taking and communication. Human behavior and writing skills are stressed.
NEW212 Creativity  
FA, HU  
Hours 4  
This interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion.  
Fine Arts, Humanities  

NEW213 Honors Creativity  
FA, HU, UH  
Hours 4  
This honors interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion.  
Fine Arts, Humanities, University Honors  

NEW215 Perspec. on Env. Literature  
HU  
Hours 4  
Considers perspectives on environmental studies within the humanities by examining key texts of environmental literature.  
Humanities  

NEW223 McNair Scholar'S Seminar  
Hours 1  
To provide knowledge and skills in a variety of areas to strengthen personal, academic, and research competencies vital to success in graduate programs.  

NEW226 Organic Farming  
Hours 4  
An intensive, hands-on course in organic farming taught at a local working farm. Covers the basics of organic farming while also addressing questions about organic versus industrial agriculture models in relation to current environmental problems and solutions.  

NEW230 Environmental Studies  
Hours 4  
This course engages students in the study of environmental problems and solutions. It includes an examination of fundamental assumptions about the ethical human-nature relation and of how to value nature. The approach is interdisciplinary, drawing on the humanities, social sciences, and natural sciences.  

NEW237 Cooperation & Conflict  
SB  
Hours 4  
This seminar explores cooperation and conflict in human societies; all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.  
Social and Behavioral Sciences  

NEW238 Honors: Coop. & Conflict  
SB, UH  
Hours 4  
This honors seminar explores cooperation and conflict in human societies -- all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems. This course has a service learning component that involves 12 service learning hours outside of class time.  
Social and Behavioral Sciences, University Honors  

NEW243 Interdisciplinary Sciences  
N  
Hours 4  
This seminar demonstrates how the nature of the laboratory experience plays an essential role in the understanding and advancement of science. Several multidisciplinary experiments are performed in geology, chemistry, physics, and biology.  
Natural Science  

NEW270 Leader Soc Justice Activism  
Hours 3  
No description available  

NEW273 Social Issues & Ethics  
SB  
Hours 4  
This seminar is designed to develop an awareness of the methodologies and concerns of the social sciences as they relate to ethical inquiry. The primary focus is on the nature of inquiry and models for the analysis of ethical issues confronting the modern world. Students will explore the complexity of moral dilemmas and effective societal responses to competing moral obligations in the areas of health care, socio-economic disparities, affirmative action, immigration, and racism.  
Social and Behavioral Sciences  

NEW300 Outdoor Leadership  
Hours 3  
The goal of this course is to prepare students to successfully and safely plan and lead small group excursions into wilderness, backcountry, and front-country outdoor areas using various outdoor recreational activities as a medium. There will also be an emphasis placed on teaching technique and presentation skills as students will be required to present information to the class.  
Prerequisite(s): none
**NEW310 Independent Study**  
*Hours 1-12*

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

**NEW311 Independent Study**  
*Hours 1-12*

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

**NEW312 Independent Study**  
*Hours 1-12*

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

**NEW313 Independent Study**  
*Hours 1-12*

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

**NEW314 Independent Study**  
*Hours 1-12*

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

**NEW315 Independent Study**  
*Hours 1-12*

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.
NEW316 Independent Study  
Hours 1-12

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW317 Independent Study  
Hours 1-12

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW318 Independent Study  
Hours 1-12

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW319 Independent Study  
Hours 1-12

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW321 Independent Study  
Hours 1-12

A student desiring to pursue an academic interest for which no University class is available may plan his or her own "course" through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives, the methodology and resources to be employed in the attempt to meet the goals and objectives, and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW332 Experimental Music  
W  
Hours 3

This course will introduce you to a variety of theories and practices of musical experimentalism in a global context. We’ll begin by defining what experimental music is – what is the impulse that drives some artists to push outside the realms of their traditions, or even outside what is normally called music? Rather than limiting our view to experimentalism in Western art music, as has largely been the case in surveys of this subject, we will also listen to and study experiments in jazz, rock, hip hop, reggae and other global musics to put the experimentalist aesthetic in a broad historical and cultural context. In addition to critical reading, discussion and listening we will perform experimental music compositions to encourage a “hands-on” engagement with the subject. Writing proficiency is required for a passing grade in this course.

Prerequisite(s): N/A

Writing

NEW333 CIEL Internship  
Hours 9-15

This course serves as the course students register for as part of the exchange program with the Consortium for Innovative Environment in Learning. Students pay tuition to UA but actually study as a full-time student at one of the 12 CIEL sister institutions.
NEW334 Everyday Forestry in Alabama  
Hours 3

This course will prepare students to understand natural resource practices to better manage one’s woodlands in a rural or urban situation. This course is for any student interested in basic forestry management techniques and should serve future home and land owners, individuals interested in conservation issues, and as an introduction to a broader field for students with professional interest in forestry or environmental studies. This course will discuss basic forest management concepts in order to improve the woodland’s habitat according to the objectives of a landowner. Students will learn how to identify all major tree species in Alabama as well as all major forest insects and diseases. Other topics that will be discussed will include compass and pacing, forest site evaluation, timber estimation, topographic map interpretation, and invasive woodland species. This course does not presuppose any previous knowledge and no prerequisite is required. Much of this course will include “hands-on” outdoor field trips.

Prerequisite(s): None

NEW335 Everyday Wildlife In Alabama  
Hours 3

The goal for this course is to prepare students to understand creative uses of managing wildlife species according to management objectives. This course is intended for any student interested in basic wildlife management techniques and should serve future home and land owners, individuals interested in conservation issues, and as an introduction to a broader field for students with professional interest in environmental studies or natural resources. This course does not presuppose any previous knowledge and no prerequisite is required.

Prerequisite(s): none

NEW336 Everyday Wildlife In Alabama  
Hours 3

The purpose of this course is to prepare and encourage students to incorporate the principles of sustainability and the ethics of permaculture into their home or apartment landscape. This course is intended for any student interested in learning the basics of sustainable gardening, water management, pest management, and the use of native plants to provide a backyard habitat for birds and wildlife. No prerequisite is required.

Prerequisite(s): none

NEW337 Designing and Maintaining a Sustainable Home Landscape  
Hours 3

This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students gain experience in thematic approaches to a publication, concept formation for an audience, socially responsible publishing, and writing and editing persuasive essays. Students are strongly encouraged to take both.

NEW338 New College Review I  
Hours 2

This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students edit, design, and distribute the New College Review. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW339 New College Review II  
Hours 2

This workshop provides students with practical experience in writing and publishing a special interest publication, the New College Review. Students edit, design, and distribute the New College Review. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW342 Social Action and Performance  
Hours 3

Social Action and Performance is open to all students. The course uses an interdisciplinary approach to the world of theatrical performance and explores the work of Augusto Boal and Theatre of the Oppressed model as a mechanism for social change. The course will train students to educate their peers through performance about interpersonal violence and contemporary issues of multiculturalism on campus. Students will use improvisation, participatory activities, readings, and assessments to engage in social action. Students are encouraged to participate in self-exploration with respect to the issues mentioned above as part of their trainings with these techniques. Students who participate in this course will become official members of the theatre troupe called Unscripted.

Prerequisite(s): (EN 101 and EN 102) or EN 103

NEW360 Sound Studies  
W  
Hours 3

How do we experience, define, use and abuse sound? What elements of a sound determine their meaning to us, and why? What can we learn about the world by focusing on its sounds? An emerging interdisciplinary field of research, sound studies asks these questions and more, in an attempt to uncover the important role of sound in our lives. Why do shopping malls sound like they do? What do cellphone ringtones tell you about a person? How has the changing soundscape of the ocean affected natural processes and wildlife? Why do clocktower bells ring? How is music used to both soothe, entertain, and torture or control people? This interdisciplinary course explores sound in a variety of current and historical global contexts — of which music is only one small part — examining the many ways sound signifies and defines our cultures and histories.

Prerequisite(s): N/A

NEW361 Handmade Sounds: A Hands-on History of Electronic Music  
Writing  
Hours 4

Did you know you can make electronic music with credit cards? Old toys? 30-cent circuit boards? This course will teach you to build your own electronic orchestra from scratch while also exploring the history of electronic music, with a special focus on tinkering experimenters that created electronic music using self-made instruments. Through a combination of theory and practice, you will learn about electronic music’s pioneers, recreating some of their early experiments to experience this history with your own hands and ears. We will explore the construction of a variety of simple electronic instruments, learn to play them, and perform a concert at the end of the term. No previous musical or technical experience is required, but there will be a significant amount of hands-on work with tools and wires in addition to the usual course load of reading, writing and discussion, so an interest in working with technology is a must. Each day of the course we will discuss the work of historical figures in electronic music followed by a laboratory period of hands-on exploration and creation. You are required to write 10 500-word essays articulating your response to the course materials. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): N/A
NEW365 Introduction to Environmental Policy
Hours 3
This introductory environmental policy course reviews major developments in environmental regulation in the United States, considered in a global context. Readings examine the evolution of U.S. environmental policy, the form and function of social institutions used to govern human-environment interactions, including markets, state and civil society, and conventions, norms, and morals. U.S. and U.N. legal structures, agencies, and NGOs are addressed, with attention to comparative regulatory frameworks. The "new institutional approach," "resource regimes," and various incremental and transformative institutional reforms are discussed. The impact of economic and cultural factors—including class, race, gender, and location—on resource use and other policy decisions affecting the physical and built environments will be explored. Evolving institutional approaches to energy use, such as sustainability, "wise use," adaptive management, and resilience are examined. This course is cross-listed with PSC 365.
Prerequisite(s): No prerequisites.

NEW366 Waterways
Hours 3
This experiential seminar explores the natural history and ecology of our waterways, and examines the human dimensions of control and management, including policies and regulations to support environmental and human uses. Through readings, discussions, films, and field trips, we will explore the natural beauty and diversity of our aquatic ecosystems, and the ways in which we interact with our environment, both positively and negatively. In addition, we will examine current threats and impacts that development, pollution, and management have on our waterways, and consider policies designed to regulate or mitigate these impacts. This course includes field trips, some of which may occur outside of the regularly scheduled class period.

NEW400 Sporting Conservation
Hours 3
This course is designed to provide students with an historical and contemporary understanding of the role that sportsmen and women play in the conservation and management of fish, game, and non-game species. Special attention will be given to sporting organizations and their role in the conservation and management of our nation's natural resources. This course will also introduce students to important concepts within the wildlife and game management fields such as predator control, population dynamics, predator-prey relationships, and introductory genetics.

NEW401 Birds and Birding
Hours 4
This course will introduce students to the popular hobby of birding or bird watching. As such, basic field identification methods will be reviewed and practiced. We will also discuss larger conservation issues as they relate to birds. As we will learn, the phrase "canary in a coal mine" has very practical implication for the modern terrestrial world. We will also discuss the cultural connection between people and birds, and what that has meant for both the destruction and conservation of birds during the past couple of centuries.
NEW413 Mythologies
Hours 4
This course in comparative mythology introduces students to mythological systems from a variety of cultures, including preclassical, Greek, American Indian, Oriental, African, and contemporary American. Recurring motifs and current theories on the mythologizing process are analyzed.

NEW415 Gender, Sexuality & Pop Culture
W
Hours 3
What constitutes "femininity" and "masculinity" in 21st century America? How have gender roles changed? Is gender performance? What are the cultural expectations around sexuality, and how is it influenced and policed in society? Includes professor's current case research in this field. Writing proficiency within this discipline is required for a passing grade in this course.

NEW416 American Environmental Thought
W
Hours 3
Popular conceptions of nature hold extraordinary power in shaping our responses and policies toward both the geophysical world and built environments. This interdisciplinary course examines key concepts and controversies in American thought about nature since before colonization. Using accounts from various regions, the course explores evolving conceptions of nature and justice, competing claims about race and class, and changing institutional responses and remedies to environmental degradation in the context of global change. The course is highly interactive, inviting critical thinking about the human place in the physical world. We read and discuss ecological views as presented in colonial writings, slave narratives, Transcendentalist thought, Gilded Age preservationist and conservationist debates, and the work of Progressive Era occupational health specialists and ecologists. We give specific attention to twentieth century social movements for environmental public health, examining contemporary approaches, including ecofeminism, environmental justice, and sustainability. We identify different disciplinary approaches, among them environmental history, ecological anthropology, sociology, and geography, and explore conceptual links between disciplines. A brief introduction to research methods, utilizing qualitative techniques, case studies, and specialized data sources, will be included. Journal articles, law review essays, regulatory documents, court decisions, and films supplement classic texts as we examine race, ethnicity, gender, poverty, and other factors shaping environmental health. Because this course carries a "W" for the Core Curriculum, writing proficiency is required for a passing grade.

NEW418 Mash-Up: Intermedia Intersections in the Arts
W
Hours 4
This interdisciplinary course discusses intermedia intersections in 20th and 21st century art and music through lectures, discussions and interactions with visiting artists. We will examine the cultural and historical roots of intermedia art, the outpouring of experimentation in the 20th century avant-garde, and the postmodern pastiche of the digital realm in the 21st century. Spanning work created for galleries, to art and music from urban streets and rural villages, we will explore examples from the visual arts, dance, music, film and architecture to learn how and why artists work with and combine different media. In addition to engaging with a variety of artistic works, we will discuss the cultural, philosophical, theoretical, and compositional issues that meet at intermedia junctions. Writing proficiency is required for a passing grade in this course.

NEW420 Cultural Studies
W
Hours 3
This seminar provides an introduction to the key concepts, methodologies, and practice of Cultural Studies, focusing primarily on issues of cultural consumption, representation, audience, identity, and everyday life.

Writing

NEW434 Documenting Justice I
Hours 3
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course.

NEW435 Documenting Justice II
Hours 3
Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. A two semester course. Prerequisite(s): NEW 434

NEW436 Public Leadership
W
Hours 4
This seminar helps students develop the understanding and skills necessary for the practice of public leadership. The course emphasizes framing public issues for discussion and leading the decision making necessary to set the direction of public policy. Writing proficiency within this discipline is required for a passing grade in this course.
NEW438 Overview of American Law

W

Hours 4

This course will teach students key components of the American legal system using popular literature, current events, and academic readings. Through written assignments, presentations, and discussion, students will gain knowledge about various bodies of law, conceptions of law / justice, and the implications of law and American culture on one another. This course will benefit students who plan to attend law school, those considering law school, and those who want to expand their legal literacy. Students will learn concepts relevant to: criminal law, torts, contracts, wills / trusts, constitutional law, and procedure / evidence. Further, students will learn how to write about legal issues using the vocabulary of the domain of knowledge. Writing proficiency within the discipline is required for a passing grade in this course.

Prerequisite(s): None.

Writing

NEW439 Urban Spaces: The Nature of Cities

W

Hours 3

This interdisciplinary social science course provides an introduction to the cultural and physical ecology of cities, focusing primarily on urbanization in the United States from the late 19th century to the present. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

NEW441 Climate Change Seminar

W

Hours 4

This seminar introduces students to the science of global climate change and examines public perception and coverage of the topic in various news media outlets, films, and books. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

NEW442 Environmental Ethics and Problems

W

Hours 3

This upper level writing intensive seminar explores the ethical dimensions of ecological relationships, with particular attention to conceptions of nature, justice, and environmental health. We will consider classical ethical concepts, such as utilitarianism and natural law theories, and contemporary environmental approaches, including biocentrism, deep ecology, environmental justice, eco-feminism, and sustainability. This course will be highly interactive, inviting critical thinking about changing ideas about the human place in the natural world. Examining various case studies, we explore the ethical debates surrounding such topics as populations, genetically altered crops, global climate change, biodiversity, and emerging crises in global environmental public health. Readings also address corporate responsibility, science ethics, and public policy. We will consider the ethics of sustainability from the campus to the transnational level. This course meets a college core writing requirement; a demonstration of writing proficiency is required for a passing grade in this course. The course has New College designations for Environment, Sustainability, and Conservation (ESC) and Social Problems and Social Change (SPSC).

Writing

NEW443 Science & Technology

Hours 4

The course teaches scientific concepts (time and laws of thermodynamics, change, measurement, reality, etc.) as they relate to the various sciences (anthropology, mathematics, etc.). The relationship of science and technology to the environment of the Earth's surface is stressed.

NEW445 Technology and Humans

W

Hours 3

This interdisciplinary seminar provides an introduction to the key debates and questions raised by the increasingly close relationship between humans and advanced technologies. The course will draw on critical works, as well as narrative fiction and popular culture texts, to examine how a dependence on technology might change the very definition of "human" and what subsequent ethical, psychological, and philosophical dilemmas result from this close relationship.

Writing

NEW446 Gender and Environment

W

Hours 3

This course examines histories of concepts of nature and gender, philosophies of eco-feminism, and accounts of gender-based efforts for environmental reform. Writing proficiency within this discipline is required for a passing grade in this course.

Writing
NEW450 Conservation Field Studies in Belize
Hours 6
Study Belize’s diverse rainforests, coral reefs, and visit Mayan ruins for a glimpse into a past civilization. Belize is unique in that it still contains relatively undisturbed rainforests and the longest barrier reef in the Western Hemisphere. However, while Belize has emerged as an international leader regarding conservation efforts, threats from climate change, poverty, and development still exist. The purpose of this course is 1) examine current conservation efforts to safeguard this biodiversity; 2) familiarize students with the most important aspects of tropical lowland terrestrial and marine ecosystems; 3) understand the role of local culture in sustainable conservation; 4) gain an understanding of the fundamental importance of biodiversity; and 5) expose students to new and unique cultures and environments. The course is designed for students who are interested in conservation issues, biogeography, marine sciences, ornithology and birding, archaeology, and outdoor adventures! The trip will be divided between a rainforest and a marine field station located next to the barrier reef. So we will have easy access the most diverse environments on the planet.

NEW472 Social Change
W
Hours 4
This seminar is concerned with the process and analysis of social change. In this seminar, students study the Holocaust, attempting to understand it as an intense and unparalleled human experience. The causes, events, outcomes, and implications are researched through books, films, interviews, tapes, and discussions. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

NEW473 Globalization & Folk Crft Prod
Hours 4
This course examines the relationship between the global and the local, using world folk craft (for example, pottery) as a point of focus. The functions of creativity in industrialized and nonindustrialized societies are explored through a combination of reading, research, discussion, and studio experiences. Writing proficiency within this discipline is required for a passing grade in this course.

NEW474 Survival
Hours 4
In this seminar, students study the nature of human and societal survival under extreme conditions. Topics range from issues of a global nature to violent crime, prejudice, and disease. Causes, effects, and possible solutions are all considered. Writing proficiency within this discipline is required for a passing grade in this course.

NEW484 Church, State and American Education
Hours 3
A critical look at the role of religion in public education, the separation of church and state in American education, and educational policies emanating from debates about the separation of church and state.

NEW490 Special Topics
Hours 3-4
The subject matter varies.

NEW495 Capstone Sem & Senior Project
Hours 2
14 hours of New College coursework and successful junior year review. New College students only, concluding integrative project.

NOR101 Elem Norwegian Language
Hours 3
Contemporary Norwegian: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director.

NSE401 National Student Exchange A
DX
Hours 12
No description available
Dining Dollars Exempt

NSE402 National Student Exchange B
DX
Hours 12
No description available
Dining Dollars Exempt

PH101 General Physics I
N
Hours 4
Lectures and laboratory. An algebra-based introductory course including classical mechanics and thermodynamics. Topics include: kinematics, Newtonian dynamics, conservation of energy and momentum, rotational motion, oscillations and waves, kinetic theory of gases, and thermodynamics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125. Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145 Natural Science

PH102 General Physics II
N
Hours 4
Lectures and laboratory. An algebra-based introductory course including electricity and magnetism, optics, and modern physics. Topics include: electrostatic force and fields, electrical energy, capacitance, resistance, dc circuits, magnetism, induction, ac circuits, electromagnetic waves, geometric optics, wave optics, relativity, quantum mechanics, atomic physics, and nuclear physics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126. Prerequisite(s): PH 101 or PH 105 or PH 125
Natural Science
PH105 General Physics W/Calc I

Hours 4

Lectures and laboratory. This is an introductory calculus-based course covering classical mechanics, conservation laws, oscillations, waves, and thermal phenomena. Two course format options may be offered: a studio format with integrated lectures and laboratories and a non-studio format in which lectures and laboratories meet separately. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.

Prerequisite(s): MATH 125 or MATH 145

Natural Science

PH106 General Physics W/Calc II

Hours 4

Lecture and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.

Prerequisite(s): MATH 126 or MATH 146; and PH 101 or PH 105 or PH 125

Natural Science

PH115 Descriptive Physics for Non-Science Majors

Hours 4

A non-technical course designed for non-science majors intended to give an introduction to physics with no math prerequisites. Demonstrations and lectures on the chief topics of classical and modern physics and how they relate to everyday life. Credit earned in this course may not be counted toward fulfillment of the requirements for the major or minor in physics. Credit will not be granted for both PH 101 and PH 115. Three lecture hours and one laboratory period.

Natural Science

PH125 Honors Gen Ph W/Calculus

Hours 4

This is an Honors version of PH 105, primarily intended for Physics majors and Honors students. This is an introductory calculus-based course covering classical mechanics, conservation laws, oscillations, waves, and thermal phenomena. This course is usually offered in the studio format (integrated lectures and labs). Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.

Prerequisite(s): MATH 125 or MATH 145

Natural Science, University Honors

PH126 Honors Gen Ph W/Calculus II

Hours 4

Lecture, discussion, and laboratory. This is an Honors version of PH 106, primarily intended for Physics majors and Honors students. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.

Prerequisite(s): MATH 126 or MATH 146; and PH 105 or PH 125

Natural Science, University Honors

PH253 Intro Modern Physics

Hours 3

Study of topics in modern physics, including special relativity, quantum physics, atomic structure, solid state physics, and selected additional topics (e.g. lasers, molecular physics, the atomic nucleus). NOTE: If the student plans to apply PH 253 toward satisfaction of the N requirement of the University Core Curriculum, PH 255 must also be taken.

Prerequisite(s): MATH 126 or MATH 146; and PH 102 or PH 106 or PH 126

Natural Science

PH255 Modern Physics Lab

Hours 1

Experimental work in the topics that form the subject matter of PH 253, including special relativity, quantum physics, atomic and nuclear structure, and solid state physics. Successful students will develop their ability to collect and analyze experimental data, interpret the results, and present their findings in a clear, concise, and convincing way. NOTE: If the student plans to apply PH 255 toward satisfaction of the N requirement of the University Core Curriculum, PH 253 must also be taken.

Prerequisite(s): PH 253

Natural Science

PH301 Mechanics I

Hours 3

This course is a more rigorous and sophisticated treatment of the classical mechanics topics covered in the introductory courses PH 101/105/125. The treatment is based on differential equations. The list of topics includes vectors, Newtonian mechanics in 1, 2, and 3 dimensions, oscillations, Lagrangian mechanics, gravity and central forces, rotational motion of rigid bodies, non-inertial coordinate systems, and coupled oscillators and normal modes.

Prerequisite(s): MATH 238 and PH 102 or PH 106 or PH 126

Prerequisite(s) with concurrency: MATH 238
PH302 Intermediate Mechanics  
Hours 3  
This course is a more rigorous and sophisticated treatment of the classical mechanics topics covered in the introductory courses PH 101/105/125. The course is based on differential equations, and is particularly intended for students who plan to pursue graduate studies in physics or astronomy. The list of topics includes Newton's laws, projectile motion, energy, momentum and angular momentum conservation, oscillations, calculus of variations, Lagrangian formalism, two-body central forces, rotation of rigid bodies, coupled oscillators and normal modes. Some aspects of nonlinear motion and chaos, Hamiltonian mechanics, collisions, and special relativity may also be covered.  
Prerequisite(s): PH 102 or PH 106 or PH 126  
Prerequisite(s) with concurrency: MATH 238

PH331 Elect & Magnetism I  
Hours 3  
Vector analysis, electrostatics and magnetostatics, potential, and electric and magnetic fields in matter.  
Prerequisite(s): PH 102 or PH 106 or PH 126; and MATH 238  
Prerequisite(s) with concurrency: MATH 238

PH332 Elect & Magnetism II  
Hours 3  
Electrodynamics, conservation laws, electromagnetic waves, radiation, and relativity.  
Prerequisite(s): PH 331

PH354 Intermediate Modern Physics  
Hours 3  
Continuation of PH253 (Introduction to Modern Physics) which includes applications of quantum mechanics, solid state physics, nuclear physics, particle physics, high-energy astrophysics, and a survey of current theoretical speculations and experimental observations.  
Prerequisite(s): PH 253

PH405 Physics For Science Teachers  
Hours 3  
Selected topics in contemporary physics for high-school and post-secondary science teachers.  
Writing

PH411 Biophysics  
Hours 3  
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, bionanotechnology. Emphasis on systems that are best understood in physical and molecular detail.

PH412 Physics Pedagogy  
Hours 1  
This is a course in teaching methodologies for introductory physics, based on recent results from physics education research.  
Prerequisite(s): None  
Prerequisite(s) with concurrency: None

PH413 High School Physics Labs I  
Hours 1  
This course is designed to provide training in Level 1 Alabama Science in Motion physics laboratory activities for pre-service high school physics teachers. In addition to hands-on training, students will observe a selected number of ASIM lab activities being performed in a local high school classroom. Whenever possible, training will occur jointly with ongoing in-service workshops provided by the ASIM physics specialist.  
Prerequisite(s): PH 102 or PH 106 or PH 126

PH414 High School Physics Labs II  
Hours 1  
This course is designed to provide training in Level 2 Alabama Science in Motion physics laboratory activities for pre-service high school physics teachers. In addition to hands-on training, students will observe a selected number of ASIM lab activities being performed in a local high school classroom. Whenever possible, training will occur jointly with ongoing in-service workshops provided by the ASIM physics specialist.  
Prerequisite(s): PH 102 or PH 106 or PH 126

PH415 High School Physics Labs III  
Hours 1  
This course is designed to provide classroom experience for students who have received training in Levels 1 and 2 Alabama Science in Motion physics laboratory activities for pre-service high school physics teachers. Students will assist with approximately six different ASIM lab activities being performed in a local high school classroom. They will meet with the classroom teacher before and after each class to discuss the goals and objectives and to assess the effectiveness of the activity, and they will write a report on their observations.  
Prerequisite(s): PH 102 or PH 106 or PH 126

PH434 Digital Electronics  
Hours 3  
Two laboratory periods. Theory and practical application of digital integrated circuits, including gates, flip-flops, and counters. Computer data acquisition, D/A and A/D conversion, communication and instrument control fundamentals using LabView.

PH441 Quantum Structure of Matter I  
Hours 3  
Wave functions, time-independent Schroedinger equation, mathematical tools of quantum mechanics, quantum mechanics in three dimensions, identical particles. No graduate credit will be awarded for PH 441.  
Prerequisite(s): PH 253 and PH 331 and PH 301 or PH 302

PH442 Quantum Structure of Matter II  
Hours 3  
Time-independent perturbation theory, variational principle, WKB approximation, time-dependent perturbation theory, adiabatic approximation, scattering theory. Writing proficiency within this discipline is required for a passing grade in this course. No graduate credit will be awarded for PH 442.  
Prerequisite(s): PH 441  
Writing
PH461 Nuclear and Particle Physics
Hours 3
An introduction to nuclear and elementary particle physics, this course will cover: nuclear properties, forces, structure and decays; experimental methods in nuclear and particle physics; introduction to the Standard Model of elementary particle physics; the quark model of hadrons; Quantum Electrodynamics; Quantum Chromodynamics and the strong interaction; the weak interaction; electroweak unification, gauge symmetries and the Higgs mechanism.
Prerequisite(s): PH 441

PH471 Thermal Physics
Hours 3
Introduction to thermal phenomena on a macroscopic and a statistical basis, and principles and laws governing them. Introduction to energy and entropy formalism and discussion of thermodynamic potentials (Helmholtz and Gibbs). Applications to systems in equilibrium.
Prerequisite(s): MATH 227 or MATH 247 and PH 253

PH481 Solid State Physics
Hours 3
This course covers the structure of crystals, the mechanical, thermal, electrical, and magnetic properties of solids, the free-electron model, and the band approximation.
Prerequisite(s): PH 441 or permission of instructor

PH482 Topics Physics & Astronomy
Hours 1-3
Topics in physics and astronomy not covered by existing courses. Repeat credit is allowed for different topics.

PH488 Nanoscale Science and Applications
Hours 3
Nanoscale science and technology are based on the study and manipulation of phenomena at length scales approaching one billionth of a meter. Advances in this rapidly changing field are being made across multiple disciplines including Physics, Chemistry, Biology, Materials Science, Engineering, and Medicine with emerging practical applications in areas as varied as energy conversion and storage, manufacturing, telecommunications, information processing, medical diagnostics, and drug delivery to mention just a few. The goal of this course is to provide upper level undergraduate and graduate students with a foundational perspective on some of the key scientific principles relevant to the behavior of matter at the nanoscale as well as a review of processes, materials, and systems that derive their properties from nanoscale phenomena.

PH491 Advanced Laboratory
W
Hours 3
Advanced experiments in modern physics. Research, analysis, and reporting of scientific results. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PH 255
Writing

PH493 Intro To Research
Hours 1-3
Credit is by arrangement, but no graduate credit will be awarded for PH 493. Student performs research under supervision of a faculty member.

PH495 Independent Study I
Hours 1-3
No description available

PH496 Independent Study II
Hours 1-3
No description available

PHL100 Intro To Philosophy
HU
Hours 3
Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge. Offered in the fall and spring semesters.
Humanities

PHL104 Critical Thinking
HU
Hours 3
Introduction to the concepts and methods used to identify, construct, and assess arguments as they appear in editorials, articles, ordinary speech, etc.
Humanities

PHL106 Honors Introduction to Deductive Logic
HU, UH
Hours 3
In this course, you will explore and analyze influential arguments from the history of philosophy, including arguments concerning questions of values, ethics, and aesthetics. You will learn to apply tools and methods of formal deductive logic to those arguments, and to appreciate the breadth of topics for which such analysis is appropriate. You will use analytical tools such as the construction of proofs and countermodels to evaluate philosophical arguments as well as arguments concerning other topics. The arguments analyzed in this course include a number of influential arguments from the history of philosophy. Among them are Aquinas’ arguments for the existence of God, Parmenidean arguments for the impossibility of change, Berkeley’s Master Argument for idealism, Descartes’ cogito argument, arguments for skepticism, Mill’s "proof" of Utilitarianism, Kant’s argument for the Categorical Imperative, the Experience Machine objection to Utilitarianism, Singer’s argument for animal rights, the Stoic argument that death is not to be feared, and more.
Prerequisite(s): C- or better in MATH 100 OR MATH 110 OR MATH 112 OR MATH 113 OR MATH 115 OR MATH 121 OR MATH 125 OR UA Math Placement Test Score of 190 OR ACT Math Subscore of 28 OR SAT Math Subscore of 690 or Admissions to UA Honors
Humanities, University Honors
PHL191 Honors Introduction to Philosophy  
**HU, UH**

Hours 3

Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge. Restricted to UA Honors students.

Humanities, University Honors

PHL195 Introduction to Deductive Logic  
**HU**

Hours 3

In this course, you will explore and analyze influential arguments from the history of philosophy, including arguments concerning questions of values, ethics, and aesthetics. You will learn to apply tools and methods of formal deductive logic to those arguments, and to appreciate the breadth of topics for which such analysis is appropriate. You will use analytical tools such as the construction of proofs and countermodels to evaluate philosophical arguments as well as arguments concerning other topics. The arguments analyzed in this course include a number of influential arguments from the history of philosophy. Among them are Aquinas' arguments for the existence of God, Parmenidean arguments for the impossibility of change, Berkeley's Master Argument for idealism, Descartes' cogito argument, arguments for skepticism, Mill's "proof" of Utilitarianism, Kant's argument for the Categorical Imperative, the Experience Machine objection to Utilitarianism, Singer's argument for animal rights, the Stoic argument that death is not to be feared, and more.

Prerequisite(s): C- or better in MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125

PHL209 Research in Philosophy  
**Hours 1-3**

This course is an opportunity to do 200-level self-directed study and writing on an approved topic early in a student’s study of philosophy.

PHL211 Ancient Philosophy  
**HU**

Hours 3

This course will focus on the major themes of ancient Greek philosophy, from the earliest pre-Socratic philosophers, through Plato and Aristotle, to the later Epicureans, Stoics, and Skeptics. We will proceed chronologically and pay special attention to the systematic connections between metaphysics, epistemology, and ethics in each school of thought, as well as the development of later views in light of criticisms of earlier ones. The aim of this course is to provide students a reasonably comprehensive background in the main areas of Western analytic philosophy through an examination of some of the earliest systematic philosophies.

Humanities

PHL212 Early Modern Philosophy  
**HU**

Hours 3

This course will look at the main figures and intellectual developments of the early Modern period of philosophy. We will proceed chronologically, starting with Descartes’s seminal Meditations on First Philosophy and tracing two very different branches of influence from there to what are often called the Rationalist and Empiricist schools. Other figures of note will be Locke, Leibniz, Berkeley, Hume, and Kant.

Humanities

PHL215 American Philosophy  
**HU**

Hours 3

Relatively few courses are offered on American philosophy, in spite of the fact that the United States has become a worldwide center of philosophy, and is the home of Pragmatism, one of the three major philosophical approaches. This course will be an introduction to American philosophy from the theologian Jonathan Edwards and the political philosophers who had a hand in the founding of America, to classic pragmatists such as Peirce, James and Dewey, and leading 20th century thinkers, such as Quine, Kuhn, Rorty, Putnam and others.

Humanities

PHL221 Honors Introduction to Ethics  
**HU, UH**

Hours 3

This course is designed to give the students a broad introduction to the field of philosophical ethics. The primary aim is to acquaint students with the basic subject matter of ethics as it is studied within philosophy, a few central authorities and positions, and a feel for how philosophers engage with contemporary ethical issues in light of some of the historical influences on the discipline. We will read a variety of texts ranging from historical works on ethics generally to contemporary works focusing on specific moral issues. The hope is that students will develop an understanding and appreciation of how different ethical theories apply to particular cases, and how they might begin to engage in genuine ethical debates. Restricted to UA Honors students.

Humanities, University Honors

PHL223 Medical Ethics  
**HU**

Hours 3

This class provides an introduction to the philosophical study of applied ethics by way of a discussion of topics related to the practice of medical and biological science. Topics of discussion will include abortion, stem cell research, cloning, the allocation of scarce or limited resources, animal experimentation, and patient autonomy, among others. Along the way, other important topics in moral philosophy will be discussed.

Humanities
This course serves as an introduction to central debates in political philosophy. The major questions we explore are the following: How can the coercive authority the government exercises over its citizens be justified? What does justice require in our society today? What role do democracy, freedom, rights and equality play in our understanding of a just society? Through the study of both historical and contemporary texts, we investigate these topics. We also consider how these issues bear upon debates in the contemporary American context concerning the following: restrictions on free speech, participation in the democratic process, the war on drugs, homelessness, education and socioeconomic inequality.

Humanities

PHL231 Social Justice in Practice

Hours 1

What does justice require in our society today? With a focus on contemporary social and political issues, we seek to answer this question by looking at different dimensions of justice. We consider how the ideals of democracy, freedom, rights, and equality ought to inform our understanding of a just society. In particular, we focus on how these ideals translate into practice with respect to philosophical debates about immigration, poverty, political participation, and socioeconomic inequality. In addition to learning about these issues in the classroom, students will develop a deeper understanding of social justice through engagement with a community project. The service-learning component of the course involves regular participation in a community program working with disadvantaged and/or marginalized populations.

Prerequisite(s): None. Corequisite: PHL 230.

PHL234 Social Philosophy

Hours 3

How should we live together? In this course, we seek to answer this question through moral assessment of the institutional rules and cultural norms that shape our interaction with others and the world around us. We specifically consider issues in the following two categories: I. Markets & consumption. In the modern-day economy, we must grapple with important issues concerning the responsibilities of individual consumers and corporations, what goods may be legitimately bought and sold in a free market, and how economic transactions between nations should be structured to count as fair. II. Violence. One of the features thought to make the state distinctive is that it has a monopoly over the legitimate use of force. Given this power, we will examine the legitimate use of violence by the government. Is the death penalty justified? Is the use of torture permissible under any circumstances? How should it deal with terrorists as opposed to traditional combatants in war?

Humanities

PHL240 Philosophy and the Law

Hours 3

This class is an introduction to and survey of philosophical issues in the law, focusing on issues in general jurisprudence such as the nature of law and its relation to morality, the grounds of the legitimacy of legal authority, and the sources of legal normativity and validity. There may also be some discussion of issues in specific jurisprudence such as the value of written constitutions and their interpretations, the nature of extent of legal responsibility, and questions about the authority of non-elected judges. At least one prior course in philosophy is strongly recommended.

Humanities

PHL241 Philosophical Issues in Criminal Law

Hours 3

This is a course exploring major issues in the philosophy of criminal law. Topics might include the appropriate justifications for punishment, what kinds of acts are appropriately criminalized, philosophical issues relating to elements of a crime (such as whether an act is required), the problem of attempts and moral luck, affirmative defenses such as justifications and excuses, the use of vague terminology in the elements of a crime and the need for judges or juries to make moral judgments, and relations to the wider morality of law.

Humanities

PHL242 Philosophical Issues in Civil Law

Hours 3

This is a course exploring major issues in the philosophy of civil law. Civil law is the area of law in which private parties sue each other, generally in order to get compensation for a perceived wrong done by the other party. It includes areas such as tort law (accidents, malpractice, etc.) and contract law. Possible topics to be covered are whether tort law is based on rectification for injustices or economic considerations, the relation of contract law to philosophical issues in promising, and philosophical issues relating to the use of a public process to redress private disputes.

Humanities

PHL243 Philosophical Issues in Constitutional Law

Hours 3

This is a course exploring major issues in the philosophy of constitutional law. Generally constitutional law is concerned with what powers and responsibilities governments have as well as what the limits on those powers might be, including civil rights. In doing so, constitutions guide official determinations of what counts as legally valid within the relevant jurisdiction. Topics might include debates over the proper way to interpret constitutions, whether constitutions must (or should) be written documents, whether they are necessary (or desirable) in a democracy, the relation between principles of legality set forth in constitutions and moral principles (especially the relation between legal rights and moral rights), and the advisability of official bodies tasked with interpreting and applying the constitution such as the Supreme Court.

Humanities
PHL256 Philosophy of Sport  
*HU*  
Hours 3  
This course will examine some of the major themes in the burgeoning field of philosophy of sport, paying special attention to a number of important ethical issues. We will look at the nature of sports (and games more generally), sportsmanship and fairness, the role of officials, gender equity, racism, and issues surrounding the use of performance-enhancing drugs. This course is reading intensive. Prior exposure to philosophy is welcome but not required.

Humanities  

PHL260 Mind and Nature  
*HU*  
Hours 3  
This course is framed around two questions. First, what is the place of the mind in nature? Second, what is the place of nature in the mind? The first question is a form of mind/problem, which concerns the relationship between mental phenomena such as consciousness and the physical world. The second question is a part of the epistemology, the philosophy of knowledge, and concerns the nature and scope of human knowledge.

Humanities  

PHL264 Introduction to Metaphysics  
*HU*  
Hours 3  
Topics may include proofs for the existence of God, the nature of reality, free will and determinism, personal identity, and the nature of time.

Humanities  

PHL281 Introduction to Philosophy of Religion  
*HU*  
Hours 3  
This course is an introduction of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality.

Humanities  

PHL286 Introduction to Philosophy of Science  
Hours 3  
Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?.

PHL290 Special Topics in Philosophy  
Hours 1-3  
This course offers introductory-level study of a special philosophical topic that is not a part of the Department's regular course offerings.

PHL291 Aesthetics  
*FA*  
Hours 3  
In this course, we will be introduced to some of the most fundamental concerns about art: What is distinctive, if anything, about the experience of artworks? Why do we identify anything as a work of art? How do we, or should we interpret an artwork? On what grounds can we criticize an artwork?.

Fine Arts  

PHL292 Introduction to Ethics  
*HU*  
Hours 3  
Introduction to competing views of how one ought to live, designed to promote the development of a reasoned view of one's own. May include such topics as ethical relativism, the nature of justice and of rights, and the relationship of law and morality.

Humanities  

PHL305 Symbolic Logic  
Hours 3  
This course aims to improve students' understanding of the basic concepts of formal logic, particularly the truth-functional and predicate calculi. Students learn convenient methods of formal reasoning, and use them to study some of the basic notions of metalogic. B- or better in PHL 195 or C or better in PHL 106, or Instructor's permission is required.

Prerequisite(s): B- or better in PHL 195 or C or better in PHL 106

PHL309 Teaching Practicum  
Hours 3  
This course number is for students who are receiving course credit for working as TAs for philosophy classes. Ordinarily, students working as TAs for classes are responsible for taking roll, proctoring and grading tests, and, most importantly, providing tutorial assistance to the students. Specific duties might vary depending on the needs of the class.

PHL312 Contemporary Philosophy  
*W*  
Hours 3  
Philosophy in the 20th century. Topics may include linguistic analysis, logical atomism, logical positivism, ordinary language philosophy, existentialism, and phenomenology. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): Successful completion of at least 2 PHL courses

Writing
PHL332 Theories of Justice
W
Hours 3
Advanced study of prominent theories of prominent historical and contemporary theories of justice (for example, those of Plato, Aristotle, Rawls, or Nozick) and the implication of those theories for political problems such as the distribution of health care, affirmative action, or public goods. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above; or instructor’s permission.
Writing

PHL333 Global Justice
W
Hours 3
In an increasingly globalized world, questions of global justice have risen to prominence in contemporary political philosophy. In this course we examine the following issues. Do the demands of justice transcend state borders? Do we have reason to think that different demands of justice apply at the global level than at the state level? How do increased levels of global interdependence bear upon what we owe to foreigners versus to our fellow citizens? Does the global order harm the world’s poor? Are there any universal human rights? If so, how are they justified and who is responsible for upholding them? Drawing on competing contemporary philosophical accounts of justice, we consider different ways of addressing concrete practical issues such as global poverty and inequality, humanitarian intervention, and immigration. You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above. If you do not meet this requirement, you must obtain special permission from the instructor. This 3-credit hour course carries a W designation. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite(s): two PHL classes or instructor’s permission.
Prerequisite(s): Two PHL classes or instructor’s permission.
Writing

PHL341 Law and Morality
W
Hours 3
This class explores the moral status of legality and the legal status of morality, the status of unjust laws, and the role of moral judgments of lawmakers. Is a good law one that does good? What is the relation between morality and legal validity? Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite(s): One prior PHL class with a B or better.

PHL343 Philosophical Issues in International Law
W
Hours 3
This course explores philosophical issues that arise with respect to the international law. Some of these are conceptual. For instance, what qualifies as ‘international law’ and in virtue of what characteristics? International laws, norms, and rule-mediated practices are different in character from the laws that govern our lives within the state. Who makes international laws, and who enforces them? A host of normative issues arise with respect to international law too. What if anything gives international legal bodies like the United Nations, the International Criminal Court, and the Appellate Body of the World Trade Organization rightful authority over those who are taken to be bound by their rules? In cases of conflict, do the laws of states trump international laws or vice-versa? We will consider some of the ethical issues surrounding international laws, treaties, and conventions concerning some of the following issues: human rights; war, humanitarian intervention and the use of violence more broadly; trade and economic globalization; the environment and the use of natural resources; immigration and refugees; and intellectual property. You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above. If you do not meet this requirement, you must obtain special permission from the instructor. This 3-credit hour course carries a W designation. Writing proficiency within this discipline is required for a passing grade in this course. Tentative course requirements: two papers, an exam, and homework.
Prerequisite(s): You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above; or instructor’s permission.
Writing

PHL349 Legal Reasoning
Hours 3
This class gives you the reasoning skills you need to enter law school and those you need while in law school and beyond. While learning analytical and logical reasoning skills as well as legal research and argument-writing skills, the course covers topics such as problems with rule following and vagueness, the nature and authority of precedent, statutory interpretation, judicial decisions and burdens of proof.
Prerequisite(s): Successful completion of one PHL class with at least a B

PHL360 Philosophy of Mind
W
Hours 3
What is the relationship between the mental and the physical? That is the central question in the philosophy of mind, and we will approach it from different angles. We will focus largely on consciousness and its place in nature. Most readings will be from the contemporary literature but some will be historical. This course carries a W designation, and so writing proficiency within the discipline of philosophy is required for a passing grade in this course. Two philosophy classes or instructor’s permission. PHL 260 Mind and Nature is recommended but not required.
Prerequisite(s): Must have taken at least two philosophy courses prior to this course.
Writing
PHL362 Mind, Language, and Reality

W

Hours 3

This course concerns the nature of meaning and its connection to metaphysics and epistemology. We will study classic works by Gottlob Frege, Bertrand Russell, Saul Kripke, and others. We will also study more recent work in philosophical semantics and its application to arguments in the philosophy of mind. Writing proficiency within this discipline is required for a passing grade in this course. Must have taken Introduction to Deductive Logic (PHL 195 or PHL 106) and one other philosophy course, or have instructor’s permission.

Prerequisite(s): PHL 195 OR PHL 106 and one other PHL course

Writing

PHL364 Philosophy of Cognitive Science

W

Hours 3

This course addresses some core questions in the philosophy of cognitive science. Topics covered are likely to include: the computational theory of mind, the role of mental representations in cognition, the extended mind hypothesis, and mechanisms of mental state attribution. Writing proficiency is required for a passing grade in this course. Need to have taken at least two previous philosophy courses.

Prerequisite(s): Successful completion of at least 2 PHL courses.

Writing

PHL366 Metaphysics

W

Hours 3

Advanced study of such traditional metaphysical problems as personal identity, the mind-body problem, action theory, free will, universals, the nature of space and time, creation, causation, and purpose. Must have taken at least two philosophy courses prior to this course. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): Successful completion of at least 2 PHL courses.

Writing

PHL370 Epistemology

W

Hours 3

This course surveys issues in the philosophical study of knowledge. Typical questions addressed include: What is the nature of knowledge? What are the limits of what we can know? When is a belief justified? What can science tell us about the nature of knowledge or rational thought? Must have taken Introduction to Deductive Logic (PHL 195 or PHL 106) and one other philosophy course, or have instructor’s permission. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): PHL 195 or PHL 106 and one other philosophy course, or have instructor’s permission.

Writing

PHL381 Philosophy of Religion

W

Hours 3

Advanced study of such topics in religion as concepts of God and religion, ritual, atheism, the problem of evil, the nature of religious language, traditional proofs of God, the concept of faith, mysticism, the concept of miracle, and the relation between theism and morality. At least two previous philosophy courses required. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): Successful completion of at least 2 PHL courses.

Writing

PHL386 Philosophy of Science

Hours 3

This course will cover some of the main topics in philosophy of science: the demarcation of science and pseudoscience, scientific methods, the nature of evidence, scientific progress, and values and science.

Prerequisite(s): None.

PHL387 Philosophy and Evolution

W

Hours 3

The “Darwinian Revolution” – the acceptance and development of evolutionary theory - is one of the most significant intellectual events in recent human history. It is significant partly because it has changed the way we understand the world, and the processes that operate within it. But it is also significant for the philosophical issues it raises about scientific method, conceptions of human nature, biodiversity, knowledge, ethics and the arts. This course will examine these philosophical issues raised by the Darwinian revolution. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

PHL390 Special Topics in Philosophy

Hours 1-3

This course offers advanced study of a special philosophical topic or movement that is not a part of the Department’s regular course offerings.

Prerequisite(s): Successful completion of at least 2 PHL courses.

PHL391 History of Philosophy

Hours 3

Advanced study of a particular philosopher or philosophical movement or problem in the history of philosophy. Must have taken at least two previous philosophy courses or permission of instructor.

Prerequisite(s): Successful completion of at least 2 PHL courses.
PHL392 Special Topics in Philosophy (Writing Intensive)  
W  
Hours 3  
With an emphasis on philosophical writing, this seminar offers advanced study of a special philosophical topic that is not a part of the Department’s regular course offerings. Prerequisite: successful completion of at least two PHL courses. PHL 392 may be repeated up to 12 hours. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): Successful completion of two PHL courses.

PHL393 Hist of PHL: Sp Top (Writing)  
W  
Hours 3  
Advanced study of a particular philosopher or philosophical movement or problem in the history of philosophy. Writing proficiency within this discipline is required for a passing grade in this course. Must have taken at least two previous philosophy courses or permission of instructor.  
Prerequisite(s): Must have taken at least two previous philosophy courses or permission of instructor.

PHL409 Research in Philosophy  
Hours 1-3  
This course is an opportunity to do self-directed study and writing in an approved topic.

PHL420 Special Studies in Ethics  
Hours 3  
Advanced study of current topics in ethics, which could include study of a particular moral theory or moral problem. PHL 420 may be repeated up to 6 hours.  
Prerequisite(s): At least two previous PHL courses, including PHL 292 or PHL 221.

PHL422 Neuroethics  
W  
Hours 3  
Due to advances in psychopharmacology and brain imaging, scenarios resembling those of science fiction may soon be upon us: Medications that enhance our memory, cognitive abilities, or happiness could be widely available in the near future, and advances in neuroimaging promise to allow the detection of lying, mental illness, or even level of intelligence. Technologies like these bring a host of ethical questions in their wake, ones pertaining to privacy, justice, and authenticity to self. Issues such as these are what compose the field of Neuroethics, and will be what we look at in this class.  
Prerequisite(s): At least two prior philosophy (PHL) courses, though the instructor waives this requirement under certain circumstances.

PHL423 Advanced Seminar in Medical Ethics  
W  
Hours 3  
This course provides an in-depth examination of some of the central ethical issues encountered by physicians and other medical professionals. Students will acquire breadth in the field of medical ethics as well as engage in an in-depth examination of specific issues. Possible topics include: The physician-patient relationship, the role of physicians and other medical professionals, end-of-life decision-making (advance directives, do not resuscitate orders, palliative care, the definition of death), beginning of life decision-making (genetic counseling and prenatal screening), and the ethics of clinical research, and bias and unequal treatment in healthcare practice. The course is specifically aimed at students who are considering a career in healthcare but will be of interest to anyone who has a special interest in biomedical ethics. This course carries a W designation. Writing proficiency within philosophy is required for a passing grade in this course.  
Prerequisite(s): None, although previous coursework in ethics will be helpful.

PHL428 Metaethics  
W  
Hours 3  
In this seminar we will explore issues in contemporary metaethics. Metaethics is concerned with the nature of moral properties, what moral claims mean, and how moral knowledge can be justified. In our everyday lives, we make a number of moral judgments—for instance, that we should not lie to a friend or that it is wrong to steal. Can these moral judgments be factually true, or are they just a matter of opinion? How do we come to know what is right or wrong? These are some of the key questions that will be explored in this course. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): You are required to have taken at least two philosophy classes prior to this one, including one at the 200-level or above; or instructor's permission.

PHL440 Seminar on Law  
W  
Hours 3  
This is a course covering a specialized advanced topic in specific jurisprudence. Specific jurisprudence deals with issues relevant to one area of law or legal system. Example topics are issues in criminal punishment, debates over the proper way to interpret the U.S. Constitution, and the dilemmas of privacy law. The Professor will determine the specific topic each semester the course is offered. It requires writing proficiency in philosophy in order to pass and requires students to draft sustained philosophical arguments.  
Prerequisite(s): B or better in a 200-level course from the jurisprudence list* or instructor's approval, or an A- or better in any PHL class with a writing designation. *PHL 292 or PHL 221 or PHL 230 or PHL 234 or PHL 240 or PHL 241 or PHL 242 or PHL 243 or PHL 256 Note from professor: a "B-" in the above courses is not sufficient
PHL448 Philosophy of Law

W

Hours 3

This is a course covering a specialized advanced topic in general jurisprudence. General jurisprudence deals with issues relevant to law as a whole. Example topics are issues in legal authority, interpretation and rule following, and legal validity. The Professor will determine the specific topic each semester the course is offered. It requires writing proficiency in philosophy in order to pass and requires students to draft sustained philosophical arguments.

Prerequisite(s): B or better in a 200-level course from the jurisprudence list* or instructor's approval, or an A- or better in any PHL class with a writing designation. *PHL 292 or PHL 221 or PHL 230 or PHL 234 or PHL 240 or PHL 241 or PHL 242 or PHL 243 or PHL 256 Note from professor: a "B-" in the above courses is not sufficient

Writing

PHL455 Philosophy through Documentary

Hours 3

This course aims to deepen philosophical understanding primarily through watching and discussing documentary films, supplemented with philosophical readings. The topics covered will vary with the films chosen by the instructor.

PHL462 Neural Basis of Consciousness

W

Hours 3

Consciousness is one of the last great mysteries. Recent years have seen the use of neuroscientific methods to try to understand consciousness, in hopes that this approach succeeds where others failed. This course surveys and analyzes current neuroscientific and philosophical approaches to studying consciousness, the goal being to integrate the two as much as possible. Topics covered include: the relationship between visual consciousness and bodily action; whether higher-order thought is necessary for consciousness; the use of brain lesions in consciousness research; the relationship between attention and consciousness. Because this course carries a W designation, writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): None

Writing

PHL488 Philosophy of Mental Health

W

Hours 3

In this course we will look at a variety of philosophical questions concerning mental health, mental illness, and how we should think about mental health in the context of medical practice more generally. Topics covered may include: Ontology and classification: What makes an illness mental as opposed to physical? When does a mental problem qualify as pathological (and so, get classified as an “illness”) and what are the implications of classifying something as an illness with respect to how we think about and treat it? Research on mental illness: What special challenges arise in studying mental illness? Agency, autonomy, and identity: When is a mental illness autonomy subverting in the sense of undermining a person’s ability to make informed, voluntary decisions? Moral responsibility: When are people with mental illnesses responsible for symptomatic behavior? Stigma and mental illness: In what ways are mental illnesses stigmatized and why are mental illnesses stigmatized more than physical illnesses?

Prerequisite(s): None

Writing

PHL489 Philosophy of Medicine

W

Hours 3

It is difficult to overstate the significance of medicine, in that it affects each of us from birth through death; or the complexity of medicine, in that it involves scientific, conceptual, economic, ethical and philosophical issues. We will here look at three of these issues from a philosophical standpoint: 1) the ways that we conceptualize health and disease; 2) the relation between medicine and science, and the patterns of reasoning associated with medical thinking; 3) the challenge posed by evolution to how we think about medicine, health and disease. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

PHL490 Special Topics in Philosophy

Hours 1-3

This course offers advanced study of a philosophical topic or movement that is not a part of the Department’s regular course offerings. At least two previous philosophy courses or permission from instructor required.

Prerequisite(s): Successful completion of at least 2 PHL courses.

PHL492 Special Topics in Philosophy (Writing Intensive)

W

Hours 3

With an emphasis on philosophical writing, this advanced seminar offers study of a special philosophical topic that is not a part of the Department’s regular course offerings. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite: successful completion of at least two PHL courses. PHL 492 may be repeated up to 12 hours.

Prerequisite(s): Successful completion of at least 2 PHL courses.

Writing
POR101 Elementary Portuguese I

FL

Hours 3

Contemporary Portuguese: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director. Offered each semester. This course is intended for students with NO PRIOR KNOWLEDGE of Portuguese. Native speakers of this language may not take this course. Any student with background knowledge Portuguese must see the CLC director before registering for permission to take it. This course is not repeatable without permission of the CLC director.

Foreign Language

POR102 Elementary Portuguese II

FL

Hours 3

Contemporary Brazilian Portuguese: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native/superior-level speaker of the language. This is a SUPERVISED-SELF-STUDY class. The language “trainer” will help students develop their communicative ability during class meetings. During the class sessions, students will actively participate in practicing spoken language to acquire better pronunciation and conversation skills. English use will be kept to a minimum in class. Language trainers will monitor active participation throughout the semester by use of the STUDENT PERFORMANCE REPORT which will be sent to the director of the CLC. Regular class attendance and participation is required.

Prerequisite(s): POR 101

Foreign Language

POR201 Intermediate Portuguese I

Hours 3

Continuation of Portuguese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.

Prerequisite(s): POR 102

POR202 Intermediate Portuguese II

Hours 3

Continuation of POR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.

Prerequisite(s): POR 102

PSC101 Intro American Politics

SB

Hours 3

Survey of the principles, political institutions, and practices of American national, state, and local politics.

Social and Behavioral Sciences

PSC103 Intro Political Policy

Hours 3

Survey of problems encountered by American governmental units in fields such as agriculture, welfare, education, health, and business regulation.

PSC202 Political Science Methods

Hours 3

Introduction to the conduct of political inquiry and methods of political research.

PSC203 Comparative Politics

Hours 3

Theoretical approaches to the comparative study of national political systems.

PSC204 International Relations

Hours 3

Survey of the evolution of the modern state system and the basic forces in international relations.

PSC205 Political Theory

Hours 3

Survey of fundamental concepts in political theory such as liberty, equality, and authority.

PSC206 Public Administration

Hours 3

Study of the administrative principles and practices in the areas of organization, personnel management, budgeting, government regulation, and democratic controls.

PSC211 State & Local Govt

Hours 3

Study of the institutions and functions of American state and local governments and their relationship to the political process.

PSC311 Pol Party & Elections

Hours 3

Activities of parties and pressure groups in American politics. Attention is given to the social composition, organization, finance, and nominating processes of parties.

PSC312 Amer Legislative Syst

Hours 3

Analysis of the politics and processes of the U.S. Congress, including its Constitutional origins, evolution, current structures and rules, elections, and relationships with the public and other political actors.
PSC313 The American Executive
Hours 3
Examination of the U.S. Presidency, including its Constitutional origins and historical evolution; current structure, selection, and powers; and relationships with the broader executive bureaucracy, Congress, and the public.

PSC314 Amer Judicial System
Hours 3
Introductory analysis of judicial organization, processes, and behavior, with emphasis on the institutional characteristics of the courts.

PSC316 Southern Politics
Hours 3
Examination of the party system of the Southern states in terms of its origin, nature, distribution of power, and impact on national politics.

PSC318 Constitn Law Limits Gov Power
Hours 3
Study of the constitutional foundations of federalism and the separation of powers, with emphasis on the role of the Supreme Court.
Prerequisite(s): PSC 101

PSC319 Con Law Civ Rts and Libs
Hours 3
Study of the Constitution's protections for civil rights and civil liberties, and the Supreme Court's interpretations of them.
Prerequisite(s): PSC 101

PSC320 Special Studies In PSC
Hours 1-3
Supervised independent reading and research. May be repeated for a maximum of 6 hours, with permission of the department.

PSC321 Special Topics In PSC
Hours 3
Course content varies from offering to offering. May be repeated for a maximum of 12 hours, with permission of the department.

PSC330 Democratization
Hours 3
Examination of democratization processes and outcomes in different areas of the world, as well as success and failure in institutionalizing fully democratic systems.
Prerequisite(s): Sophomore standing or permission of the instructor

PSC331 Politics of Developing Nations
Hours 3
This course explores political and economic development within the regions of Latin America, Asia, Africa, and the Middle East.
Prerequisite(s): None
Prerequisite(s) with concurrency: None

PSC333 Soviet Post Sov Politics
Hours 3
Study of institutions and processes in the USSR and the post-Soviet republics, with attention to concepts of authoritarianism, systemic change, and democratization.

PSC334 Government Politics West Europ
Hours 3
Analysis of the democracies of Western Europe. Attention is given to participation, societal cleavages, elections, parties, government institutions, policy making, and the European Union.

PSC335 Soc Movements & Cont Politics
Hours 3
Examination of social movements. Particular attention will be paid to the impact of movements on political processes.

PSC336 African Politics
W
Hours 3
This course introduces students to the politics of contemporary Africa. It challenges the dominant representations of the continent as conflict prone, economically underdeveloped, and politically unstable. Instead, the course presents Africa as a dynamic region comprised of 54 independent states with diverse political and economic realities. Students will explore core themes such as the politics of the state, politics of identity, economic and political development, the politics of conflict and cooperation, and the role of Africa in global affairs. These themes are examined through a variety of learning materials and collaborative-learning methods that expose students to dominant theoretical approaches and political science methodologies. It is important to note that this class is designated as a “W” course, which means “writing proficiency within the discipline is required for a passing grade in this course.”.
Prerequisite(s): N/A
Prerequisite(s) with concurrency: N/A
Writing

PSC340 Civil Wars
Hours 3
This course covers a variety of topics related to civil war using a theoretical and scientific perspective. Topics include the distribution, onset, outcome, recurrence and duration of civil wars, and the management of civil war though third party mediation and negotiated settlements.

PSC342 For Pol Sov Un Suc State
Hours 3
Examination of the influence of the Soviet Union in the evolution of the international system as well as the interests and strategies of Russia and other successor states.
PSC344 The Israel-Palestine Conflict
Hours 3
How are we to make sense of the present-day conflict between Israelis and Palestinians? How do the parties involved see that conflict, and how does it fit into our own conceptions of religion and politics, war and peace, place and space? Why does it seem so intractable? Why does it occupy such prominence in contemporary political discourse? Through an examination of primary and secondary historical texts, literary works, films and artwork, we will explore the origins and unfolding of this conflict both internally (i.e., as emerging from within distinct social-political moments for the people involved) and externally (in relation to broader geopolitical and economic developments). As the conflict remains ongoing, we will strive for compassionate, nuanced engagement; to understand rather than judge; and to find hope for new possibilities.
Prerequisite(s): Background in Middle Eastern politics is not required, but will be of benefit

PSC353 Modern Political Thought
Hours 3
Key political theorists from the sixteenth to the nineteenth centuries. Assigned texts may vary, but typically include works by Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx, and Nietzsche. Topics include conceptions of a just society, the state, the value of political participation, liberty, and equality.

PSC361 Fiscal Policy & Budget
Hours 3
Study of governmental revenue and expenditure policies with emphasis on the budget as a method of administrative and fiscal control.

PSC362 Organization Theory
Hours 3
An examination of traditional and contemporary organizational theory and its application to public administration.

PSC364 African Amer & Polit Sys
Hours 3
A historical and contemporary assessment of the political, social and economic development of African-Americans in the American political system.

PSC365 Introduction to Environmental Policy
Hours 3
This introductory environmental policy course reviews major developments in environmental regulation in the United States, considered in a global context. Readings examine the evolution of U.S. environmental policy, the form and function of social institutions used to govern human-environment interactions, including markets, state and civil society, and conventions, norms, and morals. U.S. and U.N. legal structures, agencies, and NGOs are addressed, with attention to comparative regulatory frameworks. The “new institutional approach,” “resource regimes,” and various incremental and transformative institutional reforms are discussed. The impact of economic and cultural factors—including class, race, gender, and location—on resource use and other policy decisions affecting the physical and built environments will be explored. Evolving institutional approaches to energy use, such as sustainability, “wise use,” adaptive management, and resilience are examined. This course is cross-listed with NEW 365.
Prerequisite(s): No prerequisites are required.

PSC370 American Public Policy
Hours 3
This course provides a broad overview of public policy in the United States. In addition to learning about the policy process and policy analysis, we will examine the historical context and contemporary status of several policy issues.
Prerequisite(s): None
Prerequisite(s) with concurrency: None

PSC399 Internship In PSC
Hours 3-6
Students may receive credit for internships they secure in offices, agencies or organizations related to Political Science. Students must secure the agreement of a faculty member to supervise the internship.

PSC411 Public Opinion
Hours 3
The formation, distribution, structure, properties, and techniques of measuring public opinions in the United States.

PSC413 Amer Foreign Policy
Hours 3
Examination of the forces and processes affecting United States foreign relations. Attention is also given to the content and problems of contemporary American foreign policy.

PSC414 Foreign Policy Decisionmaking
Hours 3
This is an overview of the key components of Foreign Policy Decision Making (FPDM). Students are expected to learn the theories and models of FPDM and be able to apply them to case studies of foreign decisions. This course is distinguished from PSC 413 by specifically focusing on how and why decisions are made.
Prerequisite(s): None; PSC 204 is recommended
Prerequisite(s) with concurrency: None

PSC416 Migration and American Politics
Hours 3
This course examines how great movements of people have shaped American politics and policy.
Prerequisite(s): None
Prerequisite(s) with concurrency: None

PSC421 Seminar in Political Science, Writing Intensive
W
Hours 3
May be repeated for a maximum of 6 hours. Selected problems in various areas of political science. Topics, instructors, and political science subfields covered will vary by instructor and semester. Writing proficiency within this discipline is required for a passing grade in the course.
Writing

PSC422 Seminar Political Science
Hours 3
May be repeated for a maximum of 6 hours. Selected problems in various areas in political science. Writing proficiency within this discipline is required for a passing grade in this course.
PSC433 Communism Europe 1945-89  
Hours 3  
Examination of the interaction of Marxist theory and practice in various national settings. Attention is given to the differential evolution of parties and regimes and to reasons for the dissolution of communist systems.

PSC434 Internat'l Polit Econ  
Hours 3  
The course deals with the international trade and finance regimes, foreign economic policy, transnational corporations in the world economy, North/South and East/West relations, and the implications of economic interdependence.

PSC435 War And Peace  
Hours 3  
Study of the causes of war at the individual, societal and international levels of analysis with particular emphasis on international relations research using the scientific method.
Prerequisite(s): PSC 204 or PSC 413

PSC436 Non-Communst East Europe  
Hours 3  
An examination of the political issues, processes, and institutions, primarily in the formerly communist states of East-Central Europe.

PSC437 Post Communism  
Hours 3  
Examination of processes of democratization and reversion to authoritarianism in East Central Europe and Eurasia. Political, social, and economic alterations of communist arrangements are discussed. Writing proficiency within this discipline is required for a passing grade in this course.

PSC438 Govt and Politics of S. Asia  
Hours 3  
Examination of South Asian states. Attention is given to the legacies of colonialism, political institutions, democratization, economic development, political conflict and regional security.

PSC439 Politics and Policy of the United Kingdom  
Hours 3  
This course will introduce you to the government, politics and policy of the United Kingdom (UK). Topics will include political history, parties, interest groups, elections, governing institutions (Parliament, the Prime Minister and Cabinet), regional issues including Northern Ireland, Britain’s process of leaving the European Union (“Brexit”), and a number of specific policy areas. After a brief survey of the political history of Britain, the course will focus on post-WWII politics and policy, from the creation of the National Health Service and the growth of the welfare state in the early post-war years, to the "Thatcher revolution" of the 1980s and its emphasis on free market principles, Prime Minister Tony Blair’s "Third Way" policies, the coalition government of 2010-15, and the current minority government. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PSC 101 and junior class status, or permission of instructor

PSC441 Terrorism  
Hours 3  
Explores the definition and dynamics of domestic and international terrorism, terrorist ideas and terrorist organization, and the political problems of suppressing terrorism.

PSC442 Internat'l Conflict  
Hours 3  
Examination of the various kinds of violent conflicts in which nation-states become involved.

PSC443 Comparative Pub Policy  
W  
Hours 3  
Analysis of domestic policy in advanced industrialized democracies, looking at both policy process and policy substance. Attention will be given to the questions of how and why policies differ across countries, and how one might evaluate policy performance cross-nationally. Writing proficiency within this discipline is required for a passing grade in this course.
Writing

PSC446 Political Economy of Security  
Hours 3  
The course will cover a variety of topics that link security and political economy. Writing proficiency within this discipline is required for a passing grade in this course.

PSC448 Human Rights & Institutions  
Hours 3  
This class examines how domestic and international institutions create incentives or constraints leading to human rights violations or protections from a social science perspective.

PSC452 American Political Thought  
Hours 3  
Investigates primary sources and secondary literature covering the origin and direction of the U.S. political ideology. Topics typically include liberalism, civic republicanism, and debates between contemporary scholars concerning American exceptionalism.

PSC462 Public Personnel Admin  
Hours 3  
Study of the American public personnel system at the local, state, and national level. Emphasis is on such areas as the political activity of government employees, the application of the principle of equal opportunity and affirmative action, and the role of collective bargaining in government.
PSC464 The Politics of Health Policy
Hours 3
We examine health policy at all levels of government, with particular focus on the interdependence of the national, state, and local governments to provide health services. The political environment of health policymaking and implementation is explored. Health policies such as Medicaid, Medicare, and the Affordable Care Act will be examined, as well as other policies that impact health. We examine the policymaking process in general, applying health policy to the concepts and theories. We compare the US health care system with systems in other industrialized democracies.

Prerequisite(s): Approval of academic advisor and at least junior status.

PSC465 The Politics of Sex
Hours 3
There are three key components to this course: 1) the status of women in politics and society, 2) the role of social movements and the Supreme Court regarding the status of women in politics and society, and 3) a substantive policy issue related to the politics of sex determined by class vote (possibilities include reproductive rights, marriage equality, sexual assault on campus, and others).

Prerequisite(s): Junior status.

PSC466 The Politics of Poverty
W
Hours 3
In this course we will examine one of the most enduring social problems in the United States – poverty. The course is divided into three sections. In the first section, we will primarily focus on the conceptualization and measurement of poverty, as well as the demographic groups that are most likely to suffer from high poverty rates. In the second part of the course, we will review in detail the major government programs aimed at alleviating poverty. We will examine their historical development, their structure and the social science research on their effectiveness. In the third section of the course we will review alternative explanations for poverty, focusing on the distinction between individual and structural explanations and how it influences public discourse and the politics of poverty. As this is an upper level course that fulfills the university’s writing requirement, there will be a significant amount of writing in this class. Writing proficiency within this discipline is required for a passing grade in this course. A student who does not demonstrate writing skills appropriate for an upper-division undergraduate course will not receive a passing grade, regardless of that student’s performance in other aspects of the class.

Writing

PY101 Intro To Psychology
SB
Hours 3
Basic principles of psychology.
Social and Behavioral Sciences

PY105 Honors Intro Psychology
SB, UH
Hours 3
Honors section of PY 101.
Social and Behavioral Sciences, University Honors

PY207 Psychology Of Adjustment
Hours 3
Basic principles of mental health and an understanding of the individual models of behavior.
Prerequisite(s): PY 101 or PY 105

PY211 Elem Statistical Methods
Hours 3
Methods are presented that enable students to make inferences about a population from a knowledge of small samples. Offered each semester and in the summer session.
Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146 and PY 101 or PY 105

PY313 Sensation and Perception
Hours 3
Physiological and psychophysical aspects of the senses.
Prerequisite(s): PY 101 or PY 105

PY321 Professional Issues Proseminar in Psychology
Hours 1
Course orients psychology majors to career opportunities for psychology majors terminating with a BA or BS, as well as those students moving on to post-graduate work.
Prerequisite(s): PY 101 or PY 105
PY352 Developmental Psych
Hours 3
Physical, intellectual, emotional, and social development throughout the life span.
Prerequisite(s): PY 101 or PY 105

PY353 Biological Basis of Psychological Disorders
Hours 3
There is increasing evidence that biological factors either increase risk for or directly cause many psychological disorders. This lecture-based course focuses on understanding biological research on psychological disorders, including research on biological risk factors, biological factors associated with the presence of disorders, and the biological effects of various forms of treatment (e.g., therapy and medication). We will take an interdisciplinary approach, reviewing research from neuroscience, psychopharmacology, biochemistry, genetics, epigenetics, endocrinology, and physiology to understand the biological bases of the development of and treatments for psychological disorders. The course will include an introduction to a variety of biological research methods. The course will include brief introductions to the major psychological disorders listed in DSM-V, but will primarily focus on providing an understanding of the biological basis of these disorders. The course will also include discussions about controversial and ethical issues related to biological research on psychological disorders.
Prerequisite(s): PY101 or PY105 is required, or upon instructor permission

PY355 General Experimental Psychology
Hours 3
Scientific methods applied to the problems of psychology.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 356

PY356 Research Laboratory
Hours 2
Application of experimental and statistical techniques in a laboratory setting.
Prerequisite(s): PY211 (grade of C- or higher required) AND 9 hours of Psychology coursework.
Prerequisite(s) with concurrency: PY 355

PY357 Advanced Statistical Methods: Regression
Hours 3
Regression models are ubiquitous in both social and psychological sciences. Understanding the fundamentals of these models is critical to a solid career in science. The purpose of this course is to provide students with in-depth knowledge of regression analysis, such as linear regression, model selection, and logistic regression, including topics such as generalized linear models and parameter estimation.
Prerequisite(s): PY 101 PY 211

PY358 Abnormal Psychology
Hours 3
Etiology, symptomatology, and treatment of the major mental behavioral disorders.
Prerequisite(s): PY 101 or PY 105

PY361 Psychology Of Learning
Hours 3
Theoretical and applied implications of principal findings in learning, memory, and cognition.
Prerequisite(s): PY 101 or PY 105

PY365 Psychology Of Aging
Hours 3
The intellectual, social, cognitive, and physical development in adulthood with special emphasis on late adulthood.
Prerequisite(s): PY 101 or PY 105

PY368 Intro To Personality
Hours 3
A study of theories that represent the psychoanalytic, neopsychoanalytic, trait, life span, humanistic, cognitive, behavioral and social-learning approaches to understanding human behavior. Clinical and experimental data are used to evaluate representative personality theories.
Prerequisite(s): PY 101 or PY 105

PY370 History & Systems in Psychology
Hours 3
A detailed presentation of the systematic points of view in Psychology with a consideration of their historical origins and significance for modern thought.
Prerequisite(s): PY 101 or PY 105

PY371 Psychology Of Gender
Hours 3
Review of the contribution of psychological theories and research to the understanding of sex differences in general and to women's roles in particular.
Prerequisite(s): PY 101 or PY 105

PY372 Social Psychology
Hours 3
Major aspects of social psychology, including aggression, altruism, attitude change, interpersonal relations, prejudice, leadership, and group dynamics.
Prerequisite(s): PY 101 or PY 105

PY375 Special Topics In Psychology
Hours 3
Courses devoted to topics not currently covered in the Psychology curriculum will be offered under this title.
Prerequisite(s): PY 101 or PY 105

PY376 Special Topics in Psychology: Behavioral Medicine
Hours 3
This course explores the theories, research, and practice of behavioral medicine, particularly as it relates to integration of behavioral health into primary medical care. Students will examine the roles of psychology and other behavioral health professions in research and practice within healthcare. Theories of practice in the field of behavioral health will be covered. Students will develop competence in the connection between behaviors and health.
PY377 Psych Law And Justice
Hours 3
Psychological interpretations of criminality, treatment of offenders, and the roles of psychologists and psychological issues in the justice system.
Prerequisite(s): PY 101 or PY 105

PY378 Junior Honors Seminar
UH
Hours 1
The course is the first semester of a four-semester honors sequence. Exposure to research methods and opportunities for research within the Department of Psychology.
Prerequisite(s): PY 355
Prerequisite(s) with concurrency: PY 355
University Honors

PY379 Junior Honors Seminar
UH, W
Hours 3
The course is the second semester of a four-semester honors sequence. Preparation of a research proposal and approval of thesis committee is required. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PY 378
University Honors

PY380 Practicum in Community-based Psychology
Hours 3
This course combines specialized coursework with hands-on mentoring of middle and high school youth. It explores the development of civic engagement in youth and how to promote it.
Prerequisite(s): PY 101

PY381 Cognitive Neuroscience
Hours 3
How does our brain give rise to our abilities to perceive, act and think? Survey of the basic facts, empirical evidence, theories and methods of study in cognitive neuroscience exploring how cognition is instantiated in neural activity. Representative topics include the neural underpinnings of perceptual and motor processes, decision making, learning and memory, attention, reinforcement learning, sensory inference, and cognitive control. The course will cover a functional analysis of cognitive disorders from a biological basis and the relation between brain and behavior. The latter will be addressed through studies of lesion localization and neuroimaging of the intact brain. This class should prepare you to take more specialized upper level classes in specific areas of neuroscience.
Prerequisite(s): PY 101 or PY 105

PY391 Junior Seminar
W
Hours 3
Course will expose students to specialty areas in Psychology and provide opportunities to develop skills associated with writing and oral presentation.
Prerequisite(s): PY 101 or PY 105 and PY 211
Writing

PY395 Child Mental Health: Theory and Field Experience
Hours 3
The course will expose students to issues in child mental health and treatment, with a focus on professional ethics, mentoring, and evidence-based treatments for childhood disorders. The course will combine in-class lecture/discussion with a practicum experience at Brewer Porch.
Prerequisite(s): PY 101

PY413 Physiological Psych
Hours 3
Bodily structures (nervous, muscular, and glandular) underlying behavior.
Prerequisite(s): PY 355

PY451 Undergraduate Research
Hours 1-3
Individual research projects. A maximum of 6 credit hours may be earned in PY 451.
Prerequisite(s): PY 355

PY461 Child Psychology
Hours 3
Observational and research procedures with infants and young children, with emphasis on operant learning and socialization processes. Suggested for undergraduate seniors.
Prerequisite(s): PY 355

PY470 Intro Cognitive Psychlgy
Hours 3
Contemporary approaches to cognitive psychology, including topics such as attention and memory.
Prerequisite(s): PY 355

PY478 Senior Honors Seminar
UH
Hours 2
The course is the third semester of a four-semester honors sequence. Implementation of an approved research proposal.
Prerequisite(s): PY 379
University Honors
PY479 Senior Honors Seminar  
_UH_  
Hours 3  
The course is the final semester of a four-semester honors sequence. Preparation and defense of senior honors thesis.  
Prerequisite(s): PY 478  
University Honors  
PY481 Readings In Psychology  
Hours 1-3  
Selected supervised readings. May be repeated for a maximum of 6 hours.  
Prerequisite(s): PY 105 or PY 101 or PY 355 or PY 356  
PY491 Senior Seminar In Psychology  
_W_  
Hours 3  
Thorough examination of a selected contemporary psychological area. Different topics are offered each semester; descriptions are available at registration. Writing proficiency within this discipline is required for a passing grade in this course. Offered each semester and in the summer session. May be repeated for a maximum of 6 hours.  
Prerequisite(s): PY 355 and PY 356  
Writing  
PY495 Teaching Internship  
Hours 3  
Supervised experience and training in teaching, course administration, etc., as additional preparation for students planning to pursue graduate study in psychology.  
REL100 Intro To Religious Studies  
_HU_  
Hours 3  
Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures. This course is required of all majors and minors.  
Humanities  
REL101 The Violent and the Sacred: Religion and the Problem of Human Suffering  
_HU_  
Hours 3  
This introductory course examines the socio-cultural constructs called "religion" and "violence" with the help of academic theories and theorists in order to consider relationships between the two. The course introduces theories of evil, violence, and hatred, using historical and contemporary case studies on such topics as terrorism and genocide.  
Prerequisite(s): N/A  
Humanities  
REL102 Intro to Religions of the World  
_HU_  
Hours 3  
This comparative study of religions highlights complexity in world religions. Topics, such as texts, practices, and deities, organize the study of different pairs of religions.  
Humanities  
REL103 Religion in the News  
_HU_  
Hours 3  
This introductory level course examines the place and function of religion in modern culture by examining the way stories are (or are not) identified as religious in news media. Drawing on various historical examples—from print to digital media—the course introduces students to the academic study of religion through case studies of how religion is commonly represented in the media, paying particular attention to the possible motives and practical consequences to classifying claims, actions and organizations as religious or not. As part of the core curriculum, this course addresses the ability of students to deal with questions of values, ethics, or aesthetics as they are represented in the humanistic fields of religious studies and history. The course is broad in scope and takes a global perspective of religion and news media and the relationship between all points of view on these subjects. The emphasis of the course is the history and appreciation of religion, media, and culture.  
Humanities  
REL104 Religion in Pop Culture  
_HU_  
Hours 3  
Instead of assuming that religion is a distinct aspect of the human, one that interacts only with elements of elite or high culture, this course examines the ways that the beliefs and behaviors that we commonly classify as religious are a part of everyday culture—in particular, the ways that they are produced by and in turn influence popular culture. Myths, rituals, and traditions circulate all throughout mass culture via print, radio, television, and now the web. The course therefore introduces students to a set of recent, historical examples where the scholar of religion can shed light on the workings of contemporary day-to-day life. As a part of the core curriculum, this course addresses the ability of students to deal with questions of values, ethics, or aesthetics as they are represented in the humanistic fields of learning regarding the study of religion, film, art, music, and online media. The course is broad in scope and takes a global perspective on religion and popular culture as well as the relationship between all points of view on these subjects. The emphasis of the course is the history and appreciation of religion and popular culture.  
Prerequisite(s): None.  
Humanities  
REL105 Honors Intro Relig Stdy  
_HU, UH_  
Hours 3  
Honors version of REL 100.  
Humanities, University Honors
REL106 Introduction to Ancient Greek Religions

HU

Hours 3

This course is an introduction to the myths and practices of what contemporary scholars call ancient Greek religion. It examines the problem of defining “religion,” and translating specific ancient Greek terms as “religion,” and the implication involved in this process.

Humanities

REL110 Intro To The Old Testament

HU

Hours 3

Introduction to the books of the Old Testament, or Hebrew Bible as it is known in Judaism, in their historical setting, with emphasis on textual analysis and on literary forms and their function and use in the past and present.

Humanities

REL112 Intro To New Testament

HU

Hours 3

Introduction to the Hellenistic world of early Christianity, examining the early traditions about Jesus that were organized into the Gospels and the letters of Paul.

Humanities

REL120 Religion and Science

HU

Hours 3

This course is a broad, interdisciplinary introduction to the ways in which “science” and “religion” have been defined.

Humanities

REL124 Religion and Film in America

HU

Hours 3

This course considers popular film as a site for investigating and critiquing religion in America. Historically significant, as well as currently popular, films are examined in relation to academic writings about film and religion in order to gain a greater understanding of the role religious rhetoric, imagery, and concepts play in American popular culture.

Humanities

REL130 Religion, Politics, and Law

HU

Hours 3

This introductory level course examines the construction of religion through law, politics, and the nation-state. Students are introduced to the role of religion in liberal political theory, secularism, and the modern rise of the nation-state. This course will be particularly helpful to students interested in religious studies, history, political science, law, and philosophy.

Humanities

REL206 Hinduism

Hours 3

This course comprises a broad, comprehensive, and interdisciplinary introduction to the practices and conceptions that people identify as Hinduism.

Prerequisite(s): None; it is recommended that students have already taken REL 100 and REL 102 but this is not required.

REL209 Buddhism

HU

Hours 3

This course offers a survey of religious themes and movements related to Buddhism in various Asian countries and North America. The topics include historical narratives, interpretations of texts, transformations of rituals, diaspora and identity, nationalism and politics, and Buddhism in contemporary culture.

Humanities

REL220 Survey Of Asian Religion

HU

Hours 3

Introductory survey of the major religious traditions of Asia, including Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

Humanities

REL223 Holocaust Historical Perspecti

Hours 3

Examination of this event, and scholarship on it, from various historical and critical perspectives.

REL224 Judaism

HU

Hours 3

A study of some of the leading schools and interpreters of Judaism and a review of modern developments including the Holocaust and the State of Israel.

Prerequisite(s): No prerequisites required.

Humanities

REL226 African Diaspora Religions

HU

Hours 3

Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African-American religions in North America), focusing on the interplay between religion, culture and politics.

Humanities

REL228 Hy Of Christian Thought

Hours 3

The major theological orientations that have shaped Christianity in various social and historical contexts.
REL231 Religious Existentialism  
**HU**  
Hours 3  
This course surveys the history of a very influential school of modern, Western religious thought called religious existentialism. We will review the major texts, authors, and themes of this eclectic movement. The course will include study and discussion of texts by Kierkegaard, Dostoevsky, Buber, Heidegger, de Beauvoir, Sartre, Fanon, Derrida, Cixous and Zizek.  
Humanities  

REL234 Women And Religion  
Hours 3  
The role and place of women in several religious traditions, ancient and modern.  

REL236 Islam  
**HU**  
Hours 3  
An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.  
Humanities  

REL237 Self Society & Religions  
Hours 3  
A survey of psychological and social theories used to study religion, drawing on different cultural and historical data of relevance to the approaches surveyed.  

REL238 Philosophies Of Judaism  
Hours 3  
Survey of major philosophical formulations of the nature and role of Jews and Judaism, written by select Jewish thinkers.  

REL240 Apocalypse In Popular Media  
**HU**  
Hours 3  
Examines contemporary depictions of apocalypse and dystopia in popular media.  
Humanities  

REL241 American Religious History  
**HU**  
Hours 3  
This course offers a survey of religious themes and movements in American culture from the period before European colonization to the present. It is of particular use for students interested in American history, law, American studies, religious studies, and cultural studies.  
Humanities  

REL245 Honors Hist. Religions of Amer  
**UH**  
Hours 3  
This Honors course offers a survey of religious themes and movements in American culture from the period before European colonization to the present.  
University Honors  

REL311 English Bible As Literature  
**W**  
Hours 3  
Analytical and critical study of a number of books of the Bible; each book is examined and evaluated as an example of a particular literary genre. Writing proficiency within this discipline is required for a passing grade in this course.  
Writing  

REL321 Rel & Ident in South Asia  
Hours 3  
Investigates the intersections of various social divisions and identities with religious labels and practices by analyzing case studies from South Asia.  

REL322 Tales from Asia: Told and Retold in Film and Popular Culture  
**W**  
Hours 3  
This core writing course analyzes retellings of ancient tales within contemporary popular culture, investigating versions of two specific stories, the Ramayana and Journey to the West, to address issues surrounding myths and cultural identity and the ways people adapt stories for various ideological purposes, including the politics of translation, adaptation, and classification.  
Prerequisite(s): None  
Prerequisite(s) with concurrency: None  
Writing  

REL336 Islam and the West  
**W**  
Hours 3  
Media coverage of Muslims in the United States and Europe often focus on some kind of comparison or contrast between Islam and "the West." This course examines how ideas of Islam and the West have been co-constructed. Writing proficiency within this discipline is required for a passing grade in this course.  
Writing  

REL341 Theories of Myth  
**W**  
Hours 3  
From Hercules to Achilles, to Odysseus, and from Oedipus Rex to Medea, myths of the ancient Greek world are as popular today as they were thousands of years ago. Why do we re-tell those ancient myths today? What makes something a myth? What's the difference between a myth and a story? How did scholars try to explain the origin and function of myths? Do we produce myths today? The course will address those questions by looking at several myths of the ancient Greco-Roman world but also will look at the theories scholars developed in order to understand those stories. The course examines the history of differing theories of myth, conceived as a sub-type of narrative. Writing proficiency within the discipline is required for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student in Religious Studies will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Writing
REL342 Theories of Ritual
W
Hours 3
This Core Writing course explores a wide range of rituals in diverse religious, social, and cultural contexts. We examine various theories about the definitions, meanings, and roles of ritual. Writing proficiency within the discipline is required for a passing grade in this course.

Writing

REL347 Jewish-Christian Relations
W
Hours 3
Critical examination of the 2,000-year-old relationship focusing on areas of commonality and difference.

Writing

REL350 Religion in Colonial Empire
W
Hours 3
This course explores the role of colonial contact and the encounter between Europe and its others in the construction of religion as a category in the West. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

REL351 Asian Religions in America
W
Hours 3
This course introduces the history and development of Asian religions in American culture. Topics will include immigrant groups, American-born converts, and the ways Asian religions have been represented and imagined in American culture. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

REL355 The Rhetoric of Religious Conviction
W
Hours 3
Examines the resort to religion in the rhetoric and actions of selected public figures. Appeals to religious values will be critically analyzed in relation to the writings and works of persons such as Dorothy Day, Desmond Tutu, Dietrich Bonhoeffer, Malcolm X, Mahatma Gandhi, Mother Teresa, Oscar Romero, Martin Luther King, or Sojourner Truth.

Writing

REL360 Individual Research
Hours 1-3
Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL361 Individual Research
Hours 1-3
Supervised research of the student's choice. May be repeated for a maximum of 12 hours for differing topics. Speak with the professor before registering.

REL370 Adv Study Religion In Religion and Communication
Hours 3
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL371 Adv St Religion and Conflict
Hours 3
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL372 Adv Std Religion and Context
Hours 3
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL373 Seminar Rel and Communication
Hours 3
Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL400 Religious Studies Honors Thesis
Hours 3
REL 400 is an independent research course in which the student conducts Honors Thesis research under the guidance of a thesis advisor. Research projects will include the development of an original research question; in-depth research into relevant secondary and primary sources; a prospectus outlining the proposed thesis; a 15-25 page long essay with reference notes and annotated bibliography; and an oral presentation of the research. Students will meet regularly with the thesis advisor throughout the semester during which the course is undertaken. Talk to the REL advisor for more information.

Prerequisite(s): Permission of the Instructor

REL410 Religion and Genocide
Hours 3
Explores the phenomenon known as genocide by examining its relationship to the religion in both its institutional and theological frameworks.

REL415 Religion in the American South
W
Hours 3
This Writing course will look at the roles and implications of myths and rituals in the American South, using the UA campus as its own case study and talking about how notions of "the past" come to be invented in different ways for different social purposes through memorials and monuments. Because the course carries the Core "W" designation, an important component of the seminar is the culminating term paper, which we will take through the writing process throughout the semester. This includes brainstorming, drafting, peer editing, and revising.

Writing
REL419 Adv Studies in Myth and Ritual

W

Hours 3

Examination of the theories and methods used to study the relations between religious narrative and behavioral systems, with a focus on myth and ritual. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

REL420 Gospel Of Mark

W

Hours 3

Investigates the Gospel of Mark through the disciplines of contemporary biblical, literary, and cultural criticism. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

REL430 Religion and Literature

W

Hours 3

This course will examine religion and literature in light of what both discourses rely heavily on: namely, canon formation. From a critical starting point that views these two categories as socio-cultural products, we will discuss problems of authorship, readership, and canonicity with a particular eye toward the questions and implications of decisions that are made regarding what “counts” in literary or religious traditions. *This course carries the W designation. Thus, writing proficiency within the discipline is required for a passing grade. An important component of the seminar is the mastering the steps in the writing process, which we will be utilizing throughout the semester. These steps include brainstorming, drafting, peer editing, and revising.

Writing

REL436 Making Islam: Debating Authenticity and Authority

Hours 3

This course is a study of how various agents (both Muslim and non-Muslims) construct, debate, and refute ideas about Islam in popular culture and academic sources. We will pay particular attention to how scholars attempt to make sense of such diverse accounts, the assumptions that they make, and the roles that they play in debates over the nature of Islam.

Prerequisite(s): None

REL440 Theories of Religion

Hours 3

Examines classic and contemporary theories of religion such as functionalism, structuralism, Marxism, and psychoanalysis. Emphasis may vary with each offering.

REL455 Popular Culture and Religion Seminar

Hours 3

A seminar on method in the study of religion and popular culture based in the ongoing projects of seminar participants.

Prerequisite(s): permission of instructor

REL460 Individual Research

Hours 1-3

Supervised research of the student's choice. May be repeated for a maximum of 12 hours for differing topics. Speak with the professor before registering.

REL461 Individual Research

Hours 1-3

Supervised research of the student's choice. May be repeated for a maximum of 12 hours for differing topics. Speak with the professor before registering.

REL480 Seminar Rel and Conflict

Hours 3

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL483 Seminar Rel and Context

Hours 3

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL490 Senior Capstone Seminar

Hours 3

A seminar offered spring semester of each year for seniors pursuing a major or minor in religious studies or minor in Judaic studies. The professor and subject of the seminar rotate through the four areas of the curriculum. Required of all majors and minors in the Department. May be repeated for a maximum of 9 hours for differing topics.

RL380 Special Topics in Linguistics

Hours 3

At a level of complexity and detail that is appropriate to an intermediate course, students are to examine various topics related to linguistics. Specific topics may be primarily theoretical, applied or descriptive in nature, or a combination, and may be narrowly focused or may pertain to a wide variety of languages and dialects. Weekly in-class discussions based on readings and other assigned activities prepare students for the final written project, which involves the application of the various theoretical, critical and methodological approaches acquired in the special topics course.
RL470 Seminar in Linguistics  
Hours 3
At a level of complexity and detail that is appropriate to an advanced seminar, students are to examine various themes related to linguistics. Specific themes may be primarily theoretical, applied, socially oriented or descriptive in nature, or a combination, and may be narrowly focused or may pertain to a wide variety of languages and dialects. When themes are sociolinguistic in focus, they may be diachronic (involving change over time) or synchronic (specific to a certain time period). Weekly in-class discussions based on readings and other assigned activities prepare students for the final project, which is typically both oral and written and which involves the application of the various theoretical, critical and methodological approaches acquired in the seminar.

RL480 Special Topics in Linguistics  
Hours 3
At a level of complexity and detail that is appropriate to an advanced course, students are to examine various topics related to linguistics. Specific topics may be primarily theoretical, applied, socially oriented or descriptive in nature, or a combination, and may be narrowly focused or may pertain to a wide variety of languages and dialects. When topics are sociolinguistic in focus, they may be diachronic (involving change over time) or synchronic (specific to a certain time period). Weekly in-class discussions based on readings and other assigned activities prepare students for the final project, which is typically both oral and written and which involves the application of the various theoretical, critical and methodological approaches acquired in the special topics course.

RUS101 Elementary Russian I  
FL, HU  
Hours 4
This course will teach the basics of Russian grammar while emphasizing the acquisition of reading, listening, and speaking skills by the student.

Foreign Language, Humanities

RUS102 Elementary Russian II  
FL, HU  
Hours 4
This course will teach the basics of Russian grammar while emphasizing the acquisition of reading, listening, and speaking skills by the student. Overall, this course addresses the ability to deal with questions of values, ethics and esthetics as they are represented in foreign languages and related fields in the Humanities which will be the focus. This course emphasizes the history and appreciation of the Humanities.

Prerequisite(s): RUS 101

Foreign Language, Humanities

RUS201 Intermediate Russian I  
HU  
Hours 3
This course will continue the basics of Russian grammar while emphasizing the acquisition of reading, listening, and speaking skills by the student. Overall, this course addresses the ability to deal with questions of values, ethics and esthetics as they are represented in foreign languages and related fields in the Humanities which will be the focus. This course emphasizes the history and appreciation of the Humanities.

Prerequisite(s): RUS 102

Humanities

RUS202 Intermediate Russian II  
HU  
Hours 3
This course will finish the basics of Russian grammar while emphasizing the acquisition of reading, writing, listening, and speaking skills by the student. Overall, this course addresses the ability to deal with questions of values, ethics and esthetics as they are represented in foreign languages and related fields in the Humanities which will be the focus. This course emphasizes the history and appreciation of the Humanities.

Prerequisite(s): RUS 101, RUS 102 and RUS 201

Humanities

RUS223 Russian Literature in Translation I  
HU, L  
Hours 3
A survey of Russian literature from its beginnings until the 1880’s. Trends covered include Neo-Classicism, Sentimentalism, Romanticism, and Realism. This course covers poetry, drama and prose (short story and novel). All materials are read in English. No knowledge of Russian is required for this course. Overall, this course addresses the ability to deal with questions of values, ethics and esthetics as they are represented in literature and related fields in the Humanities which will be the focus. This course emphasizes the history and appreciation of the Humanities, rather than simply the ability to perform tasks at the written level. Nevertheless, this course will include substantial in-class and out-of-class writing that encourages the development of critical thinking and requires students to analyze, synthesize, and evaluate knowledge.

Humanities, Literature
RUS224 Russian Literature in Translation II

HU, L

Hours 3

Survey of modern Russian literature from the latter two decades of the 19th century to the present. Trends covered include Neo-Realism, Symbolism, Acmeism, Futurism and Socialist Realism. This course covers poetry, drama and prose (short story and novel). All materials are read in English. No knowledge of Russian is required for this course. Three (3) credit hours. This course bears the HU and L designations of the university core curriculum. Overall, this course addresses the ability to deal with questions of values, ethics and aesthetics as they are represented in literature and related fields in the Humanities which will be the focus. This course emphasizes the history and appreciation of the Humanities, rather than simply the ability to perform tasks at the written level. Nevertheless, this course will include substantial in-class and out-of-class writing that encourages the development of critical thinking and requires students to analyze, synthesize, and evaluate knowledge.

Humanities, Literature

RUS252 Russian Folklore

HU, L

Hours 3

This course will introduce the student to the basic materials of Russian folklore. Students will read the primary materials in English translation. No knowledge of Russian is required for this course. Overall, this course addresses the ability to deal with questions of values, ethics and aesthetics as they are represented in literature and related fields in the Humanities which will be the focus. This course emphasizes the history and appreciation of the Humanities, rather than simply the ability to perform tasks at the written level. Nevertheless, this course will include substantial in-class and out-of-class writing that encourages the development of critical thinking and requires students to analyze, synthesize, and evaluate knowledge.

Humanities, Literature

RUS325 Dostoevsky

W

Hours 3

This course will cover the life and major works of Fyodor Dostoevsky. Writing proficiency required for a passing grade in this course. All materials are read in English translation. No knowledge of Russian is required for this course. Three (3) credit hours. This course bears the W designation of the university core curriculum. Writing proficiency within the discipline is required for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student in the discipline will not be given a passing grade, no matter how well the student performs in other areas of the course. This course will include substantial in-class and out-of-class writing that encourages the development of critical thinking and requires students to analyze, synthesize, and evaluate knowledge.

Writing

RUS326 Tolstoy

W

Hours 3

The life and works of Leo Tolstoy. No knowledge of Russian is required. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

RUS352 History of Russia and the Soviet Union since 1894

Hours 3

Russia and the Soviet Union since 1894. Same as HY 362.

RUS361 Adv Rus Grammar Comp I

Hours 3

The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.

Prerequisite(s): RUS 202

RUS362 Adv Rus Grammar Comp II

Hours 3

The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.

Prerequisite(s): RUS 361

RUS401 Directed Readings

Hours 1-3

No description available

RUS402 Directed Readings

Hours 1-3

No description available

RUS426 Readings in Russian History

Hours 3

This course introduces students to advanced texts in Russian thematically focused on Russian history.

Prerequisite(s): RUS 362

RUS427 Business Russian

Hours 3

Acquisition of business Russian used in commercial transactions. Emphasis is on business letters and business conversation.

Prerequisite(s): RUS 310 or RUS 362
SAN101 Elementary Sanskrit
FL
Hours 3
Ancient Sanskrit: reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have reading and writing sessions three hours per week with a “language trainer” who is a superior-level reader of the language. Native Hindi speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director.

Foreign Language

SOC101 Intro To Sociology
SB
Hours 3
Introduction to the scientific study of human social behavior.

Social and Behavioral Sciences

SOC202 Social Problems
SB
Hours 3
Study of contemporary social problems, including definition, description, and analysis. Emphasis is on social change perspectives and cultural complexity.

Social and Behavioral Sciences

SOC205 Social Psychology
Hours 3
Not open to students who have earned credit in PY 372. Study of the interrelationships between the individual and the group. Includes perception, cognition, attribution, attitudes, helping behavior, aggression, personal relationships, prejudice, and gender in social life. Also includes aspects of applied social psychology.

SOC215 Animals and Society
Hours 3
Using symbolic interaction as the main theoretical perspective, this course explores the social relationship between humans and animals and examines the social meanings which shape the roles and status of animals in society and our interactions with them.

SOC216 Sports and Society
Hours 3
The study of the structural and cultural relationship of sport to society and the importance of sport to the development of self and a community identity. Special emphasis on the structure, function, and meanings of rituals surrounding sports at the University of Alabama.

SOC301 Social Statistics
Hours 3
Elementary statistical techniques applied to sociological data; tables and graphs, central tendency and dispersion, probability and sampling, tests of significance, and measures of association.

Prerequisite(s): SOC 101 and MATH 110 or MATH 112 or MATH 125

SOC302 Sociological Theory
Hours 3
The course will provide a review of the major systems of thought about society. Special emphasis is given to historical context and philosophical background as they relate to the development of sociological theories. Students will be introduced to viewpoints and ideas about how society functions, the role of conflict in society and the forces of social change.

Prerequisite(s): SOC 101

SOC305 Food, Culture, and Society
Hours 3
Food is examined as a social construction - what we do (and don't) eat, how we eat, and the rituals surrounding food production & consumption. Covering such topics as cultural distinctions and perspectives, federal regulations and subsidies, food-related diseases, and sustainable agriculture.

Prerequisite(s): SOC 101

SOC310 Social Movements and Collective Behavior
Hours 3
This course analyzes social movements: more or less organized attempts by relatively powerless groups to change politics or society. Begins with the building blocks of collective behavior, with a general focus on attempts to push social change in the US and globally.

Prerequisite(s): SOC 101

SOC315 Race And Ethnic Relations
Hours 3
Analysis of American social structure, race and ethnic relations, and demographic and institutional trends; studies of racial and ethnic issues.

Prerequisite(s): SOC 101

SOC352 Social Inequality
Hours 3
Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

Prerequisite(s): SOC 101

SOC360 Sociology of HIV/AIDS
W
Hours 3
Study of the social dimensions of HIV/AIDS. Discussions cover how HIV/AIDS is socially constructed in terms of gender, sexualities, race/ethnicity and social class. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): SOC 101

Writing

SOC390 Selected Topics In Soc
Hours 3
The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; Latin American life; small-group dynamics; environmental sociology; medical sociology.

Prerequisite(s): SOC 101
SOC404 Health and Society  
Hours 3  
The health consequences of social deviance and the impact of criminalization for individual and societal wellbeing. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.  
Prerequisite(s): SOC 101  

SOC405 Gender & Society  
Hours 3  
A sociological approach to the study of women & men, focusing on: the social construction of genders in institutions and in everyday life, feminist theories of masculinity, gender inequality, and social change.  
Prerequisite(s): SOC 101  

SOC406 Organizational Failures and Disasters  
Hours 3  
This course examines such organizational failures and disasters from a variety of professional fields as way to understand how organizational life influences people’s behavior, thinking, decision-making, and moral judgment. The course covers the nature of organizations, what failures and disasters reveal about the nature of knowledge and the limits of human intervention in the world, and the lessons that can be learned from failures and disasters.  
Prerequisite(s): SOC 101  

SOC444 Environmental Sociology  
W  
Hours 3  
Sociological analysis of environmental issues including the background of environmental issues, population, planning, limits to growth, food and energy resources, and social impacts of environmental alterations. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): SOC 101  
Writing  

SOC450 Sociology Of Law  
W  
Hours 3  
Study of social origin and consequences of law and legal process; analysis of social factors that determine legal outcomes.  
Prerequisite(s): SOC 101  
Writing  

SOC460 Body Politics  
W  
Hours 3  
Study of how human bodies are politicized in modern society. Discussions cover how the human body is politically constructed according to gender, race/ethnicity, occupation and social class. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): SOC 101  
Writing  

SOC471 Medical Sociology  
W  
Hours 3  
This course addresses topical issues relating to health, medicine, and society. The course will cover four fundamental points: how society shapes individual understandings of what it means to be healthy, how people behave when they are ill, how society produces differential patterns of health and illness, and how medicine is practiced in the United States.  
Prerequisite(s): Sociology 101  
Writing  

SOC480 Death and Dying  
Hours 3  
This course examines death and dying from a sociological perspective. In contrast to clinicians (who view dying as a biological/physiological process), or psychologists and/or social workers (who manage grief and loss) we will examine death as a social process that varies by culture, context and historical moment. Our focus will be on the social organization of death itself, with emphasis placed on micro-interactional roles and norms as well as macro-structural organizational and institutional dimensions of death and dying.  
Prerequisite(s): SOC 101  

SOC490 Seminar In Sociology  
Hours 1-3  
Examination of selected problems and issues in sociology. A maximum of 12 hours may be used toward the minor.  
Prerequisite(s): SOC 101  

SOC499 Ind Study in Sociology  
Hours 1-6  
1-6 hour independent study course allowing students to conduct sociological research under faculty supervision.  
Prerequisite(s): SOC 101  

SP101 Introductory Spanish I  
FL, HU  
Hours 4  
This is an introductory course to the Spanish language and Hispanic culture. Part of a two-course sequence, SP 101 and SP 102 are designed to develop: (i) basic communicative skills in Spanish as a foreign language; and (ii) general knowledge about culture in the Spanish-speaking world. Students should not expect this course to be just about memorization of grammar and vocabulary. Although these aspects are necessary to achieve the aforementioned skills and knowledge, they are not the sole focus of this course.  
Foreign Language, Humanities
SP102 Introductory Spanish II  
**FL, HU**

Hours 4

This is an introductory course to the Spanish language and Hispanic culture. Part of a two-course sequence, SP 101 and SP 102 are designed to develop: (i) basic communicative skills in Spanish as a foreign language; and (ii) general knowledge about culture in the Spanish-speaking world. Students should not expect this course to be just about memorization of grammar and vocabulary. Although these aspects are necessary to achieve the aforementioned skills and knowledge, they are not the sole focus of this course.

Prerequisite(s): SP 101 with a grade of C- or better

Foreign Language, Humanities

SP103 Intensive Review Intro Spanish  
**FL, HU**

Hours 4

Five hours of instruction per week. Intensive review and accelerated study of Spanish language at the first- and second-semester college level. Conducted in Spanish. Offered each year.

Foreign Language, Humanities

SP104 Spanish for Engineering  
**FL, HU**

Hours 6

SP 104/105 for Engineering is an introductory sequence to the Spanish language and culture as it bears on both the basics and engineering. As a skills-development sequence, it will require students to learn, practice, and apply knowledge and abilities in a way that is different from most other university courses. Practice outside the class and pre-class preparation will be essential for successful completion of this course. Each class is worth three credit hours. This course sequence is only offered in Spain.

Foreign Language, Humanities

SP202 Intermediate Spanish  
**HU**

Hours 3

This is an intermediate course to the Spanish language and Hispanic culture. Part of a two-course sequence, SP 201 and SP 202 are designed to develop: (i) continued communicative skills in Spanish as a second language; and (ii) additional knowledge about culture in the Spanish-speaking world. Do not expect this course to be just about memorization of grammar and vocabulary. Although these aspects are necessary to achieve the aforementioned skills and knowledge, they are not the sole focus of this course.

Prerequisite(s): SP 201 or placement

Humanities

SP205 Spanish House I  
Hours 1.5

One-Semester residence in Spanish House. 1.5 crs.

Prerequisite(s): Must have faculty director's permission.

SP206 Spanish House II  
Hours 1.5

One-semester residence in Spanish house for 1.5hrs.

Prerequisite(s): pre-req must have faculty director's permission

SP305 Spanish House III  
Hours 1.5

Spanish 305 is an advanced conversation/immersion course designed for students who want to improve their communicative abilities in Spanish. A variety of cultural texts will be the base for our activities. This course combines a content-based language instruction with an interactive task-based approach. Students will be expected to participate actively in a variety of interactive small and large group activities. These activities are designed to improve conversational skills and practical knowledge about culture and language. They may include: dialogues, conversations, interviews, film reviews, group discussions and presentations. Participation in these activities will require use of Spanish in various situations that reflect normal use of different varieties of the language. The course will be conducted in Spanish.

Prerequisite(s): Must have faculty director's permission.

SP306 Spanish House IV  
Hours 1.5

Spanish 306 is an advanced conversation/immersion course designed for students who want to improve their communicative abilities in Spanish. A variety of cultural texts will be the base for our activities. This course combines a content-based language instruction with an interactive task-based approach. Students will be expected to participate actively in a variety of interactive small and large group activities. These activities are designed to improve conversational skills and practical knowledge about culture and language. They may include: dialogues, conversations, interviews, film reviews, group discussions and presentations. Participation in these activities will require use of different varieties of the language. The course will be conducted in Spanish.

Prerequisite(s): Must have faculty director's permission.
SP352 Spanish Conversation
Hours 3
No description available

SP353 Spanish Conversation
Hours 3
The course is also offered in Spain as SP 352; it is not open to native and heritage speakers. Offered each semester. This is a required course for majors/minors.
Prerequisite(s): SP 202 or placement.

SP354 Adv Grammar & Composition
Hours 3
No description available

SP355 Spanish for Native and Heritage Speakers
Hours 3
Advanced Spanish course designed for students of Hispanic background, who are either native speakers or heritage speakers of Spanish and want to improve their formal knowledge of the language.
Prerequisite(s): Only for native or heritage speakers of Spanish. Must interview with professor.

SP356 Advanced Grammar And Composition
Hours 3
The course is also offered in Spain as SP 354. Review of Spanish grammar with emphasis on written expression in Spanish. This is a required course for majors/minors. Offered each semester.
Prerequisite(s): SP 202 or placement.

SP360 Commercial Spanish
Hours 3
Spanish business vocabulary and practices. Offered in the spring semester.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP361 Intro Romance Linguistic
Hours 3
Credit for this course is not applicable toward the requirements of the Spanish major or minor.

SP362 Spanish for Healthcare Professionals
Hours 3
This course is designed to build fluency in both spoken and written Spanish that will enable the healthcare professional to communicate more effectively with a patient. The course emphasizes vocabulary acquisition and cultural nuances. In addition, along with a grammar review, students will work on improving their self expression in order to master the communication skills necessary in a healthcare profession.
Prerequisite(s): SP353 SP356

SP364 Spanish Civilization
Hours 3
The course is also offered in Spain as SP 363. Study of Spanish artistic heritage and social and political institutions. Offered in the fall semester.
Prerequisite(s): SP 353 and SP 356

SP366 Spanish-American Civilization
Hours 3
Study of the development of Spanish-American civilization from pre-Columbian times to the present. Offered in the spring semester.
Prerequisite(s): SP 353 and SP 356

SP367 Technical Writing
Hours 3
This course will teach students how to understand and write documents in technical areas usually not taught in conventional language courses. Emphasis on written expression. Students will practice and improve knowledge of Spanish grammar and syntax.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor.

SP371 Survey of Spanish Literature
W
Hours 3
SP371 is designed to explore Spanish literature from the Middle Ages until the 18th century. This course offers a panoramic view of the main styles and discourses that characterize the evolution of Spain's culture. Class debates will be the main interaction method during this course. Students' reading and writing skills will be reinforced and worked on, particularly as it pertains to critical thinking and writing. Given this course's "W" designation, writing proficiency within this discipline is required for a passing grade in this course. Written assignments will require coherent, logical and carefully edited prose. These assignments will also require students to demonstrate higher-level critical thinking skills, such as analysis and synthesis. A student who does not write with the skill normally required of an upper division student in this discipline will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): SP 353 SP 356 SP 364 or SP 366 or placement test

SP372 Survey of Spanish Literature
W
Hours 3
This course examines 18th to 21st century Peninsular Literature and Culture. Throughout the semester, we will read and study a wide corpus of representative authors, genres, and literary movements from this time period. Writing proficiency within this discipline is required for a passing grade in this course. Written assignments require coherent, logical, and carefully edited prose. These assignments should require students to demonstrate higher-level critical thinking skills, such as analysis and synthesis. A student who does not write with the skill normally required of an upper division student in Spanish will not earn a passing grade in the course.
Prerequisite(s): SP 353 SP 356 SP 364

Writing

SP375 Masterpc Sp-Amer Lit I
Hours 3
Study of selected great works in the development of Spanish-American literature from the colonial period to modernism. Offered in fall semester.
Prerequisite(s): SP 353, SP 356, and SP 366 (or SP 364); or permission of the instructor.
SP376 Masterpc Sp-Amer Lit II

W

Hours 3

In this course, we will discuss the importance of literature in developing ideas about Latin American citizenship and identities during the late 19th, 20th and early 21st centuries. By reading and studying some of the most canonical Spanish American works from different literary genres and regions, you will become familiar with issues Latin Americans have faced over the course of these centuries, such as race, gender, tradition, violence, migration, and various ideals. In its content and format, this course fosters your critical thinking through written and oral communication, which you will practice through the contextual as well as textual analysis of the representative works chosen for this course. To this end, we will devote most class time to discussion and analytical activities, and all evaluations will focus on these skills. This is a Writing Class (W designation). Writing proficiency within the discipline is required for a passing grade in this course.

Prerequisite(s): SP 353 and SP 356, and either SP 366 or SP 364

Writing

SP377 Introduction to US Latino literatures and cultures

W

Hours 3

The purpose of the course is to present a body of works that are essential in the establishment and development of the literature written by Hispanics in the US. Although the main element in the course is the study of US Latino texts of different genres (essay, drama, poetry and fiction), we will also pay attention to socio-historical aspects that are instrumental in contextualizing the literary text. This is a Writing Course; therefore, writing proficiency within this discipline is required for a passing grade in this course. The student’s writing will be graded and commented upon and become part of the assigned grade. A student who does not write with the skill normally required of an upper division student in the discipline will not be given a passing grade, no matter how well the student performs other course requirements.

Prerequisite(s): SP 353 SP 356 SP 366 (or SP 364)

Writing

SP389 Spanish Outreach

Hours 3

The Spanish Outreach Program is a unique service learning class that seeks to place Spanish majors and minors as semester interns in local schools where they will assist our younger members of society with individual tutoring, comprehension of lesson, personal dialogue, interpretation, and other language based tasks. At the same time the UA “Outreachers” can hone their linguistic skills while they serve the Tuscaloosa-Northport community.

Prerequisite(s): SP353 SP356 Must be a major or minor in Spanish Minimum GPA of 3.0 Must interview with Program Director

SP390 Special Topics

Hours 1-6

Special studies on topics related to Spanish language, literature, and culture. The content of the course varies from semester to semester. A maximum of 6 credit hours may be earned in SP 390.

Prerequisite(s): SP 353 and SP 356; and (SP 364 or SP 366)
SP489 Open Topics Sp-Amer Lit
Hours 3
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, or US Latino literature.

SP490 Open Topics
Hours 1-6
Topics vary, and the course may be repeated for credit. Offered according to demand.
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376, SP 377.

SP491 Cervantes
W
Hours 3
SP 491 is designed to allow students to familiarize themselves with Cervantes' writing by reading both parts of his famous masterpiece – Don Quijote (Part 1 published in 1605, Part 2 in 1615). Although this course will show students a variety of the main critical approaches to Cervantes' novel, our focus will not be solely on reading what other critics have said about Don Quijote, but on allowing each student to develop their own interpretation of the work. Given this course's "W" designation, writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): SP 353 and SP 356, AND two of the following: SP 371, SP 372, SP 375, SP 376, or SP 377.

Writing

SP492 Spanish in the US
Hours 3
This course is designed to reflect the current linguistic situation of Spanish-speakers in the US, either born in this country, or abroad, and hailing from all countries where Spanish is spoken. This course will examine the different linguistic histories of those who live with two (or three) languages.
Prerequisite(s): SP 353 and SP 356 or permission of the instructor

SS121 Intro To Social Sciences
SB
Hours 3
An introduction to the social sciences, organized into modules taught by professors from different social science disciplines. Topics may include anthropology, sociology, criminal justice, psychology, history, economics, and political science.

Social and Behavioral Sciences

SWA101 Elementary Swahili
FL
Hours 3
Contemporary Swahili: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a “language trainer” who is a native/near native (or superior level) speaker of the language. Native or near-native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 101

Foreign Language

SWA201 Intermediate Swahili I
Hours 3
Continuation of Swahili language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102

SWA202 Intermediate Swahili II
Hours 3
Continuation of SWA 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.
Prerequisite(s): SWA 102

TH113 Voice And Diction
Hours 3
Credit for this course will not be awarded to students majoring or minoring in theatre. A beginning course designed to assist the student in improving use of his or her voice and speech. Offered annually and in the summer session.

TH114 Intro To The Theatre
FA
Hours 3
Introduction to the theatre through the study of plays, stage histories, practitioners, elements of theatre and production techniques.

Fine Arts
TH115 Beginning Acting
Hours 3
Credit for this course will not be awarded to students majoring or minoring in theatre. Training in the basic elements of the actor’s craft. Additional hours in related theatre activities may be required.

TH120 Principles Of Stage Design
FA
Hours 3
An introduction to the various areas of theatrical design and technology, including but not limited to scenery, costumes, lighting, sound, and makeup.

Fine Arts

TH141 Acting I
Hours 3
The course is designed to introduce the beginning student to the art and craft of acting.
Prerequisite(s): This class is open to Theatre Majors and Minor

TH165 Musicianship Theatre Perform I
Hours 3
A course in basic musical theatre skills, including sight-singing, playing keyboard instruments, singing in harmony, phonetic transcription, and audition techniques.

TH166 Musicianship Theatre Perf II
Hours 3
A continuation of TH 165, featuring more advanced work in sight-singing, keyboard, ensemble singing, and audition techniques. May be repeated for a maximum of 6 hours.
Prerequisite(s): TH 165

TH175 The Singing Voice
Hours 2
The class is designed to introduce students to basic concepts of vocal technique and musicianship through practical application.

TH191 Introduction to Practicum
Hours 1
This course provides for participation in productions with The University of Alabama’s Department of Theatre and Dance. Participation typically will be in the form of working on show crews, working in the shops, or working in the box office.

TH220 Fundamentals of Stagecraft
Hours 3
A survey of the techniques and materials for building, rigging, and painting scenery for varied forms of theatre production. Emphasis is on the standard techniques for the legitimate stage. Introduction to stage lighting and sound is also included. REQUIRED LAB.

TH230 Stage Makeup
Hours 2
Required lab. Principles of and practical work in all types of stage makeup.

TH231 Beginning Costume Construction
Hours 3
A studio course in basic patterning, cutting, and construction techniques. Additional hours in related theatre activities may be required.

TH233 Beginning Costume Design
Hours 3
An introductory course implementing the principles of design as related to costumes.
Prerequisite(s): TH 120

TH240 Beginning Movement
Hours 3
A beginning course in movement for the actor and development of the physical instrument for performance.

TH242 Acting II Intro to Scene Stud
Hours 3
Majors-only advanced acting course. An in depth study of various techniques used to explore an acting scene in performance: advanced personalization, intense experiential analysis of emotional and intellectual transitions in a text, and specific physical and musical improvisations, which combine to form the basis of a “Simulated Experience” of the character. Students will explore works from the Realistic Period as well as modern texts, in order to develop a personal technique applicable to any material the actor might encounter, both classical and contemporary.
Prerequisite(s): TH 141

TH245 Tch Theatre: Performance
Hours 3
Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include acting, directing, choosing plays for production, and rehearsal techniques.

TH291 Practicum I
Hours 1
Participation in University Theatre productions through a rotation of assignments in the scene shop, costume shop, box office, and show crews.
Prerequisite(s): TH 191

TH322 Fund Of Stage Lighting
Hours 3
Required lab. Survey of materials and techniques employed in executing stage lighting for both the legitimate stage and television.
Prerequisite(s): TH 120 or TH 220

TH324 Lighting and Sound for Dance
Hours 3
A technical production course specifically for dance majors covering the practical aspects of theatre technology.

TH361 Beginning Directing
Hours 3
Study of the principles and techniques of directing plays. Additional hours of related theatre activities are required.
Prerequisite(s): TH 141 and TH 120 or TH 220
TH365 Stage Management  
Hours 3  
The study of the professional stage manager’s process: preparing and running rehearsal and performance, conflict resolution, and general responsibilities as defined by Actor’s Equity Association. Required production element outside of class.
Prerequisite(s): TH 141 and TH 120 or TH 220

TH375 The Singing Voice - Intermediate  
Hours 2  
This class is designed to further students’ understanding of basic concepts of vocal technique and musicianship through practical application. Students will discuss various topics related to singing and will further explore those topics through performance. Students will give four solo performances over the course of the semester per the schedule listed below.
Prerequisite(s): TH 175

TH391 Practicum II  
Hours 1  
Participation in University Theatre productions through a rotation of assignments in the scene shop, costume shop, box office, and show crews.
Prerequisite(s): TH 291

TH415 Properties Construction  
Hours 3  
A studio course introducing the multitude of techniques used by the props artisan to create hand props, furniture, and other set dressings.
Prerequisite(s): TH 120 or TH 220

TH416 Rigging Fundamentals for Theatre  
Hours 3  
This course covers the theories and analysis of rigging systems, their design and engineering as well as practical implementation and operation. This course is intended for the student that already has been exposed to standard theatrical production concepts and methodologies. Furthermore, a large portion of the subject matter of the class deals in scientific theory and computations so competency in basic mathematics, algebra, and basic physics are essential.
Prerequisite(s): TH 220

TH419 Electricity and Electronics for the Stage  
Hours 3  
This course provides study and studio work in aspects of electricity and electronics with reference to understanding, usage, and design of systems for theatrical production. This course will cover the essential concepts of electrical theory for both AC and DC systems. The student will not only be exposed to theory, but will also have hands-on experience. As a large portion of the subject matter of the class deals in scientific theory and computations, competency in basic mathematics and algebra is essential.
Prerequisite(s): TH 220 or Instructor Approval

TH420 Technical Direction  
Hours 3  
This course will provide students with an overview of the technical design, construction techniques, and the administrative and management functions that are a part of the field of technical direction.
Prerequisite(s): TH 220 and TH 423

TH421 Period Decor  
Hours 3  
A survey of period architecture, art, and decorations as they apply in research for theatrical design and productions.
Prerequisite(s): TH 120 or TH 220

TH422 Scene Design  
Hours 3  
A studio course exploring the process and techniques of scene design. Students will design about ten projects from three to five plays.
Prerequisite(s): TH 120 or TH 220 or TH 423

TH423 Drafting For Theatre  
Hours 3  
A studio course concentrating on traditional technical drafting techniques as applied to the theatre. Skills learned will include orthographic and isometric projections, ground plans, sections, perspective drawing, and layout.
Prerequisite(s): TH 120 or TH 220

TH424 Adv Scene Design  
Hours 3  
A studio course in drafting, drawing, and painting techniques for the stage designer.
Prerequisite(s): TH 120 or TH 220

TH425 Scene Painting  
Hours 3  
A studio course in the materials and techniques for painting and creating surfaces for stage scenery. A materials fee of $35 is required.
Prerequisite(s): TH 120 or TH 220

TH426 Sound Design  
Hours 3  
The course provides the student with a working knowledge of theatrical sound design. It emphasizes the creation of sound files for theatre and dance, and the techniques for professional sound design communication.

TH427 Computer Drafting For Theatre  
Hours 3  
A studio course exploring the creation of technical drawings through Computer Aided Drafting. Skills learned will include commands for drawing, layout of information, and other CAD techniques.
Prerequisite(s): TH 120 or TH 220
TH428 Beginning Lighting Design
Hours 3
Lecture, discussion, and projects, training in theatrical lighting design. Provide the undergraduate level design & technical student an in-depth understanding of the design methods of stage lighting, including lighting analysis; generation of paperwork; calculation of field angles; prediction of color effects; assembly of a complete design from concept to technical rehearsal; and a thorough understanding of stage lighting science, terminology, aesthetics, and professionalism.
Prerequisite(s): TH 322

TH432 Costume Constructn II
Hours 3
A studio course in advanced costume construction techniques and/or costume crafts. Topics may include tailoring, corsetry, millinery, armor, wigs, masks, and jewelry. May be repeated for credit.

TH433 Costume Design I
Hours 3
A studio course in costume design, principles, and presentation.
Prerequisite(s): TH 120

TH434 Costume Design II
Hours 3
Continued, advanced study of the material in TH 433. Projects address specific problems in design.
Prerequisite(s): TH 433

TH435 Presentation for Designers
Hours 3
Preparation of "hard," digital and web-based portfolio presentations. Also included is information on presentation in a professional setting, such as a job interview or adjudication.

TH436 Fabric Modification
Hours 3
Course Description: This course explores and introduces a variety of techniques in which to modify the original appearance and/or intent of fibres and fabrics. This is done through the use of various dyes/techniques, surface treatment, use of non-traditional materials and restructuring of fabrics.

TH437 Drawing for Stage Designs
Hours 3
This course is designed to teach students in stage design all aspects of drawing and rendering. Students will explore different types of media in which to color the drawings as well as how to render specific types of fabrics. Drawing exercises will focus on live models with and without period garments and elements of stage settings. May be repeated for a maximum of 9 hours.

TH439 Advanced Stage Makeup
Hours 3
A studio course using a variety of materials in the art of mask making, hair ventilating, and prosthetics.
Prerequisite(s): TH 230

TH440 Stage Movement III
Hours 3
Advanced theory and practice of specific stage movement, such as Alexander Technique, Developmental Movement, Grotowski, clowning, Mask, Stage Combat, Mime, and Stage Combat, Laban Movement Analysis, Devised Movement. Techniques alternate in successive semesters. May be repeated for a maximum of 6 hours for differing topics.

TH441 Acting III: Advanced Scene Study
Hours 3
Thorough exploration of character study, script analysis, and scene work for the actor. Offered in alternate years. This course is repeatable up-to 6 credit hours.
Prerequisite(s): TH 242, or permission of the instructor

TH442 Careers In Prof Theatre
Hours 3
The course focuses on audition and interview techniques for stage and screen, unions, resume writing, identification of type and market, and other skills required to apply for positions in the academic and professional theatre.
Prerequisite(s): TH 441 and permission of the instructor

TH444 Acting 4: Comedy and Film
Hours 3
Study and practice of acting styles from 1900 to the present, concentrating on classical comedy, high comedy, situation comedy and acting for the camera.
Prerequisite(s): TH 242 and TH 441

TH445 Acting 5: Acting Shakespeare
Hours 3
Study and practice of acting in verse drama, concentrating on the particular demands of Shakespeare's works.
Prerequisite(s): TH 242 and TH 441

TH446 Adv Voice Speech Perform
Hours 3
Intensive exercises and practice in the healthy use of voice and speech for performers. This course is repeatable up-to 6 hours, and is also offered as Interim Intensive. The course will include an introduction to Fitzmaurice Voicework, Archetypes for Actor, along with articulation and text work to develop the vocal skills of the actor.
Prerequisite(s): TH 141 or Permission of the Instructor

TH447 Stage Dialects
Hours 3
Study of stage dialects for the performer. Offered in alternate years. This course is repeatable up-to 6 hours.
Prerequisite(s): TH 446, or permission of the instructor

TH448 Rehearsal Process
Hours 3
In this acting course, students analyze and participate in the rehearsal process of both unpublished and published scripts.
Prerequisite(s): TH 441
TH451 Hist Of The Theatre I
W
Hours 3
Covers the period from western theatre’s beginnings to the 18th century. This course is restricted to Seniors or by permission of the Instructor.
Prerequisite(s): TH 120 or TH 220

Write

TH452 History Of The Theatre II
W
Hours 3
Covers the period in western theatre from late 18th century Romanticism to the current 21st century theatre. This course is restricted to seniors, or by permission of the Instructor.
Prerequisite(s): TH 120 or TH 220

Write

TH458 American Feminist Theatre
Hours 3
Survey of dramas, performances, criticism and theory since 1900 in American Theatre. Offered every three years.
Prerequisite(s): TH 120 and TH 220

TH461 Advanced Directing
Hours 3
Through class discussions and presentations of various styles, theories and approaches to the craft and art of directing, students will apply new ideas and concepts in a practical, hands-on studio setting. This studio work will be augmented with the direction of a short one-act play or extended scene with minimal, “bare-bones” production value at the end of the semester.
Prerequisite(s): TH 120 or TH 220 or equivalent TH 361

TH465 Musical Theatre Performance I
Hours 3
A course in musical theatre scene study, in which acting, singing, and movement skills are blended in the performance of songs and scenes.
Prerequisite(s): TH 166

TH466 Musical Theatre Performance II
Hours 3
A special topics course exploring such areas as musical theatre history, cabaret performance, in-depth study of a single work, etc.
Prerequisite(s): TH 465

TH467 Musical Theatre Repertoire Coac
Hours 0.5-2
Individual coaching in musical repertoire, musical and dramatic performance techniques, and skills crucial to learning and rehearsing new material.
Prerequisite(s): TH 166 and THMT 174, TH 174, or MUA 174.

TH470 Theatre Management
Hours 3
This course will provide students with an overview of the administrative and management functions in the not-for-profit organizations, and the commercial theatre industry.
Prerequisite(s): TH 120 or TH 220

TH482 Playwriting I
Hours 3
The course introduces the fundamentals of writing for the stage. Practical instruction in playwriting includes an opportunity to write a one-act play. This course is offered in alternate years.
Prerequisite(s): TH 120 or TH 220

TH483 Playwriting II
Hours 3
An advanced course in playwriting concentrating on full-length play forms, draft revisions, and the script development process. Offered in alternate years.
Prerequisite(s): TH 120 and 220 or by permission of the instructor

TH491 Practicum III
Hours 1
Advanced participation in University Theatre production through design/leadership assignments in scenery, lighting, properties, sound, costuming, publicity, and other areas.
Prerequisite(s): TH 391

TH495 Senior Project (Capstone Experience in Theatre)
Hours 3
The Senior Project is a culminating course designed for BFA majors at the University of Alabama that demonstrates the student’s growth in their particular area of study (acting, musical theatre, design/technical production). Each student will present a final project in the area of scholarly research or performance/design work within a production (undertaken at some point in their training) that reflects advanced understanding of their chosen topic and accumulated experience. The supervisor of the particular area of study determines the most appropriate format for the student’s project. This course fulfills the capstone requirement for the department’s core curriculum. A written proposal must be submitted to supervising faculty for approval by the end of the semester preceding the final semester.
Prerequisite(s): Permission from faculty supervisor or department head.

TH499 Independent Study
Hours 1-4
No description available
THAI101 Elementary Thai

Hours 3

Contemporary Thai: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week (or equivalent) with a "language trainer" who is a native/near native (or superior/advanced level) speaker of the language. Native or near native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission BEFORE registering. Not repeatable.

Foreign Language

THAI102 Elementary Thai

Hours 3

Contemporary Thai: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a "language trainer" who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

Prerequisite(s): THAI 101

THMT474 Senior MTVoice

Hours 1-2

Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

Prerequisite(s): THMT 374 or TH 374

THMT475 Senior Musical Theatre Voice (5th Year)

Hours 1-2

Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

Prerequisite(s): Permission of instructor.

TURK101 Elementary Turkish

Hours 3

Contemporary Turkish: speaking, reading, and writing. Course involves directed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a "language trainer" who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director. Offered each semester.

Prerequisite(s): TURK 101

TURMT174 Freshman Musical Theatre Voice

Hours 1-2

Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

Prerequisite(s): Acceptance into the Musical Theatre Program, by audition only.

TURMT274 Sophomore MTVoice

Hours 1-2

Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

Prerequisite(s): THMT 174 or TH 174

TURMT374 Junior Musical Theatre Voice

Hours 1-2

Private Instruction. This class is designed to work on vocal technique, including but not limited to, breathing, resonance, coordination of vocal registers, and musical theatre repertoire.

Prerequisite(s): Permission of the instructor or THMT 274.
VIET101 Elementary Vietnamese

*FL*

Hours 3

Contemporary Vietnamese: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a "language trainer" who is a native/near native (or superior level) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director for permission before registering. Not repeatable without permission of the CLC director.

Foreign Language

VIET102 Elementary Vietnamese

*FL*

Hours 3

Contemporary Vietnamese: speaking, reading, and writing. Course involves directed-self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a "language trainer" who is a native/near native/superior-level speaker of the language. Not repeatable without permission of the CLC director.

Foreign Language

WS200 Intro To Women Studies

*HU*

Hours 3

An interdisciplinary course examining the roles of women in patriarchal society, with emphasis on how factors such as race, class, gender, and sexuality contribute to the oppression of women and ways they can be challenged through feminist critical practices.

Humanities

WS205 Women's Autobiographies

Hours 3

Through an examination of women’s autobiographical writings, the roles women have assumed in different cultures and periods are considered. Analytical techniques from the study of art, literature and psychology are used to discover issues inherent in women’s experiences.

WS220 Mothers And Daughters

Hours 3

Investigation of the institution of motherhood, the forces shaping it, and the significance of mother-daughter relationships.

WS310 Special Topics

Hours 3

Changing topics: for example, women and work, women in the world, social inequality.

WS329 Social Movements through Social Media

*Hours 3*

This course explores contemporary U.S social movements around gender and racial justice through the lens of social media activism. The multifaceted online forums that activists have at their disposal today marks a significant break with the past and yet, "using" the media has long been a central tactic for many U.S. justice movements of the late 20th century. Students will be guided through data collection exercises and discursive analysis of the information gathered in order to interrogate the knowledge produced by select social movements through their use of social media overtime. Employing theoretical, historical, and ethnographic arguments at the center of feminist and anti-racist struggles, students will explore the opportunities and constraints of relying on social media and its particular import for what the academy refers to as a "public intellectualism.".

WS340 Women And Law

*Hours 3*

This seminar’s major focus is the impact of law on the status and lives of women.

WS342 Women in the South

*W*

Hours 3

Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women’s lives. Texts include historical studies, autobiographies, biographies, oral histories and novels written by and about women in the 19th and 20th -century South. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

WS352 Social Inequality

*Hours 3*

Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

WS410 Essential Readings & Writings in Women's Studies

*W*

Hours 3

This course explores texts and themes central to the interdisciplinary field of Women's and Gender Studies. Course texts may include theoretical, expository, autobiographical, and fictional writings from early feminism as well as contemporary selections. Writing proficiency is required for a passing grade in this course.

Writing
WS420 Women On Screen
Hours 3
This course wrestles with concerns and key debates that surround the place of women in film and television and the questions that gender studies raises about representation, consumption, authorship, and spectatoriality. To enter these debates, we will examine the role of women both in front of and behind the camera predominantly through U.S. media history, although notable developments in global cinema (particularly in terms of female directing) will be addressed. While film history and criticism will be the backdrop for course discussions, the main objective is to consider more broadly how women have acted as consumers and viewers of popular media including television, how they have been portrayed in mainstream U.S. culture, and how they have created their own representations of gendered experience. Particular attention will be paid to how other identities such as those based in race, class, sexuality, and age have intersected with gender to inform both consumers and creators of visual media.

WS425 Monsters in Popular Culture
Hours 3
This interdisciplinary seminar will critically engage with the concept of the monstrous "Other" from the perspectives of gender and race studies. Examining a variety of texts—from films, television, and works of literature to police reports, psychology texts, and medieval manuscripts—this course will explore how the monster has been constructed historically and culturally as a defining opposition, the Other against which the dominant or privileged defines itself. What lies outside of, what must be expelled from, what needs to be repressed in dominant culture is figured in or inconveniently rises up as the "monster." He/she both haunts and polices the boundaries of normative sexuality, the gender binary, and racial privilege. In this course, we will read critical, historical, and theoretical material as a lens through which to critique primary texts, or what one might call our monstrous examples (from American Horror Story to Edgar Allen Poe’s "The Fall of the House of Usher"). As a seminar, this highly interactive course enables students to critically engage with content in responsible ways and is designed to explore interdisciplinary approaches to a particular issue, theme, or problem. Within this format, students can expect a reading- and discussion-intensive course with opportunities for self-directed inquiry as well as collaborative work.

WS430 Contemporary Issues: Feminist Theory
W
Hours 3
Through the study of key feminist political and theoretical texts on an issue central to contemporary feminism, students in this seminar will develop advanced undergraduate research skills and gain a substantial foundation for further study, including graduate work in this area. Writing proficiency is required for completing this course.
Prerequisite(s): WS 200 or permission from the instructor.

Writing

WS435 Black Feminism
Hours 3
This upper level undergraduate and graduate course exposes students to the key figures, texts and concepts that constitute black feminist thought.
Prerequisite(s): AAST 201 or WS 200

WS440 Seminar in Women's Studies
W
Hours 3-9
Courses under this rubric are designed to investigate a particular subject supplemental to regular course offerings. Students in this senior seminar will develop advanced undergraduate research skills and gain a substantial foundation for further study, including graduate work in this area. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): WS 200 or permission of the instructor.

Writing

WS442 Writings in Women's Studies
Hours 3
This course will provide students with a writing course in topics important to contemporary feminist theory. Among the topics will be a study of classical texts, such as Antigone, for gender politics, the development of student training in areas of feminist analysis from within the fields of natural science, political science, English, anthropology, rhetoric, art, economics, and American Studies. Demonstrated writing proficiency is a requirement for successful completion of the course. Students will complete at a minimum 5 short papers of from 1-3 pages each, essays derived from course readings and topical assignments, as well as a longer paper of from 7-10 pages. Instructor assessment of student writing and constant feedback is an important part of the course, and students will be asked to develop their own writing through in class assignments as well. Students will read a considerable amount of material in feminist analysis, comment upon this, and engage in classroom discussions on a regular basis.
Prerequisite(s): None

WS450 Independent Study in Women's Studies
Hours 1-6
Independent study on any subject pertaining to Women's and Gender Studies conducted under the supervision of a professor in the chosen field.
Prerequisite(s): Permission of the supervisor and arrangement in advance of the semester in which enrollment is planned.

WS452 Contemporary Women's Studies
Hours 3
What is the "essence" of Women's Studies? Is it feminist? What does it mean for a text to be identified as "essential" to the field of Women's and Gender Studies, an interdisciplinary field? This course considers these and other questions as it locates key texts and themes that are, among many, "essential" to the field of Women's and Gender Studies, as well as central to feminist scholarship across disciplines and to feminist praxis. Course readings include "classic," visionary texts, by authors such as Stephanie Coontz and Barbara Ehrenreich; new and groundbreaking writings by authors such as Jennifer Baumgardner and Angela Davis, as well as literary texts by Margaret Atwood and Octavia Butler. Students will read and reflect on assigned readings, discuss them, write regular responses to them, and prepare three formal essays on the texts and issues central to this course.
**WS470 Gender, Race, and Class**  
**Hours 3**  
Emphasis is placed on theories and research on the intersectionality of gender, race, and class formations in various historical and geographical contexts. Students explore the interactions between forces of discrimination and domination and their manifestations in different sites, as well as the methods by which to defuse and work toward their elimination.  
Prerequisite(s): WS 200 or permission of the instructor.

**Culverhouse College of Business Courses**

**AC148 Introduction to the Accounting Major and Profession**  
**Hours 1**  
AC 148 is open to freshmen and sophomores interested in learning more about the accounting profession and the accounting curriculum in the Culverhouse School of Accountancy. This course will introduce basic terminology and methodology, the accounting curriculum, career and educational resources, and career options.  
Prerequisite(s): None

**AC184 Culverhouse LIFT Student Worker**  
**Hours 1-3**  
This course revolves around participation as a tutor and mentor in The LIFT (Learning Initiative and Financial Training) Program, teaching computer and financial skills to disadvantaged members of the community.  
Prerequisite(s): CS 102, CS 285 and/or required computer training provided by LIFT program, or permission of the instructor.  
Prerequisite(s) with concurrency: CS 102 and CS 285

**AC188 Culverhouse LIFT - Class Leader**  
**Hours 3**  
This course involves participation as a class leader and mentor in The LIFT (Learning Initiative and Financial Training) Program, supervising students and participants in classes involving teaching computer and financial skills to disadvantaged members of the community.  
Prerequisite(s): Permission of the instructor  
Prerequisite(s) with concurrency: CS102, CS285 and/or required computer training provided by LIFT program.

**AC210 Intro To Accounting**  
**Hours 4**  
Introduction to accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions. Students who intend to major in accounting should take AC 289 or CS 285 before or concurrently with AC 210. Students are limited to three attempts for this course, excluding withdrawals.  
Prerequisite(s): EC 110

**AC289 Computer Applications**  
**C**  
**Hours 3**  
Introduction to information technology and computer applications in business. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): CS 102 or CS 114 or RRS 101

**Computer Science**

**AC310 Financial Reporting & Analysis of Business Activities I**  
**Hours 3**  
Promotes technical competency in the accounting process and develops critical thinking, communication, and research skills involving accounting and other business information. By presenting accounting and business consulting issues and requiring the use of technology to solve a typical business entity’s problems, this course exposes students to the professional environment of accounting practice.  
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

**AC311 Financial Reporting & Analysis of Business Activities II**  
**Hours 3**  
Continuation of AC 310.  
Prerequisite(s): AC 310

**AC334 Introduction to Fraud Risk Management**  
**Hours 3**  
This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, detection, and follow-up.  
Prerequisite(s): AC 210

**AC351 Managerial Accounting Decisions**  
**Hours 3**  
Prerequisite(s): AC 210 or AC 201 and AC 202

**AC352 Corporate Financial Reporting**  
**Hours 3**  
Prerequisite(s): AC 210 or AC 201 and AC 202

**AC361 Cost Analysis for Planning & Control**  
**Hours 3**  
A study of the theory and application of accounting for measuring the economic attributes of the firm’s operations. The course examines the measurement, analysis, and interpretation of accounting information for planning and controlling a firm’s business-related activities.  
Prerequisite(s): AC 201 and AC 202; or AC 210
AC371 Introduction To Taxation  
Hours 3  
Introduction to tax policy, planning, practice, and research with an emphasis on income taxation.  
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 210 and AC 210 and LGS 200 and ST 260

AC389 Accounting Information Systems - Development, Operation, and Control  
C  
Hours 3  
Introduction to the operation and development of accounting information systems, e-business applications, networking, and controls. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): AC 289 or CS 285; and AC 310

AC415 Current Issues in the Accounting Profession  
Hours 3  
This course is for accounting students who are returning from a spring internship.

AC432 Intro to Corporate Governance, Risk Assessment, and Assurance Services  
Hours 3  
A risk-oriented study of standards, concepts, procedures, and professional ethics underlying governance and the practice of external and internal auditing and assurance services. The course will focus on mechanisms and activities that enhance the reliability of information for decision making.  
Prerequisite(s): AC 311 and AC 389

AC444 Financial Analysis for Investing  
Hours 3  
Discussion of a common framework for the analysis of general purpose financial statement information. Includes discussions of the accounting process and availability of financial information, selected intermediate and advanced accounting concepts, required disclosures, modeling & valuation implications, and various analytical techniques available to the investment professional.  
Prerequisite(s): AC 210 Intro to Accounting

AC456 Government & Nonprofit Accounting  
Hours 3  
Special features of budgetary and fund accounting are applied to municipalities, other government units, and institutions such as schools and hospitals.  
Prerequisite(s): AC 310

AC471 Taxation of Business Transactions & Organizations  
Hours 3  
Examination of the tax implications of business formations, transactions between the entity and the owners, reorganizations, and liquidations. The course develops tax research skills.  
Prerequisite(s): AC 371
EC389 Computerized Management Information Systems

Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Students may not receive credit for EC 389 and FI 389.

Prerequisite(s): ST 260 or ST 250 and ST 251; and AC 210 and EC 110 and EC 111 and FI 302 or IE 203 or CE 366

Computer Science

EC400 Analysis of Economic Conditions at the Micro & Macro Levels

Not open to majors in economics and finance. Uses basic economic theory to assess real-world business and economic conditions at the micro and macro levels. This course may not count toward the Economics major, but may count toward the Economics minor or specialization.

Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and OM 300 and FI 302

EC410 Law And Economics

Writing

EC412 Industrial Organization

Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.

Prerequisite(s): EC 308

Computer Science

EC413 Economic Forecasting & Analysis

Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): EC 308 and EC 309

EC416 Monetary Theory & Policy

Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.

Prerequisite(s): EC 110 and EC 111

EC422 Urban Economics

Analysis of the economics of community growth and the application of economic principles in solving problems and exploiting opportunities generated by the process of urban development.

Prerequisite(s): EC 110 and EC 111

EC423 Public Finance

Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.

Prerequisite(s): EC 308

EC430 International Trade

Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.

Prerequisite(s): EC 308

EC431 International Finance

Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.

Prerequisite(s): FI 301 or EC 309 or EC 430

EC442 Economic Development of Latin America

A comparative analysis of economic strategies, problems, issues, and policy outcomes with special attention given to Mexico, Costa Rica, Cuba, and Brazil.

Prerequisite(s): EC 110 and EC 111

EC444 Political Economy of Terrorism

Rational actor models applied to the study of terrorism. Empirical examination of the economic impact of terrorism and of the effectiveness of anti-terrorism policies.

Prerequisite(s): EC 308

EC460 Labor Economics

This course provides an overview of labor economics. Topics covered include labor supply, labor demand, human capital, minimum wages, immigration, and discrimination.

Prerequisite(s): EC 308

EC470 Introduction to Mathematical Economics

Application of selected mathematical methods to the analysis of economic problems.

Prerequisite(s): EC 309
EC471 Econometrics
Hours 3
This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.
Prerequisite(s): MATH 121 or MATH 125 or MATH 145; and ST 260 or ST 250 and ST 251; and EC 110 and EC 111

EC473 Games and Decisions
Hours 3
An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.
Prerequisite(s): MATH 121 or MATH 125 with a minimum grade of C-.

EC480 Economics of the Environment and Natural Resources
Hours 3
Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.
Prerequisite(s): EC 308

EC483 Health Care Economics
Hours 3
An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.
Prerequisite(s): EC 308

EC491 Independent Study
Hours 1-6
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): EC 110 and EC 111

EC492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111

EC497 Special Topics in Economics
Hours 1-3
No description available
Prerequisite(s): EC 110 and EC 111

FI302 Business Finance
Hours 3
Study of financial objectives of business enterprise, sources of capital, and financial management of business assets. Emphasis is on establishing a framework for making financing, investing, and dividend decisions. Students are limited to three attempts for this course, excluding withdrawals.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

FI314 Introduction to Investing
Hours 3
No description available

FI331 Principles of Real Estate
Hours 3
Survey of various aspects of real estate business and economics, including marketing, finance, development, law, appraising, etc. FI 331 can be taken concurrently with FI 302.
Prerequisite(s): FI 302 or CE 366 or ME 203
Prerequisite(s) with concurrency: FI 302

FI334 Introduction to Real Estate Property Management
Hours 3
Provides an introduction to the principles of real property management and covers all aspects of the property management process. Students are shown how to maximize the asset value of income-producing real estate for investors/owners through the use of finance, marketing, and management techniques. FI 334 can be taken concurrently with FI 331.
Prerequisite(s): EC 110 and EC 111 and FI 331
Prerequisite(s) with concurrency: FI 331

FI341 Fundamentals of Risk Management & Insurance
Hours 3
Introductory study of life insurance and "personal lines" of property insurance, especially homeowners insurance and auto insurance. Economic environment of insurance and how to read and evaluate insurance contracts. Examines different types of life insurance contracts as well as savings and investment alternatives and their uses in estate planning.
Prerequisite(s): EC 110 and EC 111

FI360 Personal Asset Management
Hours 3
To teach students about financial assets as vehicles for saving for the future. Students will also learn how to invest in a combination of assets to meet their objectives and how their objectives may change over their life span.
FI389 Financial Analysis and Modeling
C
Hours 3
Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

Computer Science

FI400 Financial Institutions, Markets, and Investment
Hours 3
Builds on the foundation laid in the business core to extend the student's knowledge of basic finance into the areas of operation and management of financial institutions and financial markets and investments.
Prerequisite(s): EC 110 and EC 111 and ST 260 or ST 250 and ST 251; and AC 210 and FI 302

FI410 Intermediate Financial Mgt
Hours 3
Development of advanced practices of financial management and their application to decision making in the business firm.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

FI412 Money & Capital Markets
Hours 3
An overall view of the financing process and the role of financial markets. Areas covered are characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

FI414 Investments
Hours 3
Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.
Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

FI415 Advanced Investment Topics
Hours 3
Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.
Prerequisite(s): FI 414

FI416 Monetary Theory & Policy
Hours 3
Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
Prerequisite(s): FI 301

FI417 Value Investing: Principles and Practices
Hours 3
Study of the core principles of value investing as developed in the classic writings of Benjamin Graham and David Dodd.
Prerequisite(s): FI 302

FI419 Financial Derivatives
Hours 3
Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
Prerequisite(s) with concurrency: FI 302 and FI 414

FI421 Bank Administration
Hours 3
Survey of analytical methods in banking, including study of the powers of various government agencies. Emphasis is placed on managerial aspects of commercial banking.
Prerequisite(s): FI 301 and FI 302 or IE 203 or CE 366

FI431 International Finance
Hours 3
Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
Prerequisite(s): FI 301 or EC 309 or EC 430

FI432 Real Estate Appraisal
Hours 3
Study of the sources of real estate value and techniques for estimating property value; study of effective use of appraisal information.
Prerequisite(s): FI 302 or CE 366 or IE 203

FI436 Real Estate Financing
Hours 3
Study of the institutions of real estate finance and of factors affecting the flow of funds; investment analysis and procedures involved in real estate financing.
Prerequisite(s): FI 302 or CE 366 or IE 203

FI442 Business Risk Management
Hours 3
Analysis of risks facing business and governmental entities. Various methods of both controlling the risks and financing the risks, including both insurance and non-insurance alternatives.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366

FI443 Property Liability Insurance
Hours 3
Current financial, legal, and social problems concerning the property-liability insurance industry. Role of government in providing insurance and topics in the management of property-liability insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366
FI444 Life & Health Insurance
Hours 3
Detailed analysis of life insurance and health insurance with emphasis on their role in employee-benefit planning. Specific provisions of qualified retirement plans. Current problems facing the life insurance industry and analysis of the distribution system for life and health insurance. Topics in management of life and health insurance companies and agencies.
Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366

FI460 Advanced Financial Planning
Hours 3
The purpose of this course is to require the student to demonstrate the ability to integrate and apply his or her knowledge of financial planning topics as received through the curricula taught in the Wealth Management Concentration. Through this course, you will apply the financial planning process to real-life situations and to communicate your planning recommendations via both a written plan and an oral presentation.
Prerequisite(s): AC 371, FI 341, FI 360 and LGS 403
Prerequisite(s) with concurrency: FI 414 and FI 444

FI491 Independent Study
Hours 1-6
Students may earn degree credit for only one independent study course (491). Individually directed research and reading.
Prerequisite(s): EC 110 and EC 111

FI492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): EC 110 and EC 111

FI497 Special Topics In Finance
Hours 1-3
Topics may vary.
Prerequisite(s): EC 110 and EC 111

GBA145 Freshman Compass: CBA
FCMP
Hours 1
An introduction to the Culverhouse College of Business. Topics include adjustment to college life, study skills, career exploration, and majors offered in the College.
Freshman Compass

GBA171 STEM Business Honors I
UH
Hours 1.5
This course introduces STEM students to critical and innovative thinking as it pertains to the issues of today's business environment, while providing a modest introduction to basic economics and the global marketplace. The course begins to introduce business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to develop an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA
University Honors

GBA172 STEM Business Honors II
UH
Hours 1.5
This course continues to build STEM students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to business ethics, business ownership structures, and entrepreneurship. The course continues to develop business model design as a tool to better understand how to operate. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171
University Honors

GBA245 Distance Learning Seminar
Hours 2
GBA 245 is a mandatory course to introduce newly admitted distance learning students to the Culverhouse College of Business. Topics include: adjustment to online learning, study skills, resources available to distance learners, and program requirements for online General Business majors.

GBA271 STEM Business Honors III
UH
Hours 1.5
This course continues to build students' critical and innovative thinking skills as they pertain to the issues of today's business environment, while providing a modest introduction to management roles, teamwork, and productive systems. The course continues to develop business model design as a tool to better understand how businesses operate. In addition, the course will provide students with the opportunity to work in teams, with a goal of developing skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.
Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172
University Honors
GBA272 STEM Business Honors IV  

**UH**

Hours 1.5

This course continues to build STEM students’ critical and innovative thinking skills as they pertain to the issues of today’s business environment, while providing a modest introduction to employee motivation, human resources management, and labor relations. The course continues to develop business model design as a tool to better understand how businesses operate, while introducing human centered design for designing business processes and products. In addition, the course will provide appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.

Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271

University Honors

GBA300 Business Communications  

**W**

Hours 3

This course introduces students to the concepts central to effective and efficient writing in the workplace. Students will learn to analyze the rhetorical context that gives rise to common business genres (e.g., meeting minutes, email requests, executive summaries, internal proposals, etc.). Based on rhetorical analysis, students will be able to develop content and manipulate organization and style, as well as use standard grammar and mechanics. Writing proficiency within this discipline is required for a passing grade in this course. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

Writing

GBA310 Introduction to Corporate America  

Hours 3

This course examines the concepts and principles of Corporate America. Students will research, study and present on the background and purpose of selected companies to understand their philosophy and practices in today’s business community.

GBA334 Introduction to Fraud Risk Management  

Hours 3

This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, detection, and follow-up.

Prerequisite(s): AC 210

GBA371 STEM Business Honors V  

**UH**

Hours 1.5

This course continues to build STEM students’ critical and innovative thinking skills as they pertain to the issues of today’s business environment, while providing a modest introduction to marketing, product and pricing issues, distribution and logistics, and customer communication. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for designing business processes and products. In addition, the course will provide students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.

Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272

University Honors

GBA372 STEM Business Honors VI  

**UH**

Hours 1.5

This course continues to build students’ critical and innovative thinking skills as they pertain to the issues of today’s business environment, while providing a modest introduction to financial information and accounting concepts, financial management, financial markets & investment strategies and the money supply and banking systems. The course continues to develop business model design as a tool to better understand how businesses operate, and build an understanding of human centered design for students with the opportunity to work in teams with a goal of developing an appreciation and basic understanding of the importance of business skills in their STEM careers. It will also create opportunities to network with other students as well as other business faculty.

Prerequisite(s): Admission to the STEM Path to the MBA, GBA 171, GBA 172, GBA 271, GBA 272, GBA 371

University Honors

GBA471 Special Topics in STEM Business Honors  

**UH**

Hours 1-3

This course is for students participating in the STEM Path to the MBA. It provides students in that program with the opportunity to explore issues of special interest in technology and science businesses.

Prerequisite(s): GBA 371 and GBA 372

University Honors

GBA481 Business Honors Program  

**UH**

Hours 2

Introduce students to contemporary business issues over a wide spectrum of firms and academic disciplines. Develop critical thinking and communications skills through a two semester client project.

University Honors
GBA490 Strategic Management

W

Hours 3

Examination of the managerial tasks of crafting and implementing strategic plans and the tools of strategic analysis. Students gain hands-on experience with tools and concepts of strategic management by participating in a business strategy simulation exercise and by analyzing actual companies. Writing proficiency within this discipline is required for a passing grade in this course. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): AC 210 and EC 110 and EC 111 and LGS 200 and ST 260 AND MATH 121 OR MATH 125. Completion of or enrollment in all 300 level GBA field courses MGT 300, MKT 300, OM 300, FI 302, and GBA 300.

Prerequisite(s) with concurrency: MGT 300 and MKT 300 and OM 300 and FI 302 and GBA 300

Writing

GBA491 Independent Study

Hours 1-3

The course offers students interested in general business the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with advice and permission of the appropriate instructor and the approval of program chairperson.

Prerequisite(s): MGT 300

HCM360 Introduction to Health Systems

Hours 3

Detailed study of components of the health care delivery system in the United States. The course emphasizes history, roles, and interactions of the various providers, consumers, and governments.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260 and CS 102

Prerequisite(s) with concurrency: MGT 300

HCM361 Healthcare Finance and Reimbursement

Hours 3

Focuses on health insurance operations, principles, payment methods and contracts, and revenue cycle management. Key topics include private and public sector insurance, insurance contracts, underwriting principles, and inpatient and outpatient payment processes.

Prerequisite(s): HCM 360

HCM362 Health Information Systems

Hours 3

Introduces students to healthcare databases and technologies. Key topics include the history and current status of information systems in healthcare, administrative and clinical applications, evidence-based medicine, information retrieval, decision support system, security and confidentiality, information system cycles, the electronic health record, key health information systems and standards, and medical devices.

Prerequisite(s): HCM 360

Prerequisite(s) with concurrency: HCM 361

HCM463 Healthcare Systems Improvement

Hours 3

This course explores the application of business intelligence and the role of analytics in supporting a data-driven healthcare system using various technology platforms.

Prerequisite(s): HCM 361, HCM 362 and MGT 452

Prerequisite(s) with concurrency: HCM 464

HCM464 Healthcare Data Mining

Hours 3

This course provides an overview of the data mining process, data mining standards and output protocols, and common techniques used in mining healthcare data.

Prerequisite(s): HCM 361, HCM 362 and MGT 452

Prerequisite(s) with concurrency: HCM 463

HCM465 Healthcare Analytics Projects Course

Hours 3

Integrates knowledge from previous healthcare courses and applies managerial and research skills to analyze data and related insights through working on practical issues with healthcare organizations.

Prerequisite(s): HCM 463 and HCM 464

HCM491 Independent Study

Hours 1-3

The course offers students interested in health care management the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with advice and permission of the appropriate instructor and the approval of the program chairperson.

Prerequisite(s): MGT 300

HCM492 Internship

Hours 3

Supervised administrative work experience in the health care industry.

IBA250 Context of Global Business

Hours 3

Broad introduction to international business providing students with an overview of the terms and concepts key to a better understanding of the complex business environment across the world’s interrelated economies.

Prerequisite(s): EC 110 and EC 111

IBA350 Introduction to World Business

Hours 3

This course examines the conduct of business across national boundaries and the impact of different cultures on business practices.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260
IBA351 Multinational Business Communication  
Hours 3  
A study of the principles and practices of intercultural business communication, written and personal. The course requires substantial reading. The focus is on making students aware of the sources of common intercultural business communication problems, and on helping them develop strategies to avoid or correct these problems.  
Prerequisite(s): MGT 300 or MKT 300

IBA455 Global Marketing  
Hours 3  
A course in marketing theory and methods as they apply to world markets. Among the topics discussed are: the importance of linking international marketing with the overall strategy of the business while examining the impact of cultural, political and legal issues and the economic differences in global strategies. Emphasis is placed on developing the marketing mix appropriate to various international global environments.  

IBA456 Export/Import Management  
Hours 3  
This course includes a thorough examination of the export-import management process and highlights its importance in international business strategy.  
Prerequisite(s): IBA 350

IBA492 Internship  
Hours 1-3  
This course is designed to give students meaningful hands on global business experience (any major) by applying the knowledge and skills learned in course work to on the job assignments and responsibilities at the host organization. That is, this course is a field experience conducted abroad.  
Prerequisite(s): Junior standing; Culverhouse student; 2.50 GPA

IBA497 Special Topics: Independent Study  
Hours 3  
This course offers faculty a chance to present topics of interest to themselves and to students with interests in international business.  

LGS200 Legal Environment of Business  
Hours 3  
Environmental approach to the study of law, including the way the law interrelates, philosophy of law, and sources of law. The relationship among law, business, political influences, and the society is treated. Students are limited to three attempts for this course, excluding withdrawals.

LGS350 Crimes Torts Bus Envirn  
Hours 3  
No description available

LGS402 Government & Business  
Hours 3  
This course is designed to give students some information about the regulations which government may or may not impose upon business, leaving students free to form their own conclusions as to their wisdom, adequacy, and practicability. Survey of basic constitutional principles and legal aspects of recent federal legislation affecting business and antitrust laws.  
Prerequisite(s): LGS 200 and EC 111

LGS403 Estates & Trusts  
Hours 3  
This course treats principles and rules of law relating to wills and inheritances; how the estates of deceased persons are administered; why and how trusts are created and operated; and the duties and settlement of executors, administrators, and trustees.  
Prerequisite(s): LGS 200

LGS407 Real & Personal Property  
Hours 3  
This course is concerned with the conveyance of property, deeds, covenants, condemnation of property, rights of landlord and tenant, and bailments.

MGT286 Entrepreneurship, Creativity and Ideation  
Hours 3  
Provide students with the skills necessary to apply business creativity in developing innovative solutions to problems in uncertain and dynamic business environments.

MGT300 Organizational Theory & Behavior  
Hours 3  
A course designed to help students understand organizational theory, interpersonal communication, and other behavioral science concepts and then integrate them into managerial tools for effective use in business, industry, and public-sector organizations. Students are limited to three attempts for this course, excluding withdrawals.

MGT301 Intro to Human Resources Management  
Hours 3  
Introductory course surveying problems and issues in labor economics, personnel management, and labor relations. Emphasis is placed on public policies affecting management and union representatives and on the role of the human resources manager in the organization.  
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

MGT302 Practicum in Management  
Hours 3  
Students develop further knowledge, skills, and abilities in the functional areas of management introduced in MGT 300.  
Prerequisite(s) with concurrency: MGT 300
MGT320 Leadership and Ethics
Hours 3
This course focuses on the interpersonal dynamics of managers, professionals, and entrepreneurs at work. Case analysis and simulation of problem solving and decision making are used to develop insight into human relations in organizations as well as to develop the personal and interpersonal skills needed in leadership roles. This course will emphasize ethical decision making particularly in challenging business environments.
Prerequisite(s): MGT 300

MGT322 Effective Negotiations
Hours 3
Negotiations are pervasive in all aspects of life. Having the ability to effectively negotiate can provide you with a competitive advantage in many situations. This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.
Prerequisite(s): Junior class standing and enrollment in Culverhouse College of Business, OR by permission of instructor.

MGT341 Business Ethics
Hours 3
Systematic examination of current issues and problems in the organization and management of business enterprises. The course combines readings, cases, and lectures that focus on the roles, activities, and ethical choices of managers as they direct organizations within the context of our contemporary society.
Prerequisite(s): MGT 300 minimum grade of C-

MGT386 Foundations of Entrepreneurship
Hours 3
Survey course describes entrepreneurs, different types of opportunities, how entrepreneurs creatively discover or recognize them, and exposes students to each stage of the new venture start-up process. Reviews special issues pertaining to different types of small businesses.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260
Prerequisite(s) with concurrency: MGT 300

MGT387 Creating, Recognizing, Evaluating and Pitching Opportunities
Hours 3
First of two courses that go in-depth through each start-up stage, including creativity, opportunities, business models, feasibility, and pitching. Emphasizes personal selling and presentation skills.
Prerequisite(s): MGT 386
Prerequisite(s) with concurrency: MGT 386

MGT388 Starting, Growing, and Harvesting New Ventures
Hours 3
Second of two courses describes in-depth each start-up stage, including legal forms, regulatory obligations, negotiating inputs, leadership, building a team, managing growth, and harvest strategies.
Prerequisite(s): MGT 301

MGT406 Family Business Management
Hours 3
MGT 406 will offer: 1) several perspectives on family business and 2) address the challenges and opportunities unique to the management of family businesses.
Prerequisite(s) with concurrency: MGT 386

MGT412 Management Presentations
Hours 3
Instruction and practice of information presentation in a business environment. Topics include conference room presentations, media briefings, team presentations, television interviews and audiovisual development.

MGT415 Ethics in Leadership Decision-Making
Hours 3
Using applied descriptive functional behavioral analytic techniques, students sequentially analyze, decompose, and develop models to explain unethical leadership decision making in organizations using quasi-naturalistic behavioral observation.
Prerequisite(s): MGT 300, MGT 320, and MGT 341

MGT420 Organizational Change
Hours 3
An investigation of structural, technological, humanistic, and task approaches to organizational change; the resistance to change; and the implementation of change in business and in private- and public-sector organizations.
Prerequisite(s): MGT 300 and MGT 301

MGT421 Corporate Entrepreneurship & Innovation
Hours 3
This course uses a case analysis method to examine the development and implementation of managerial actions in modern organizations.
Prerequisite(s): MGT 300

MGT422 Leadership Communication
Hours 3
Analysis of the role of communication in effective leadership for all management situations.

MGT431 Employee Recruitment, Selection, and Placement
Hours 3
The main purpose of this course is to provide students with detailed knowledge of an organization's staffing function. The knowledge includes, but is not limited to, understanding how to conduct a job's analysis, how to write a job description and the specifications of that job, how to choose appropriate recruitment and selection methods, how to structure and execute valid job interviews, how to write job offer letters, and how to evaluate the overall effectiveness of an organization's staffing strategy and policies.
Prerequisite(s): MGT 301

MGT432 Employee Relations
Hours 3
A critical examination of the factors that condition employee relations in both the private and public sectors.
Prerequisite(s): MGT 300 and MGT 301
MGT433 Compensation and Performance Management  
Hours 3  
This course will enable students to identify the components of a total reward system, understand the major compensation system design issues, become familiar with the provisions of the FLSA, and understand the relationship between compensation and performance management.  
Prerequisite(s): MGT 301

MGT434 Training and Development  
Hours 3  
This course examines both the theory and practice of training and development in organizations. Topics covered will include organizational, task, and individual needs assessment, training design and implementation, and evaluation techniques. This course will draw upon research and theory from management, psychology, and other relevant domains. Application of the text/lecture materials will be reinforced through class exercises, group assignments, guest lectures, and presentations.  
Prerequisite(s): MGT 300, MGT 301

MGT437 Strategic Human Resource Management  
Hours 3  
This course is designed to provide a broad, strategic overview of human resource management with practical applications. It will define and describe strategic HRM and identify the specific HR issues within organizational strategies, goals, and tasks. This class is designed to prepare students to sit for the SHRM college level certification exam.  
Prerequisite(s): MGT 301 and three of the four HR concentration classes (MGT 431, MGT 432, MGT 433, MGT 434)

MGT452 Project Management Communication  
Hours 3  
Demonstrate communication effectiveness in a business context by completing team project for a client, using written, oral, visual, and interpersonal skills.  
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

MGT481 New Venture Finance  
Hours 3  
Provide students with working knowledge of financing mechanisms such as venture capital, angel investments, and debt instruments for creating and operating a new venture.  
Prerequisite(s): MGT 300 and MGT 386

MGT482 New Venture Development  
Hours 3  
This course provides an opportunity to develop a business plan for a new venture or for expansion of an existing company. Students are expected to acquire skills in evaluating business ventures; to learn alternative financing sources; to develop ideas for differentiating products; and to develop an understanding of what is required to harvest the profits of a growing business.  
Prerequisite(s): MGT 300

MGT483 Technology Commercialization  
Hours 3  
This course focuses on getting ideas, innovations, or discoveries into the marketplace in the form of products or services, or into the value chain at any step, to increase the competitive advantage of the enterprise. The course offers an overview of the technology commercialization process. But more importantly, the course provides opportunities to assess technologies for commercialization. Indeed, the most useful description of the course is as a practicum in technology assessment. Throughout the course, students are engaged in technology assessment projects. This course links the activities of research and development, product and process design, technology transfer and marketing, new venture financing, technology entrepreneurship and intrapreneurship, protection of intellectual property, and management.  
Prerequisite(s): MGT 386 and MKT 410

MGT484 Small Business Management  
Hours 3  
Detailed review of aspects of managing and growing a small business, including evaluating and purchasing a small businesses, managing banking relationships, hiring and managing small workforces, legal and regulatory constraints, government resources, common accounting software, and creative ways to market with little money. Students will also learn project management as it pertains to small businesses.  
Prerequisite(s): MGT 386

MGT486 Small Business Consulting  
Hours 3  
This course is designed to offer education and training in the art of management consulting as it applies to smaller firms. The overall purpose of the course is the acquisition of knowledge and skills that will enable students to provide management advice to entrepreneurs and businesspersons to improve the performance of smaller organizations.  
Prerequisite(s): MGT 386 and MGT 484

MGT491 Independent Study  
Hours 1-3  
The course offers students interested in management the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with the advice and permission of the appropriate instructor and the approval of the program chairperson.  
Prerequisite(s): MGT 300

MGT492 Internship In Human Resources Management  
Hours 1-3  
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.  
Prerequisite(s): MGT 300

MGT497 Special Topics  
Hours 3  
Courses that offer the faculty a chance to present topics of interest to themselves and to management students.
MIS200 Fundamentals of Management Information Systems
Hours 3
Business process coordination and decision making through the use of information technology will be explored, emphasizing IT use by organizations in increasingly global markets.
Prerequisite(s): CS 102 or CS 100 or CS 104 or CS 150 with a grade of C- or higher, or UA Computer Science Placement Test Score of 380

MIS220 Business Programming II
C
Hours 3
A second computing class designed for students that will be majoring in Management Information Systems.
Prerequisite(s): CS 120 or MIS 120 or CS 150 or RRS 101 or CS 100

MIS320 Application & Information Architecture
Hours 3
The study and application of software engineering, application patterns, and file structures. Students design, construct, and test software structures for effective information management.
Prerequisite(s): MIS 295, CS 491 or CS 220 or MIS 220

MIS330 Database Administration
Hours 3
Logical data modeling, RDBMS, and their use in the business enterprise are presented. Topics include anomalies/normalization, database-connections performance, n-tier architecture, query operations, stored processes and integrity triggers, and Web applications.
Prerequisite(s): MIS 220 and (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

MIS340 Data Communication in a Global Environment
Hours 3
Enabling international exchange of digital data to support business operations. Cultural, legal, security and operational requirements coupled with international standards evaluated in multiple network architectural configurations supporting transactional knowledge workers, e-business and e-commerce applications.
Prerequisite(s): MIS 220 and (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

MIS430 Systems Analysis & Design I
Hours 3
Intermediate-level skills in systems analysis and design techniques are presented. Emphasis is placed on systems development and delivery tools, methods, standards, and processes.
Prerequisite(s): MIS 330 and MIS 320

MIS431 Systems Analysis & Design II
Hours 3
Advanced-level skills in systems analysis and design techniques are presented. Emphasis is placed on enterprise-level systems development, creation of tailored methodologies, creation of architectural standards, metrics, and business strategy alignment.
Prerequisite(s): MIS 430 and MIS 330 and MIS 320
Prerequisite(s) with concurrency: MIS 451

MIS440 Decision Support Systems
Hours 3
This course assesses information and process requirements to support business decisions in organizations. Students conceptualize, design, develop, and deliver model-based information systems designed to support effective managerial decision making.
Prerequisite(s): MIS 200 or MIS 295

MIS451 Systems Construction & Implementation II
Hours 3
Development of advanced software engineering skills to develop, deploy, test, document, and assess large-scale IT-based business solutions. Conversion, migration, training, maintenance, and operations plans and budget are emphasized.
Prerequisite(s): MIS 430 and MIS 330 and MIS 320
Prerequisite(s) with concurrency: MIS 431

MIS491 Independent Study
Hours 1-3
No description available.

MIS492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services. Students may earn degree credit for only one internship (492).

MIS497 Special Topics
Hours 1-3
Special topics in MIS.

MKT300 Marketing
Hours 3
A survey course that describes the nature of domestic and global marketing management. Emphasis is placed on market analysis to include consumer, industrial, institutional, and governmental markets for goods and services. Also emphasized are the marketing management functions of planning, pricing, promoting, and distributing goods and services in business and nonprofit contexts. Students are limited to three attempts for this course, excluding withdrawals.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260
MKT310 Principles of Social Media
Hours 3
A survey of interactive, electronic media and technology that enable organizations to 1) acquire products, services and materials from suppliers, 2) market goods and services to customers, 3) allow members of the organization to communicate with each other, and 4) monitor the external environment. Students develop e-commerce-related skills to design and execute a firm's marketing efforts, including Web project management, electronic market development and management, Web-enabled selling, and other emerging areas of marketing.
Prerequisite(s): MKT 300

MKT313 Consumer Behavior
Hours 3
Analysis of the basic processes underlying buyer behavior. Various factors are examined, including external influences (e.g., culture, reference groups, family) and internal influences (e.g., perceptions, attitudes, personality). Primary emphasis is on final consumers with a secondary emphasis on the external and internal influences affecting organizational buyers.
Prerequisite(s): MKT 300

MKT321 Retail Management
Hours 3
Analysis of existing generalizations and principles related to the economic and social role of retailing; competitive strategies; efficiency in retailing; and essential concepts for retail management.
Prerequisite(s): MKT 300

MKT337 Personal Selling
Hours 0-3
Introduction to successful selling practices and principles through presentation, discussion, role playing, and workshops. Includes principles of prospecting, establishing rapport, generating curiosity, being persuasive, creating desire, handling objections, and closing.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260
Prerequisite(s) with concurrency: MKT 300

MKT344 Promotional Management
Hours 3
Intensive investigation underlying ideas, principles, and concepts that may be used to inform consumers of the availability and attributes of products and services. The course includes comprehensive overview of promotional and sales management activities and tactics.
Prerequisite(s): MKT 300

MKT371 Site Selection Marketing Analysis
Hours 3
This course is designed to introduce students to the study of business and consumer markets from a geographic or a spatial perspective. Geography plays a huge role in marketing, including location decisions for business, marketing strategies and promotional efforts. New data sources that combine marketing and geography are available that help businesses better understand their opportunities and threats. Developers, builders, franchisers, retailers and advertisers hire people with marketing geography skills. The field introduces students to a specialized set of techniques which combine the theories of economic geography with those of strategic and marketing management. Students will learn techniques which will make them much more marketable to businesses and other organizations which make location decisions and/or develop marketing strategies and spatially defined markets.
Prerequisite(s): MKT 300

MKT376 Services Marketing
Hours 3
To understand the basic concepts and principles surrounding services marketing and management including processes, people, and physical evidence.
Prerequisite(s): MKT 300

MKT385 Marketing Information Systems
Hours 3
Introduces students to the types of information systems used in marketing as well as develop the basic analytical skills necessary to use the output from such systems. The course has a decision-making focus and will survey the tools available for marketing decision making. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 112 and MATH 121; or MATH 115 and MATH 125; or MATH 121; or MATH 125; or MATH 126; or MATH 131; and EC 110 and EC 111 and CS 102 and AC 210 and ST 260 or ST 250 and ST 251; and LGS 200

MKT410 Managing Innovation
Hours 3
Systematic examination of product policy and of the major concepts, methods, and strategies involved in decision making in the course of developing new products. Techniques and criteria used to identify and implement new products and services are examined in depth. Consideration is given to issues and strategies involved in the management of mature products.
Prerequisite(s): MKT 300

MKT411 Supply Chain Management
Hours 3
Supply chain management encompasses the design and administration of the systems of suppliers and distributors that collectively provide for the exchange of title, physical movement, and storage activities in marketing. The scale and complexity of supply chain relationships are escalating as firms strive to enhance interorganizational effectiveness and efficiency. This course examines the role of manufacturers and intermediaries in channel strategies and the scope, methods, problems, and opportunities of systemic supply chain coordination.
Prerequisite(s): MKT 300
MKT422 Supply Chain Strategy
Hours 3
Logistics is a system-based concept requiring the effective coordination of the flow of materials and goods from the point of origin to the end user. This course explores the key marketing tasks necessary to achieve an efficient logistics network: transportation, warehousing and materials handling, inventory management, forecasting, information and order processing, and simulation/modeling.
Prerequisite(s): MKT 300 and MKT 411

MKT437 Advanced Selling
Hours 3
The purpose of the course is to enhance communication and selling skills. Focus will be on the account management principles and the processes used to develop account and long term relationships with major accounts. Live selling situations will be used to practice skills.
Prerequisite(s): MKT 337

MKT438 Sales Management
Hours 3
This course builds on the basic sales process taught in Personal Selling (MKT 337) by focusing on Account Management and Team Management. Through class discussion and an Account Plan project, students gain an understanding of customer partnerships, business management, and sales team development. The concept that sales managers must both implement and facilitate corporate marketing plans is pervasive through the course.
Prerequisite(s): MKT 300
Prerequisite(s) with concurrency: MKT 337

MKT439 Key Account Management
Hours 3
To understand and practice the science of managing customer lifecycles; including account sourcing, analysis, categorization, strategic planning, tactical development and implementation.
Prerequisite(s): MKT 337 Personal Selling

MKT473 Marketing Research
Hours 3
Designed to prepare the student to be an informed, effective user of marketing research. Provides an overview of research techniques available for collecting information to answer specific research questions. Therefore, the orientation of the course is managerial.
Prerequisite(s): MKT 300

MKT476 Services Management
Hours 3
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 300
Prerequisite(s) with concurrency: MKT 376

MKT477 Advanced Services Marketing
Hours 3
To understand and practice the science of managing services in terms of service processes, physical and technology elements, and people.
Prerequisite(s): MKT 376, MKT 476

MKT487 Strategic Marketing
Hours 3
Analysis of marketing problems as they relate to the managerial functions of planning, organizing, and controlling marketing.
Prerequisite(s): MKT 313
Prerequisite(s) with concurrency: MKT 473

MKT488 Marketing Field Study
Hours 3
Working with a client firm, students apply (in a practical setting) the skills and knowledge they have acquired and build new skills in project management.
Prerequisite(s): MKT 300

MKT491 Independent Study
Hours 1-3
Students may earn degree credit for only one independent study course (491).
Prerequisite(s): MKT 300

MKT492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.
Prerequisite(s): MATH 121 or MATH 125 or MATH 145 or MATH 146; and CS 102 and LGS 200 and AC 210 or AC 201 and AC 202; and ST 260 or ST 250 and ST 251

MKT493 Special Topics in Marketing
Hours 3
Courses that offer the faculty a chance to present topics of interest to themselves and to marketing students.
Prerequisite(s): MKT 300

OM300 Intro Operations Management
Hours 3
This course is an introduction to the field of operations management and addresses the design and management of the activities and resources that a firm uses to produce and deliver its products or services. Topics include operations strategy, product and process design, total quality management, statistical quality control, supply chain management, location analysis, forecasting, inventory management, operations planning, and lean/JIT business processes. Students are limited to three attempts for this course, excluding withdrawals.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260
OM305 Information Technology for Operations Management

Hours 3
Introduction to the components of management information systems and applications of computer-based systems to business decisions. Open only to OM majors or by permission of the instructor. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

Computer Science

OM310 Introduction to Management Science

Hours 3
Concepts of management science and their application to decision making. Topics include linear programming, transportation models, integer programming, dynamic programming, queuing theory, decision theory, and network models.
Prerequisite(s): OM 300 and OM 385 or OM 305

OM321 Prod Planning & Contrl

Hours 3
The planning and control of production and service systems. Attention is given to forecasting, operations planning, scheduling, materials management, and operations control.
Prerequisite(s): OM 300

OM375 Statistical Quality Control

Hours 3
Statistical methods useful in control of quality of manufactured products. Topics include Shewhart and cumulative sum control charts; process capability analysis; and acceptance sampling procedures by attributes and variables. Emphasis is on understanding, design, implementation, and interpretation of these techniques.
Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

OM417 Logistics Management

Hours 3
Logistics deals with the planning and control of material flows and related information in organizations. This course covers logistics systems planning, organization, and control of these activities with a special emphasis on quantitative aspects of the decisions.
Prerequisite(s): OM 300 and OM 321 or OM 310

OM422 Production Scheduling Problems

Hours 3
A broad investigation into a variety of scheduling activities in a variety of environments. Topics include scheduling as applied to projects, job-shops, assembly lines, parallel machine systems, workforce, and transportation.
Prerequisite(s): OM 321

OM423 Inventory Management

Hours 3
Control techniques for the large multi-item inventories frequently associated with manufacturing supply and wholesale-retail operations. The limitations and usefulness of models in actual practice.
Prerequisite(s): OM 321

OM424 Purchasing and Sourcing

Hours 3
Course covers fundamental purchasing systems applications, supplier relations and evaluation, strategic planning in purchasing, purchasing techniques, value analysis and cost analysis.
Prerequisite(s): OM 300

OM450 Process Management & Improvement

Hours 3
An analytical study of strategies, tactics, and techniques for designing, evaluating and analyzing, controlling and improving processes. Emphasis is on topics such as Design for Flexibility, Lean, Six Sigma, Constraint Management will all be included along with process application of OM analytical tools such as simulation, queuing analysis, and value stream mapping.
Prerequisite(s): OM 321

OM487 Capstone Project Seminar

Hours 3
Course addresses the design, operation, and continuous improvement of business operations that deliver products and services. Students will work in teams on an operations oriented project with a local company. The student teams will provide periodic reports and presentations on their project work.
Prerequisite(s): OM 300 and instructor permission

OM492 Internship In Operations Management

Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations.

OM497 Special Topics

Hours 1-3
No description available
ST260 Statistical Data Analysis  
**C**  
Hours 3  
Introduction to the use of basic statistical concepts in business applications. Topics include extensive graphing; descriptive statistics; measures of central tendency and variation; regression, including transformations for curvature; sampling techniques; designs; conditional probability; random variables; probability distributions; sampling distributions; confidence intervals; and statistical inference. Computer software applications are utilized extensively. Emphasis throughout the course is on interpretation. Computing proficiency is required for a passing grade in this course. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 or CS 150 or CS 100 or CS 120 or CS 104 or GES 131 or GES 145 or UA Computer Placement Test Score of 380; minimum grade of C- required in any qualifying prerequisite.

Computer Science  

ST450 Statistical Methods in Research I  
**Hours 3**  
Development of fundamental concepts of organizing, exploring, and summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on methods and on selecting proper statistical techniques for analyzing real situations.

Prerequisite(s): ST 450 or GES 255

ST451 Statistical Methods in Research II  
**Hours 3**  
Analysis of variance and design of experiments, including randomization, replication, and blocking; multiple comparisons; correlation; simple and multiple regression techniques, including variable selection, detection of outliers, and model diagnostics. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on appropriate analysis of data in real situations.

Prerequisite(s): ST 450 or GES 255

ST452 Applied Regression Analysis  
**Hours 3**  
Data analysis using multiple linear regression, including residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques and co-linearity. Logistic regression uses similarly discussed for dealing with binary valued independent variables.

Prerequisite(s): ST 260

ST454 Mathematical Statistics I  
**Hours 3**  
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.

Prerequisite(s): MATH 227 or MATH 247

ST455 Mathematical Statistics II  
**Hours 3**  
Theory of order statistics, point estimation, interval estimation, and hypothesis testing.

Prerequisite(s): ST 454

ST497 Special Topics  
**Hours 1-3**  
No description available

College of Communication & Information  

ST452 Applied Regression Analysis  
**Hours 3**  
Data analysis using multiple linear regression, including residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques and co-linearity. Logistic regression uses similarly discussed for dealing with binary valued independent variables.

Prerequisite(s): ST 260

ST454 Mathematical Statistics I  
**Hours 3**  
Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.

Prerequisite(s): MATH 227 or MATH 247

ST455 Mathematical Statistics II  
**Hours 3**  
Theory of order statistics, point estimation, interval estimation, and hypothesis testing.

Prerequisite(s): ST 454

College of Communication & Information  

APR100 Professional Exploratory  
**Hours 1-3**  
The Professional Exploratory provides the student with one of the following, depending on qualifications: 1) an opportunity to shadow advertising or PR professionals in the workplace while being introduced to current practices and trends in the field or 2) an opportunity to gain practical experience (such as an internship) in the advertising or public relations field. Enrollment is by permission of the internship coordinator (or faculty sponsor) and the departmental chairman. In order to qualify for APR 100 as a shadow opportunity for one hour of credit on a Pass/Fail basis, the student must have an overall GPA of at least a 2.0 and be a declared advertising or PR major or minor. In order to qualify for APR 100 as a practical experience opportunity for one to three hours of credit on a Pass/Fail basis, the student must have an overall GPA of at least a 2.0 and have completed Phase 2 of the advertising or PR major or minor coursework. This course is repeatable for a six-hour-credit maximum.

Prerequisite(s):  

APR101 Creativity and American Culture  
**SB**  
**Hours 3**  
A survey of the theoretical, procedural and ethical issues associated with creative thinking. Examines both individual and organizational strategies for promoting creativity, and the creative thinker's role in shaping the culture. Also highlights the intellectual connections between the scholarship in creativity and its practical applications.

Social and Behavioral Sciences  

APR221 Intro To Advertising  
**Hours 3**  
A foundation course in advertising that includes historic and contemporary perspectives, advertising institutions and an overview of advertising theory, planning and practice. Key concepts and terminologies are also covered, complemented by interactions with advertising faculty and industry professionals.

Prerequisite(s):  

APR231 Intro Public Relations  
**Hours 3**  
A foundation course in public relations that includes historic and contemporary perspectives, public relations institutions and an overview of public relations theory, planning and practice. Key concepts and terminologies are also covered, complemented by interaction with public relations faculty and industry professionals whenever possible.
APR260 Software Applications I
Hours 1-3
Provides training in the Adobe Creative Suite (Photoshop, Illustrator, InDesign) as well as basic video editing and web development. Primary instruction is delivered online and administrated by an on-campus faculty member. This course is graded on a Pass/Fail basis.
Prerequisite(s): Must be a declared advertising or public relations major or minor.

APR270 Strategic Thinking (AD)
Hours 3
A case-study-based course devoted to the development of critical and strategic thinking skills needed to plan and execute advertising campaigns and related projects, with an emphasis on the decision-making process in regard to difficult ethical, leadership and revenue based scenarios, among others. Also emphasizes using research to effectively assess performance and competently develop a strategic communication plan.
Prerequisite(s): APR 221, APR 260, JCM 103, and MC 101 All require at least C- or above.

APR271 Strategic Thinking (PR)
Hours 3
A case-study-based course devoted to the development of critical and strategic thinking skills needed to plan and execute public relations campaigns and programs, with an emphasis on using research to effectively assess public relations situations and competently developing a strategic communication plan. Also emphasizes development of the critical thinking skills necessary to evaluate and critique strategic communication plans.
Prerequisite(s): APR 231, APR 260, JCM 103, and MC 101

APR280 Investigation and Insights
Hours 3
Focuses on the planning, execution and application of research during the strategic communication process. Introduction to sound and effective social scientific methods commonly used by advertising and public relations practitioners to analyze and segment audiences, inform strategic planning and message development, and evaluate strategic communication plans and campaigns. Also emphasizes effectively analyzing and presenting research findings, as well as to making insightful conclusions and recommendations based on those findings.
Prerequisite(s): APR 221 or 231, APR 260, JCM 103, and MC 101

APR300 Basic Principles of Design
Hours 3
Focuses on the basic elements of layout and principles of design and their application in advertising and public relations work. Students will create assignments in AD or PR lab sessions according to major or minor.
Prerequisite(s): JCM 103, MC 101, APR 221 or APR 231, and APR 260

APR301 Software Applications II
Hours 1
Provides intermediate level training for aspiring art directors in the Adobe Creative Suite (Photoshop, Illustrator, InDesign) as well as video editing, web and mobile app development, and animation. Primary instruction is delivered online and administrated by an on-campus faculty member. This course is graded on a Pass/Fail basis.
Prerequisite(s): Admission to creative specialization; APR 221, APR 260, APR 270, APR 280, APR 300, APR 310, JCM 103, and MC 101. Corequisite: APR 410.
Prerequisite(s) with concurrency: APR 410

APR310 Concepting
Writing
Hours 3
Rooted in the development of ideation skills and helping students to self-identify as either art directors or writers. Students acquire techniques and develop personal discipline inherent to the generation of novel, sophisticated creative work based on a solid concept: the distinctive, guiding idea that drives campaign messages. Assignments are evaluated in group critiques, and each student completes a final portfolio by semester’s end.
Prerequisite(s): APR 221, APR 260, JCM 103, and MC 101, and admission to creative specialization.

APR320 Creative Thinking
Writing
Hours 3
Focused on the appreciation and development of creative thinking skills for those who will assume advertising roles other than those traditionally located within creative departments. Also intended to foster understanding of how media and managerial specialists can work most productively with creative teams.
Prerequisite(s): APR 221, APR 260, JCM 103, and MC 101. Admission to consumer specialization

APR322 Copywriting Seminar
Writing
Hours 3
For aspiring writers, this course offers an intensive exploration of the craft across a variety of genres. Students gain an understanding of the power of words and the use of distinctive voices, with implications for strategic advertising copywriting. Students are also expected to research and write creative briefs. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.
Prerequisite(s): JCM 103, MC 101, APR 221, APR 260, APR 270, APR 280, APR 300, APR 310, and admission to creative specialization.
Prerequisite(s) with concurrency: APR 410
APR323 Art Direction Seminar
Hours 3
For aspiring art directors, this course offers an in-depth examination of formal graphic design principles and their application in advertising via lectures, reading assignments and projects. Topics include color theory, typography, and layout as well as applied skills associated with an art director's daily work.
Prerequisite(s): Admission to creative specialization; APR 221, APR 260, APR 270, APR 280, APR 300, APR 310, JCM 103, and MC 101.
Prerequisite(s) with concurrency: APR 410

APR325 Digital and Social Media
Hours 3
Provides students with the practical, theoretical and analytical knowledge and skills required to successfully develop, monitor and execute digitally based and social media campaigns. Students will acquire a skill set based on the demands of current industry practice.
Prerequisite(s): Admission to consumer or creative specialization; APR 221, APR 260, JCM 103, and MC 101.

APR332 Public Relations Writing
W
Hours 3
Provides students with the practical writing knowledge and skills to research, plan and execute online and traditional public relations communications successfully. Students learn how to execute commonly used research-based communications that allow an organization to meet its strategic goals and reach target audiences. Writing proficiency is required and must be demonstrated to pass this "W-designated" course.
Prerequisite(s): JCM 103, JCM 303, MC 101, APR 231, APR 260, APR 271, APR 280, APR 300, and 20 hours in the major.

APR380 Independent Study
Hours 1-9
Variable credit (1 to 9 hours). Analysis of advanced theoretical issues in commercial persuasive communication under the supervision of an advertising or public relations faculty member.

APR381 APR Practicum
Hours 1-3
Variable credit (1 to 3 hours). Supervised field experiences coupled with investigation of communication problems. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110; and APR 221 or APR 231; and APR 260; and APR 322 or APR 422 or APR 332; and JCM 103 and MC 101

APR385 Advertising Internship
Hours 3
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports submitted by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 221 and APR 260; and APR 322 or APR 422; and JCM 103 and MC 101

APR386 Public Relations Internship
Hours 3
The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports by the student. Students may take a total of only 3 hours in internship and/or practicum courses.
Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JCM 103 and JCM 303 and MC 101

APR401 Software Applications III
Hours 1
Provides advanced level training for aspiring art directors in the Adobe Creative Suite (Photoshop, Illustrator, InDesign) as well as video editing, web and mobile app development, and animation. Primary instruction is delivered online and administered by an on-campus faculty member. This course is graded on a Pass/Fail basis.
Prerequisite(s): Admission to creative specialization; APR 221, APR 260, APR 270, APR 280, APR 300, APR 301, APR 310, APR 410, APR 323, APR 422, APR 332, JCM 103, and MC 101
Prerequisite(s) with concurrency: APR 411

APR410 Portfolio I
Hours 3
This workshop course is devoted to the development and execution of portfolio pieces reflecting the pursuit of sound strategic and conceptual thinking. All work is done by art director/writer teams and finished executions are produced as the process of portfolio building begins. This work is reviewed by a jury of creative professionals at an end-of-semester critique.
Prerequisite(s): APR 221, APR 260, APR 270, APR 280, APR 300, APR 301, APR 310, APR 410, APR 323, APR 422, APR 332, and JCM 103 and MC 101, and admission to creative specialization.
APR411 Portfolio II
Hours 3
This workshop course is devoted to the continued development and professional-level execution of a complete advertising portfolio reflecting mastery of strategic and conceptual thinking. Each creative team’s work is both prepared and evaluated according to the highest industry standards and reviewed by a jury of creative professionals at an end-of-semester critique. Students are also advised regarding job search strategies and personal branding. This course may be repeated as a directed study with instructor permission.
Prerequisite(s): APR 221, APR 260, APR 270, APR 280, APR 300, APR 310, APR 322 or APR 323, APR 410, JCM 103, MC 101, and admission to creative specialization.

APR415 Online Magazine Writing
W
Hours 3
Further develops writing and editing skills that are crucial to successful public relations practice. Highlights some of the differences between writing for traditional print publications versus writing for emerging online communication channels. Students also research, plan, write, edit, produce and distribute a complete issue of Platform Magazine. Writing proficiency is required and must be demonstrated to pass this “W-designated” course.
Prerequisite(s): Permission of instructor; JCM 103, JCM 303, MC 101, APR 231, APR 260, APR 271, APR 280, APR 300, and APR 332.

Writing

APR418 Advertising Development
Hours 3
Theory and practice of idea development and portfolio building, with particular attention to the latest creative approaches being applied in advertising.
Prerequisite(s): MC 101 and APR 221 and APR 300 and APR 260 and APR 322 and EC 110; and MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and JCM 103

APR419 Public Relations Concepting and Implementation
Hours 3
Offers public relations students the chance to implement plans for increasing awareness and/or executing fundraising efforts on behalf of nonprofit organizations. This service learning experience culminates in the production of multiple portfolio pieces for at least one real-world client.
Prerequisite(s): APR 231, APR 260, APR 271, APR 280, APR 300, APR 332, JCM 103, JCM 303, and MC 101.

APR421 Account Planning
Hours 3
This course prepares aspiring account planners to accept responsibilities unique to the practice, including, but not limited to: the writing of creative briefs, data analysis, new product development consultancy, maintenance of productive account team relationships, social anthropology-based research, foresight and media communication planning.
Prerequisite(s): JCM 103, MC 101, APR 221, APR 260, APR 270, APR 280, and APR 320 or APR 325, with admission to Consumer specialization

APR422 Channel Planning
Hours 3
A wide-ranging, strategically focused course intended to develop decision-making skills involving both traditional and non-traditional media as well as the use of other communication channels. Students execute a case study project that involves complex strategy and media buying.
Prerequisite(s): APR 221, APR 260, APR 270, APR 280, JCM 103, and MC 101.

APR423 A+PR Management
W
Hours 3
Examines the managerial role in both advertising and public relations practice. Key dimensions in communication management, including, but not limited to, professional and business ethics, business and financial literacy, media management, organizational culture and communication, and leadership are covered. A variety of teaching approaches—case studies, team projects, debates, simulations, student presentations, readings and lectures—are employed. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Prerequisites: Students must satisfy one of the following sets of prerequisites: a) for the consumer specialization in the advertising major: MC 101, JCM 103, APR 260, APR 221, APR 270, APR 280, and APR 320 or APR 325; b) for the general advertising major: MC 101, JCM 103, APR 260, APR 221, APR 270, APR 280, and APR 300; and c) for public relations students: MC 101, JCM 103, APR 260, APR 231, APR 271, APR 280, JCM 303, APR 300, and APR 332.
Writing

APR424 Advertising Campaigns
Hours 3
This experiential learning course affords students the opportunity to plan, execute and present a complete advertising campaign for a large regional, national or international client. Students, working in agency-style teams, apply both theoretical and practical knowledge acquired in their previous coursework.
Prerequisite(s): Prerequisites: Students must satisfy one of the following sets of prerequisites: a) for the consumer specialization in the advertising major: MC 101, JCM 103, APR 260, APR 221, APR 270, APR 280, APR 421, APR 422, APR 423 and APR 320 or APR 325; b) for art directors in the creative specialization: MC 101, JCM 103, APR 260, APR 221, APR 270, APR 280, APR 300, APR 310, APR 410, APR 323, APR 301, APR 411, and APR 401; c) for copywriters in the creative specialization: MC 101, JCM 103, APR 260, APR 221, APR 270, APR 280, and APR 300; and d) for the general advertising major: MC 101, JCM 103, APR 260, APR 221, APR 270, APR 280, APR 300, APR 422, and APR 423.
**APR425 Crisis and Emergency Management**

**Hours 3**

Explores the role of strategic and effective public relations practice in crisis management. Focuses on students learning the theory and practice of strategic crisis and emergency management and communication: how issues occur and develop in crises, their impacts on publics and society, and how they should be managed and communicated to publics. A variety of teaching/learning approaches—case studies, a team project, simulations, student presentations, readings and lectures, guest speakers—are used to enhance and increase student responsibility for learning.

Prerequisite(s): JCM 103, MC 101, APR 260, APR 271, APR 280, JCM 303, APR 332 and 20 hours in the major.

**APR426 International Public Relations**

**Hours 3**

Explores the roles of public relations in different countries, in different contexts, and at the local, regional, national, and international levels. Covers current events, timely topics, and trends as they arise and as they are relevant to public relations, including how global technologies have created interconnections between and among corporate, activist, and nonprofit organizations and their stakeholder groups, forming networks of international communities without borders and accelerating the need for PR professionals who understand and can address cross-national and cross-cultural communications. Readings include academic scholarship in global public relations and public relations trade and business media sources around the world.

Prerequisite(s): MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, APR 332 and 20 hours in the major.

**APR427 Public Relations Leadership**

**Hours 3**

Public relations leaders represent vital human capital in organizations in today’s dynamic, high-speed communications world. This course describes the process or journey of becoming a PR leader and explores leadership theories, key research findings, top issues in the profession, roles and responsibilities of leaders, and the development process. Students will gain self-insights and develop their own leadership capabilities and capacities through diverse readings, assignments and exercises during the semester.

Prerequisite(s): MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, APR 332 and 20 hours in the major.

**APR428 Nonprofit Communications**

**Hours 3**

This course is designed to introduce students to the theory and practice of communication strategies in nonprofit organizations.

Prerequisite(s): MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, and APR 300.

**APR429 Sport and Entertainment Marketing and Promotions**

**Hours 3**

This course is designed to develop a thorough understanding of sports marketing principles and their application to all facets of the sports industry. Students will learn about how marketing affects other areas of a business that uses sports to reach their target consumers. Students will understand marketing from the perspective of managing a marketing program and participate in one practical field project with a leading organization in the sports industry.

Prerequisite(s): MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, and APR 300.

**APR430 Tech and Digital Communication**

**Hours 3**

This workshop-style course is designed to provide students with the practical, theoretical and analytical knowledge and skills required to successfully develop, monitor, and execute digitally based and social media campaigns. Students will acquire a skill set based on the demands of current industry practice. This course is a combination of lectures and exercises where strategic thinking, attention to detail and creative problem solving are crucial.

Prerequisite(s): MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, and APR 300.

**APR432 Public Relations Management**

**W**

**Hours 3**

The course concentrates on public relations as an essential element in the effective management of any organization and examines the concepts, perspectives, and practices that apply to the management of communication programs directed to various audiences inside and outside the organization. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.

Prerequisite(s): MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and EC 110 and APR 231 and APR 260 and APR 300 and APR 332 and JCM 103 and JCM 303 and MC 101.

Writing

**APR433 Public Relations Campaigns**

**Hours 3**

This experiential learning course affords students the opportunity to plan, execute and present a complete public relations campaign for a local, regional, national or international client. Students, working in teams, apply both theoretical and practical knowledge acquired in their previous coursework.

Prerequisite(s): Students must satisfy one of the following sets of prerequisites: a) for the general public relations major: MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, APR 332; and three of the following: APR 415, APR 419, APR 423, APR 425, APR 426 and APR 427; b) for a specialization in the public relations major: MC 101, JCM 103, APR 260, APR 271, APR 280, JCM 303, APR 300, APR 332; APR 428 or APR 429 or APR 430; and one of the following: APR 415, APR 419, APR 423, APR 425, APR 426 and APR 427.
APR443 Political Advertising & Political Public Relations  
Hours 3  
Study of the role of political advertising and political public relations in contemporary American media. A consideration of proactive and reactive political advertising and public relations strategies.  
Prerequisite(s): MC 101.

APR480 Readings In APR  
Hours 3  
Required readings are determined in consultation with the faculty member overseeing the course.

CIS100 Freshman Compass College of Communication  
FCMP  
Hours 3  
This course is designed for first-year majors in the College of Communication and Information Sciences. Students will learn about the various CIS majors, student resources and activities, advising, and career education.

Freshman Compass

CIS200 Academic Resiliency  
Hours 3  
This course is open to students in the College of Communication and Information Sciences (C&IS). The course is designed to aid students in their academic recovery, promote student success strategies, and assist with balancing academics and goals with challenges.

CIS201 Honors Information and Society  
SB, UH  
Hours 3  
A survey of the impact of current information issues and digital media skills in students’ personal and professional lives. This course provides an extensive overview of the intersection between information and society, particularly understanding issues related to human behavior and the usage of information. Framing information as central to all disciplines, this course is open to all Honors students regardless of major. Rather than focusing on a given methodology or skills development, the content of this course focuses on understanding the impact of information processing in our society and world through a cultural lens.

Social and Behavioral Sciences, University Honors

CIS250 Introduction to Design Software  
C  
Hours 3  
This class is an active learning introductory skills course to the Adobe CC programs Photoshop, Illustrator and InDesign. Through this class, students will learn the primary skill set for applications used to make professionally designed posters, ads, brochures, newsletters and other documents prevalent in communication. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): CS 102 or UA Computer Placement Test Score >= 380

Computer Science

CIS495 Studies in Communication & Information Sciences  
Hours 1-6  
Course content will vary to explore issues in Communication & Information Sciences on an individual or group basis. Content may include timely special topics of importance in various college disciplines as well as independent reading, research, experiences, and/or discussion concerning relevant disciplinary issues and will be detailed in each individual section syllabus. May be repeated as necessary.

COM100 Rhetoric And Society  
HU  
Hours 3  
The impact of public discourse on the ideas and issues of culture and history. Offered in the fall semester. HU designation for university core curriculum.

Humanities

COM101 Principles Human Communication  
SB  
Hours 3  
General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals. The focus is on identifying the foundation of human communication and the functions of communication in everyday situations. Offered in the spring semester. SB designation for university core curriculum.

Social and Behavioral Sciences

COM104 Forensics  
Hours 1 per semester (may earn up to 6 hours toward COM major). The individual events program focuses on the preparation and presentation of various kinds of speeches and on the oral interpretation of literature. The debate program focuses on the research and practice of oral argument.

COM121 Crit Decisn Makng Honors  
HU, UH  
Hours 3  
Introductory course in thinking critically for the purpose of participating in the process of public decision making and understanding how discussion, argumentation, and persuasion function as communication forms for that process. HU designation for university core curriculum.

Humanities, University Honors

COM122 Critical Decision Making  
HU  
Hours 3  
Introductory course in thinking critically and speaking credibly for the purpose of participating in the process of public decision making and for responsible civic engagement. HU designation for university core curriculum.

Humanities
COM123 Public Speaking  
_HU_

Hours 3

Theory and practice of basic principles of public speaking, with emphasis on the compositional and presentational aspects of communication in formal speaking situations. This course may be offered as a lecture course with a performance lab. HU designation for university core curriculum.

Humanities

COM124 Honors Public Speaking  
_HU, UH_

Hours 3

This course is designed for students in the Honors College and is themed to emphasize a connection between leadership development and public speaking. Theory and practice of basic principles of public speaking are covered, while focusing on mastery of speech composition and performance in formal speaking situations.

Humanities, University Honors

COM155 Freshman Seminar  
_HU_

Hours 3

Freshman Seminar.

Humanities

COM195 Special Topics for Freshmen  
Hours 1-3

Freshman exploratory-application of readings and discussion to specific activity. Topics may vary.

COM210 Oral Interpretn Literatr  
_HU_

Hours 3

Beginning course in the oral interpretation of literature. The course covers principles and techniques of analyzing and presenting poetry, prose, and dramatic literature orally. HU designation for university core curriculum.

Humanities

COM219 Honors Interpersonal Communication  
_SB, UH_

Hours 3

This course offers a focused investigation of interpersonal communication in the evolution in close relationships. Firmly rooted in communication research and theory, this course examines the overlapping influences of the self, perception, emotion, verbal and nonverbal messages, and listening. Furthermore, the course examines positive and problematic communication in various types of relationships (romantic, family, friend, and workplace) in a diverse society. Students will be challenged to learn through engaged discussions, reflective writing, and systematic application of course concepts and theories to everyday life.

Social and Behavioral Sciences, University Honors

COM220 Interpersonal Communication  
_SB_

Hours 3

Study of verbal and nonverbal communication in the evolution of human relationships. SB designation for university core curriculum.

Social and Behavioral Sciences

COM225 Small Group Communicatn  
Hours 3

Survey and application of basic group communication principles as related to task-oriented interpersonal, small-group, and large-group dynamics, within the context of complex organizations.

COM250 Nonverbal Communication

Hours 3

This course introduces the basic concepts related to the study of nonverbal communication and explores the application of nonverbal code information to specific communication contexts.

COM270 Discourse of Sport: Theory and Practice  
Hours 3

Introduces students to the major concepts, theories, and methodological perspectives that Communication Studies scholars bring to the study of sport.

COM295 Special Topics  
Hours 3

Reading and discussion in areas of significance. Topics vary.

COM300 Human Communication Research  
_W_

Hours 3

Focus on how communication research can be used to answer practical questions related to human communication and the media. Emphasis is given to critical analysis and empirical research. Writing proficiency within this discipline is required.

Prerequisite(s): COM 101

Writing

COM301 Intro Rhetorical Theory

Hours 3

Survey of the historical development of rhetorical theory from the classical period to the present.

Prerequisite(s): COM 100 or COM 123

COM310 Rhetorical Criticism  
_W_

Hours 3

Survey of critical approaches to rhetorical analysis of discourse. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): COM 100

Writing
COM320 Truth, Ethics, and Deception
Hours 3
An introduction to the major concepts, theories, and issues related to deceptive communication in a variety of arenas, such as relationships, the law, and the media. Students will learn about flaws in research on deception, how effective studies can be conducted, and will develop an enhanced ability to detect deception in everyday life.
Prerequisite(s): COM 100 or COM 101 or COM 220

COM323 Advanced Public Speaking
Hours 3
Advanced exploration of principles and models of contemporary public address.
Prerequisite(s): COM 104 or COM 121 or COM 122 or COM 123

COM340 Rhetoric & Popular Culture
Hours 3
An investigation of rhetorical constructions of social identities through cases of popular culture. Emphasis is on how mediated constructions come to reflect and reify dimensions of race/ethnicity, gender, class, sexualities, education, religion, abilities, and other subject positions.

COM341 Rhetoric & Amer Politics
W
Hours 3
Introduction to the structures and functions of written, spoken, and electronically mass-mediated political discourse in contemporary society. Writing proficiency within this discipline is required for a passing grade in this course.
Writing

COM342 Rhetoric Social Protest
W
Hours 3
Study of social protest discourse and how it functions rhetorically. Writing proficiency within this discipline is required for a passing grade in this course.
Writing

COM348 Argumentation
Hours 3
Theory and practice of argumentation, applying basic principles to both oral and written discourse.

COM349 Practicum In Forensics
Hours 3
Practical experience in establishing and administering forensic programs, preparing students for competitive forensics events, rendering critical judgments, and conducting forensics tournaments.

COM350 Organizational Communication
Hours 3
Theoretical approach to the study of human communication in the organization context. Emphasis is on predominant organizational communication theories and communication networks, as well as dyadic, small group, and public communication processes.

COM352 Business Prof Communication
Hours 3
Junior or Senior Standing. Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including resume preparation and presentation, interviewing, and interaction management in business and professional settings.

COM356 Visual Culture & Communication
Hours 3
Provides an introduction to the critical understanding of visual images and their uses in a variety of rhetorical actions that humans perform in persuasion, informing, governing, remembering and authorizing public life and culture.

COM368 Influence
Hours 3
This course explores contemporary theories of influence and their implications for communication practice. Topics include power and influence, logical theory, rhetorical theory, cognitive persuasion theory, framing theory, social influence theory, and socially mediated influence dissemination.

COM380 Special Topics
Hours 3
Reading, research, and discussion in areas of significance. Topics vary.

COM401 Communication & Diversity
W
Hours 3
Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.
Prerequisite(s): COM 100 or COM 101
Writing

COM415 African American Rhetoric
W
Hours 3
A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): COM 100
Writing

COM421 Political Communication
Hours 3
This course examines the content, processes, and effects of communication within the American political system. The course emphasizes the foundational theories and concepts central to political communication, as well as the complicated relationship between politics and media.
Prerequisite(s): COM 100 or COM 101
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<th>Course Title</th>
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<td>Practicum in Public Speaking Training</td>
<td>3</td>
<td>COM 123, completion of 60 or more university credits, and the approval of The Speaking Studio director.</td>
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<td>COM425</td>
<td>Gender &amp; Political Communication</td>
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<td>COM436</td>
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<td>COM440</td>
<td>Honors Seminar in Communication Studies</td>
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<td>COM450</td>
<td>Advanced Organization Communication</td>
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<td>COM460</td>
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<td>COM462</td>
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<td>COM463</td>
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<td>COM465</td>
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<td>COM469</td>
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COM423 Practicum in Public Speaking Training

Practical experience in public speaking consulting, helping clients clarify and craft effective messages, facilitate the recording and immediate feedback to cultivate dynamic delivery, and develop strategies to calm public speaking anxiety.

Prerequisite(s): COM 123, completion of 60 or more university credits, and the approval of The Speaking Studio director.

COM425 Gender & Political Communication

Study of the impact of gender on political communication activities. Topics include gender differences in political messages and voter orientation, masculine ideals of leadership, women's roles and advancement in the political sphere, and media representations.

Prerequisite(s): COM 100 or COM 101

COM436 Independent Study

Those permitted to do independent study will be required to participate in an undergraduate research colloquium as necessary to completing the work for academic credit.

COM440 Honors Seminar in Communication Studies

A seminar-style course designed for Honors College students to investigate issues in communication studies theory and research. Students who are majors are encouraged to produce original research and to share their work to professional or community audiences.

Prerequisite(s): COM 100 or COM 101

University Honors

COM450 Advanced Organization Communication

Hours 3

Advanced course focusing on current trends and issues in organizational communication. Course content will center on a variety of topics designated important to the conceptualization and successful operation of organizations. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): COM 350

Writing

COM460 Group Leadership

Hours 3

No description available

COM462 Theories Of Persuasion

Hours 3

Critical review of social influence theories and practice in the area of persuasion and human action. Special emphasis is given to the application of the theories in interpersonal and organizational communication contexts.
JCM100 Introduction to Story
SB
Hours 3
Introduction to story introduces students to narrative structure across a variety of media including film, television, news, documentary, and emerging media.

Social and Behavioral Sciences

JCM102 The Fundamentals of Media Technology
Hours 3
An introductory course designed to familiarize students with the storytelling technologies that they may be required to utilize while pursuing a degree in Journalism & Creative Media.

JCM103 Mechanics of Media Writing
Hours 1
The logic of sentence and paragraph structure in the context of media writing, with an emphasis on grammar, punctuation, word choice, conciseness and accuracy. This online course is required for news media, creative media and advertising/public relations majors.

JCM112 Motion Picture History and Criticism
FA, HU
Hours 3
Development of the cinema, with emphasis on relation of technical advances to film content and style. Non-majors only.

Fine Arts, Humanities

JCM145 Media Production for Non-Majors
Hours 3
This introduction class is a basic overview of video production specifically designed for non-creative media majors. It is a combination of lectures and hands-on exercises.

Prerequisite(s): No Creative Media Majors can take this class.

JCM146 Introduction to Sports Communication
Hours 3
This course serves as a foundation to the study and analysis of sports media and provides an overview of professional pathways.

JCM180 Journalistic Principles and Practices
Hours 3
This introductory survey course gives students a first look at the history and professional practices of journalism and electronic news by examining both legacy and contemporary media.

JCM200 Foundations for Journalism and Social Media
HU
Hours 3
JCM 200 is a survey of how the practices of journalism and news work in the context of a humanities course. Students should be able to deconstruct various stories in the news media to understand how economic, social, and ethical principles affect news reporting. In addition, the class covers the ethical and legal principles that guide journalists and the historical context in which the journalism evolved as a key player in democratic societies.

Humanities

JCM201 Introduction to Media Production
Hours 3
This course introduces students to the theories, concepts and techniques of professional video production and post-production, as well as the fundamentals, history and evolution of the visual language of the moving image. Topics include camera operation and technique, lighting design, sound recording, video editing, story development, and the ethical principles behind producing digital media. In this hands-on course, students will produce short video projects that emphasize visual storytelling, technical proficiency and creative authorship, while learning to critique their own and their peers work with a critical eye.

Prerequisite(s): JCM 100 and JCM 102

JCM202 Introduction to Post Production
C
Hours 3
This course introduces students to the theories and techniques of digital video and computer based post-production. Students will learn the ins and outs of the Adobe Premiere editing system, focusing on media management, efficient editing practices, sound and image manipulation, codec preferences and conversion, and exporting/uploading files to the web. This will primarily be a technical class, focusing on proficiency with the Adobe Premiere application, however the course also covers fundamental editing theory, the evolution of the medium and its impact on the editing craft, and key editing terminology and techniques. Projects will include both scripted and non-fiction material. Required reading will be accompanied by required viewing, in addition to practical editing assignments. Course instruction will only consider the Mac OS platform, however, the Adobe Premiere application is very similar for Windows PC’s. This course assumes a basic working knowledge of the Mac OS, including how digital files are transferred and the basic language associated with using the Mac interface. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 102 or UA Computer Placement Test Score >=380

Computer Science

JCM212 Film and Media Theory
Hours 3
Film and Media Theory introduces JCM students to a variety of critical cultural humanistic methods and approaches to evaluating film, television, and emerging media.

JCM303 News Writing and Reporting
W
Hours 3
This course introduces the skills required for basic news writing and reporting. The contents of this course are designed to help you learn how news stories are constructed and how the news industry operates. Writing proficiency within the discipline is required for a passing grade in this course.

Prerequisite(s): MC 101 and (JCM 103 or APR 231)

Writing
JCM310 Telecommunication Programming  
W  
Hours 3  
Program planning, development and strategies for radio and television stations, networks, cable systems, and syndication. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): JCM 100 
Writing  

JCM311 Critical Study of Television  
Hours 3  
Critical analysis of television programs and commercials. Examples are presented for study and evaluation.  
Prerequisite(s): JCM 112 or JCM 212  

JCM312 International Cinema  
Hours 3  
Critical study of motion pictures produced throughout the world. Film screenings are a necessary part of this course.  
Prerequisite(s): JCM 112 or JCM 212  

JCM315 Advanced News Writing and Reporting  
W  
Hours 3  
Advanced practice of newsgathering and newswriting for specialized topic areas ranging from government, education to more soft news and human interest stories. Writing proficiency is required for a passing grade in this W-designated course.  
Prerequisite(s): JCM 303 
Writing  

JCM317 Commercial Media Writing  
Hours 3  
Study of and practice in techniques and skills used in writing and presenting commercial copy and professional reports as required by the media profession.  
Prerequisite(s): JCM 100 with a C- or higher  

JCM318 Documentary Storytelling  
Hours 3  
This course will help students reach a better understanding of the documentary by exploring its contemporary development, its many genres, and the journalistic and ethical questions that arise in documentary production. By studying this complex and often controversial form, students will become more knowledgeable as media consumers, and more thoughtful as producers of multimedia material.  
Prerequisite(s): JCM 100 with a C- or higher  

JCM320 News Design and Visualization  
W  
Hours 3  
Visual journalism is the use of visual elements, rather than simple type, to present information and ideas. This course allows students to study and practice various forms of visual journalism including newspaper and magazine design, information graphics and photo editing. This course requires students to master the industry standard software used to create these products — Adobe InDesign, Photoshop, Lightroom and HTML — while thinking creatively and critically.  
Prerequisite(s): JCM 327 and JCM 303 with a minimum grade of C-  

JCM323 News Editing and Multimedia Production  
W  
Hours 3  
This course covers the preparation of copy for publication across media platforms, with an emphasis on careful writing, accuracy and presentation. Writing proficiency is required for a passing grade in this W-designated course. In this class, you will study and learn the art of connecting language with shared meaning in a news context. By the end of the course, you should have the skills necessary to land entry-level professional editing jobs and you should have gained a conceptual foundation that will serve you well in higher editing positions.  
Prerequisite(s): JCM 327 and JCM 303 with a minimum of C- 
Writing  

JCM324 Audience Analysis  
Hours 3  
This course will familiarize students with the ways in which industry research professionals think about their work and about the opportunities and challenges they face as they assess audiences in our highly competitive, rapidly evolving, and increasingly complicated media environment.  
Prerequisite(s): JCM 100  

JCM325 Sports Writing and Reporting  
Hours 3  
In this course students will learn how to cover live sporting events, including writing game stories, covering press conferences and writing feature profiles. The course will operate much the same as a real-world newsroom. You will receive hands-on experience in news gathering, interviewing and writing for print and online media. You also will learn to brainstorm and pitch story ideas, which is an invaluable skill in today’s media environment. The course is driven by deadlines. It requires self-discipline, creativity and attention to detail.  
Prerequisite(s): JCM 303 with minimum grade of C-  

JCM326 Television and Radio Performance  
Hours 3  
A practical approach to techniques necessary for effective presentation on radio, television, and the internet; emphasizes copy interpretation, interview skills, and studio and field performance for microphone and camera.  
Prerequisite(s): JCM 100
JCM327 Visual Journalism
Hours 3
Visual Journalism is a 3-credit-hour beginning course that will help students of all abilities learn about visual tools used in the gathering and distribution of news. This course will challenge students, intellectually and technically, regardless of the prior experience and skills each brings to class. No prior knowledge of visual reporting is required.
Prerequisite(s): JCM 180 with a C- or higher

JCM331 Introduction to Electronic Reporting
Hours 3
Students will learn the terminology of the electronic reporting industry and will begin writing for broadcast. This course also covers basic equipment used in the newsroom and in the field.
Prerequisite(s): JCM 100
Prerequisite(s) with concurrency: JCM 303

JCM333 Working for Television News
Hours 3
The purpose of this class is to build electronic news skills. Students will build on skills such as writing for broadcast, shooting video, editing video and audio, on-air delivery, entering story ideas, finding different angles on stories, and how to evaluate the finished product. This course concentrates on broadcast news, emphasizing on-camera work and the various responsibilities involved in studio and remote production.
Prerequisite(s): JCM 303 AND JCM 331 with a minimum grade of C-

JCM335 Audio Production
Hours 3
This course focuses on voice, music, and sound effects, and the impact they have on the visual image. It addresses the principles of recording sound and explains sound characteristics, basic acoustics, ergonomics, and proper audio recording techniques for field and studio recording, as well as time code and mixing.
Prerequisite(s): JCM 102

JCM340 Digital News
Hours 3
This class will give students the skills they need to adjust to a variety of modern and emerging media. Students will produce media projects that build on the skills they already possess from previous classes. Students will prepare and present news and sports for various media outlets, including online and web formats.
Prerequisite(s): JCM 303 AND JCM 331 with minimum grade of C-

JCM341 Intermediate Visual Journalism
Hours 3
Intermediate Visual journalism will help students expand their photography skills and use them in the gathering and distribution of news. This course will challenge students who already have a basic working knowledge of the camera, intellectually and technically.
Prerequisite(s): JCM 327 and JCM 303 with a minimum of C-

JCM346 Short Film Writing
Hours 3
This course is designed to teach students about the elements of screenplay: structure, plot, character arc, subplot, inciting incident, climax, resolution, visual storytelling, dialogue, subtext, secondary characters. Writing will be critiqued and work-shopped by peers.
Prerequisite(s): JCM 201

JCM347 Television Film Writing
Hours 3
This course is designed to teach students about the elements of screenplay for television: structure, plot, character arc, subplot, inciting incident, climax, resolution, visual storytelling, dialogue, subtext, secondary characters. Writing will be critiqued and work-shopped by peers.
Prerequisite(s): JCM 201

JCM348 Advanced Feature Film Writing
Hours 3
This course is designed to teach students how to develop advanced elements of screenplay: structure, plot, character arc, subplot, inciting incident, climax, resolution, visual storytelling, dialogue, subtext, secondary characters. Writing will be critiqued and work-shopped by peers.
Prerequisite(s): JCM 346

JCM350 Advanced Videography
Hours 3
This course equally emphasizes modes of visual storytelling and technical practices using digital video cameras and lighting techniques. This course will help students develop creative vision, sharpen aesthetic understand, and advance technical skills. The goal is to take an idea and learn how to bring them to the screen. This hands-on workshop will group students in production teams for working in in-class exercises and for filming outside of class meeting hours. It is a production & time intensive course.
Prerequisite(s): JCM 100 and JCM 201

JCM354 Production Management
Hours 3
Study of and practice in techniques and skills used in organizing location shoots for television, film, documentaries, and commercials.
Prerequisite(s): MC 101 and JCM 100

JCM356 Movie Marketing
Hours 3
This class will present the various strategies and tactics used in marketing movies to consumers.
Prerequisite(s): JCM 100 and (JCM 112 or JCM 212)

JCM372 Media Effects
Hours 3
Study of individual and society effects of media, including the impact and influence on attitudes and culture beliefs.
Prerequisite(s): JCM 100 or MC 101
JCM380 Independent Study
Hours 1-3
Analysis of current issues and practices in news media and/or creative media under the supervision of a faculty member. May be repeated for credit provided the topics are different.

JCM381 Digital Media Practicum
Hours 1-3
JCM 381 offers students the opportunity to experience the professional work environment where skills and principles they have learned in the classroom setting are applied. The practicum for qualified undergraduates is conducted under the joint supervision of the Journalism and Creative Media Department and an appropriate organization. Many practicum-level experiences are available through organizations located on campus in the Digital Media Center.
Prerequisite(s): JCM 103 with a minimum grade of C-

JCM382 News Media Internship
Hours 1-6
JCM 382 offers students the opportunity to apply in a professional work environment the skills and principles they have learned in the classroom setting. The internship is a part-time or full-time job experience for qualified undergraduates conducted under the joint supervision of the Journalism and Creative Media Department and a profession media organization.
Prerequisite(s): JCM 303 with a minimum grade of C-, minimum of 45 overall earned hours

JCM383 Creative Media Internship
Hours 1-3
JCM 383 offers students the opportunity to apply in a professional work environment the skills and principles they have learned in the creative media classroom setting. The internship is a part-time or full-time job experience for qualified undergraduates conducted under the joint supervision of the Journalism and Creative Media Department and a profession media organization.
Prerequisite(s): JCM 201 with a minimum of C-, minimum of 45 overall earned hours

JCM387 Production Crew
Hours 3
This course is open to all JCM Creative Media majors who want to work collaboratively on intensive creative productions including short films, documentary projects, podcasts, audio stories and web-based projects. Students will develop hands-on production skills working in collaboration with directors who are making work through advanced production courses. Students will work in crew positions such as producers, production managers, casting directors, cinematographers, camera operators, gaffers, grips, production designers, art directors, assistant editors, editors and other key creative positions that will work in collaboration with the directors and faculty advisors for each project.
Prerequisite(s): JCM 201

JCM390 Media Sales in the Digital Age
Hours 3
Understanding prospective clients’ businesses; knowledge and application of audience research; application of the marketing model; understanding of effective media mix and advertiser buying influences; assessment of competitive advantages; and written presentations.
Prerequisite(s): JCM 100; MC 101

JCM411 Depth Reporting and Writing
W
Hours 3
Reporting and writing longer news and feature stories for publication in print and online. Students learn advanced techniques in information gathering, story organization, non-fiction writing and multimedia elements.
Prerequisite(s): JCM 315 or JCM 325

JCM412 Seminar in American Cinema
W
Hours 3
Study of selected topics in United States film. Writing proficiency is required for a passing grade in this W-designated course.
Prerequisite(s): JCM 112 or JCM 212

JCM413 Gender, Music, and Pop Culture
Hours 3
This course uses a critical-cultural studies approach to analyzing gender and popular music in order to better examine gendered sites within music culture. It draws upon theories and methodologies associated with media studies, popular music criticism, sociology, musicology, sound studies, cultural studies, performance studies, fan studies, star studies, ethnography, literary analysis, women’s and gender studies, critical race theory, and queer studies.
Prerequisite(s): JCM 100

JCM414 Film Festivals and Independent Cinema
Hours 3
Course examines film festivals as historical, cultural, and economic spaces. In seminars, students explore topics of art house/experimental/avant garde cinema and documentary.
Prerequisite(s): JCM 112 or JCM 212

JCM425 Digital Sports Coverage
Hours 3
The purpose of this class is to build on the sports skills that you should already possess. We will build on skills such as writing, shooting video, on-air delivery, enterprising story ideas, finding different angles on stories, and how to evaluate your work and your colleagues’ work. Topics will include on-camera work and the various responsibilities involved in sports production. This course will also include discussion of current issues in broadcast sports, ethics, and professional career possibilities.
Prerequisite(s): JCM 325
JCM426 Advanced Design and Visualization
Hours 3
This course focuses on editing, production and visual storytelling for print and digital media, including magazines and periodicals as an editorial standard. This class combines lectures, student presentations, in-class assignments/discussion and project work.
Prerequisite(s): JCM 320 and JCM 323

JCM428 Editorial Analysis and Opinion
W
Hours 3
Study of the role of American news media in influencing public opinion through editorial/opinion writing and news analysis. Practice in persuasive writing and using evidence and research to craft an effective argument.
Prerequisite(s): JCM 315 or JCM 325
Writing

JCM429 Food Writing and Reporting
Hours 3
Conceptualizing, pitching, reporting, and writing food journalism. Students read and analyze examples of food news and feature articles. Students produce food-related content for digital and print publications.
Prerequisite(s): JCM 315 or JCM 325

JCM431 Multicamera Production
Hours 3
This course will introduce students to the (preproduction, production and postproduction) theories and techniques of multicamera productions. There will be a major emphasis on hands-on instruction in this class throughout the entire semester. In addition, this class will emphasize live directing theory and execution, and multicamera studio/field techniques. Students will learn the language, protocol, and aesthetics used to produce industry standard multicamera programs. This is a course that allows students to experience all aspects of multicamera video production with an emphasis on directing, technical directing and camera operation.
Prerequisite(s): JCM 201

JCM432 Advanced Production
Hours 3
This is an advanced production course focusing on television and film production. The students will serve as a production team responsible for the conceiving, shooting, editing and delivering of broadcast-ready content for television or film outlets.
Prerequisite(s): JCM 201

JCM433 Advanced Post Production
Hours 3
This course introduces students to advanced editing skills. Students will learn the functionality of the software, as well as discuss the proper way to approach getting material in and out of the system. Students will elevate their editing abilities with emphasis on techniques, understanding performance, pacing and visual story structure, integration of motion graphics and music, advanced project organization, and prepping a project for professional sound and picture finishing.
Prerequisite(s): JCM 202

JCM436 Teaching Multimedia News
Hours 3
This intensive service learning course is designed to give students an overview of news and the process of producing school media. Using a workshop-oriented format, the course places emphasis on service learning, or “learning by doing” with hands-on projects that acquaint students with the software applications used to generate media products. Students will also spend time in classrooms learning about school publications.

JCM437 Scene Directing
Hours 3
Instruction in directing for television and film with an emphasis on directing actors, blocking for the camera, and narrative production techniques. Course includes the production of short fiction projects on digital video.
Prerequisite(s): JCM 201 and (JCM 350 or JCM 432)

JCM438 Capstone Screen Directing and Producing
Hours 3
Directors and producers will work in a collaborative environment to create a short film to be put on the festival circuit. Directors will learn the elements of narrative, working with actors, visual storytelling, and collaborative communicative skills. Producers will work with the directors to secure funding, talent, location, crew, and equipment. Producers will learn to lead a production, budget for a short film, and lock picture in time for the festival circuit.
Prerequisite(s): JCM 437 or JCM 454

JCM441 Advanced Documentary Production
Hours 3
Advanced Documentary Production is an advanced level production class in which students create serious original video projects. This course guides students through the design, pre-production planning, production, postproduction and subsequent evaluation of individual and group documentary project(s). Instruction topics include contemporary visual storytelling, cinematic philosophies, ethical issues, research, funding, and distribution.
Prerequisite(s): JCM 318 and (JCM 350 or JCM 431)

JCM442 Specialized Magazine Writing
W
Hours 3
This course is designed to help students understand writing and editing of long-form articles for publication in print and online depth magazines. Students will learn advanced narrative non-fiction writing techniques and how to gather information for longer feature stories. Writing proficiency within this discipline is required for a passing grade in this W-designated course.
Prerequisite(s): JCM 315 or JCM 325
Writing
JCM443 Science Journalism
Hours 3
The course will provide students with hands-on experience writing about STEM — science, technology, engineering, and math. It will operate much the same as a real-world newsroom. Students will receive hands-on experience in news gathering, interviewing and writing for print and online media. Students will also learn to brainstorm and pitch story ideas.
Prerequisite(s): JCM 303 with at least a C- and a 2.0 GPA

JCM444 Advanced Sports Writing & Reporting
Hours 3
This course covers advanced techniques in reporting and writing for sports media. Students analyze published work, begin their own sports blog and write several articles, including two in-depth pieces. Several of the nation's most prominent sportswriters will join us either in person or via Skype to offer insight into what it takes to flourish in an increasingly competitive media landscape.
Prerequisite(s): JCM 315 or JCM 325

JCM445 Analysis of Sports Writing
Hours 3
Students will analyze multiple pieces of longform, narrative journalism that have some connection to sports. This analysis will focus in large part on the finished story itself, but students will also look into the story's cultural context and the process through which it came in to the world.
Prerequisite(s): JCM 303 and JCM 325

JCM448 News Analysis
Hours 3
This course is designed to help you understand the issues pertinent to news, from its production, function, effects to external influences on news. We will look at what constitute news; who are the professionals producing news; who are the people consuming news; what factors affect production and consumption. We will also examine how news serves its audience and society and how news affects the social, economic and political processes. Finally we will examine how news can be manipulated and how news bias affects media credibility.
Prerequisite(s): JCM 100

JCM450 Advanced Video Projects
Hours 3
This course is designed as an upper level, advanced production course. Its emphasis is placed on utilizing and elevating previously learned technical skills, while students explore their cinematic voices through a conceptual and aesthetically focused narrative project. The course encourages creative risk taking within the pragmatic workflow of producing a short film.
Prerequisite(s): JCM 431 or JCM 432

JCM451 Media Management
Hours 3
Development of leadership skills for managing media organizations in the global environment. Students will analyze media industries and media data, review case studies and try to resolve media challenges. Students will gain a deeper understanding of the impact of a digitized media world.
Prerequisite(s): JCM 331

JCM452 C&IS in LA Part I
Hours 3
In this course students will learn about film, television, new media and industry through internships and required class activities in Los Angeles. We will network with professionals, attend industry events, film festivals, screenings and master classes, tour graduate film programs, visit working Hollywood studios, and network with many UA alumni. This course aims to help students gain insight in and preparation for careers in creative media industries.
Prerequisite(s): JCM 100

JCM453 C&IS in LA Part II
Hours 3
This course extends the learning goals of JCM 452: JCM IN LOS ANGELES INDUSTRY TOUR, where students continue to intern at a Los Angeles-based film, television or media company, and attend career enriching course activities including studio tours, networking events, and meetings with industry professionals.
Prerequisite(s): JCM 452

JCM454 Advanced Production Management
Hours 3
Advanced study and practice in the skills needed for successful production management, including professional software. Emphasis placed on critical thinking, problem solving and team building.
Prerequisite(s): JCM 354

JCM462 Motion Graphics
Hours 3
This course introduces students to software in motion graphics creation platforms. Students will develop their creative abilities with emphasis on element creation, green screen technology, practical vs. digital effects, further developing an understanding of codecs, prepping a project for professional sound and picture finishing, and executing the final phases of post-production including output.
Prerequisite(s): JCM 100 and JCM 201 and JCM 432

JCM471 Senior Production Project I
Hours 3
Students must be JCM media production major (application track) with a project idea that is ready to pitch for pre-production. Students must be in senior standing.
Prerequisite(s): JCM 201

JCM472 Senior Production Projects II
Hours 3
Students produce and edit short senior projects developed in JCM 471. Students will develop their skills directing the camera, working with talent, working with the crew, staying on schedule and budget and see their projects through the post-production and distribution phase. By the end of the term students will have a fine cut and a press kit for their project.
Prerequisite(s): JCM 471
JCM473 Documenting Justice Part I
Hours 3
An interdisciplinary course focusing on documentary filmmaking. The aim of the class is to teach students how to use film to document and analyze the many dimensions of culture and social experience at issue when focusing on a story of justice or injustice in Alabama. The course involves study in documentary theory and history and the ethics of cinematic nonfiction.

JCM474 Documenting Justice-Part II
Hours 3
Documenting Justice is a specialized interdisciplinary course in documentary filmmaking. Harnessing a wide variety of perspectives drawn from disciplines across the humanities, the aim of the class is to teach students how to use film to document and analyze the many dimensions of culture and social experience at issue when focusing on a story of justice or injustice in Alabama. The course involves study in documentary theory and history and the ethics of cinematic nonfiction, culminating in the creation (in pairs) of an original film.

Prerequisite(s): JCM 100

JCM475 Anatomy of a Trial I
Hours 3
A specialized interdisciplinary service-learning course in narrative nonfiction. Focusing on a single story of injustice, the class collaborates to use film, audio and other media to create a rich, web-based narrative in its broader social and historical context.

Prerequisite(s): This course requires departmental approval.

JCM476 Anatomy of a Trial-II
Hours 3
An interdisciplinary course focusing on documentary filmmaking. The aim of the class is to teach students how to use film to document and analyze the many dimensions of culture and social experience at issue when focusing on a story of justice or injustice in Alabama. The course involves study in documentary theory and history and the ethics of cinematic nonfiction.

Prerequisite(s): JCM 475. This course is departmentally controlled.

JCM477 Production House I
Hours 3
This course will support the production of video projects working with clients. Aimed at teaching student producers who have primarily produced content independently or as part of class projects, this course will show creative producers how to work “for hire” on projects with campus partners and community organizations who will serve as “clients.” The course will engage students in commercial production where they must develop ideas and produce video projects for a client, develop ideas, pitch to clients, filming in studios and on location, and learn how to work through feedback notes from clients. The aim of this course is to help student understand how to develop projects working with campus partners, community organizations and act as producers, directors and crew to create work “for hire.”

Prerequisite(s): JCM 201; departmental approval.

JCM478 Production House II
Hours 3
The aim of this course is to advance understanding and technical skills in the scope of production for hire. Students work in production crews to develop projects for clients.

Prerequisite(s): JCM 477; Departmental permission.

JCM480 International Media Production
Hours 3
In this course students will learn the business practices as well as the editorial leadership roles associated with producing a magazine. The course will culminate by printing a student-produced magazine in which every student has played a role in the writing, reporting, and photographing of people and cultures in different countries.

Prerequisite(s): JCM 325 OR JCM 320 OR JCM 341 OR JCM 323 OR JCM 333

JCM485 Capstone Sports Portfolio
Hours 3
This course is the most advanced course in the University's broadcast journalism sequence with a sports emphasis. It draws heavily on the writing journalistic, production, and performance skills learned in the 286 and 333 courses and which are essential to entry into the profession. This course will enhance these skills, and introduce new ones.

Prerequisite(s): JCM 303 and (JCM 325 or JCM 425 or JCM 444)

JCM486 Capstone Critical Studies
Hours 3
Students adopt staff roles at Dateline Alabama, a news site showcasing the original work of journalism students at the University of Alabama. Students produce and publish original articles, photography, multimedia stories and other reportage. Through team-based coverage, students will shine light on the important events, issues and people of our communities: The University of Alabama, Tuscaloosa and the state of Alabama. Students will hone the skills they need to succeed as professional journalists, finishing the semester with the portfolios needed to land internships and jobs.

Prerequisite(s): JCM 303 and JCM 331

JCM487 Capstone Sports Portfolio
Hours 3
This course will enhance these skills, and introduce new ones.

Prerequisite(s): JCM 325 or JCM 320 or JCM 341 or JCM 323 or JCM 333

JCM488 Capstone Critical Studies
Hours 3
Students will synthesize what they have learned in previous courses in critical studies for application in a research project on a topic of their choosing. The project may be either a conventional research paper or a videographic essay.

Prerequisite(s): JCM 212 or JCM 331

JCM490 Electronic News Producing
Hours 3
This class provides a real world experience of how to produce news, weather, and sports content for a television station, network, or cable outlet. By producing daily newscasts, students gain extensive experience in writing for broadcast and producing content for various story forms. The emphasis is on the organization and analysis of newsworthy content as well as understanding how to work as a news team to put together a professional on-air product.

Prerequisite(s): JCM 333
JCM491 Special Topics in Journalism and Creative Media  
Hours 1-3
Course content varies to explore current topics relevant to news media and creative media majors and minors. Repeatable for up to 6 credits if the topics are different.  
Prerequisite(s): JCM 100 or departmental approval.

JCM492 Creative Professional Development  
Hours 3
This course supports the professional development of JCM media production (application track) majors interested in careers in film, television or broader media industry careers. This course helps to prepare graduates to enter the competitive and challenging landscape of the industry. The course engages students in industry research, career mapping, building resumes, drafting cover letters and exploring formats for portfolios. Students study industry hierarchy and structure, research companies, industry terminology, and learn how to plan successful paths from graduation to a career in the entertainment industry.  
Prerequisite(s): JCM 438 or JCM 441

JCM493 Ethics and Diversity in Media  
Hours 3
Examination of current issues and ethical practices in the field of journalism. Students complete a major research project on issues and ethics. This includes discussion of current events, of course, but through the prism of a systematic study of applied ethics. This class focuses on the "why" of journalism and creative media.  
Prerequisite(s): JCM 331  
Prerequisite(s) with concurrency: MC 401

JCM494 Global Media Systems  
Hours 3
The way media are produced and consumed by audiences is influenced by the different cultures, politics and economics of particular countries, by global economic systems, by political and economic relationships across countries, by growing "cosmopolitan" sameness, and by changing technologies. Students will explore these global trends, and how media systems work in particular countries and in particular industries. Comparisons of media across different cultural and political-economic contexts, media production techniques, and various norms and values of professional media workers will be discussed along with theories that explain why we such variety exists.  
Prerequisite(s): MC 101; JCM 100;

JCM496 Issues and Ethics in Sports Journalism  
Hours 3
The purpose of this class is to examine the social, political, economic and historical significance of the intersection of sports, media and culture, with an emphasis on ethical decision-making.  
Prerequisite(s): JCM 325 or JCM 425  
Prerequisite(s) with concurrency: MC 401

JCM498 Capstone Digital Media Workshop  
Hours 3
In this workshop, we will experiment with different forms of digital media. Each student will produce three main projects using text, photos, video and other visuals, along with research.  
Prerequisite(s): JCM 303 and JCM 331

JCM499 Capstone News Portfolio  
Hours 3
Practical application of Journalism and Creative Media competencies, with an emphasis on preparing a career portfolio. Topics will include skills, such as news production, and concepts, such as critical studies in media. This course will enhance these skills and concepts, and introduce new ones.  
Prerequisite(s): JCM 333 and JCM 340

MC101 Intro To Mass Communic  
SB  
Hours 3
Introduction to the fields of communication, including theory, law and regulation, history, social implications, and mass media operations.  
Social and Behavioral Sciences

MC401 Mass Comm Law & Regultn  
Hours 3
Study of laws and regulations affecting the mass media and the fields of mass communication. May be taken for graduate credit.  
Prerequisite(s): MC 101 with minimum C-; 61 or more hours; GPA 2.0 or better

MC407 Mass Communic Research  
Hours 3
Overview and application of the methods used in quantitative and qualitative mass communication research.  
Prerequisite(s): MC 101

MC409 History Mass Communctn  
W  
Hours 3
Study of the historical development of mass communication. May be taken for graduate credit. Writing proficiency in this discipline is required for passing this W-designated course.  
Prerequisite(s): MC 101  
Writing

MC413 Mass Communication, Service & Diversity  
W  
Hours 3
In this service-learning designated class, students study and analyze mass communication issues of diversity as they relate to groups in society. Students work with area partners on projects related to reaching diverse, mass audiences. Writing proficiency in this discipline is required for passing this W-designated course.  
Prerequisite(s): MC 101  
Writing
MC421 Political Communication

W

Hours 3

The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communications. Writing proficiency in this discipline is a requirement for passing this W-designated course.

Prerequisite(s): MC 101

Writing

MC425 Media Management

W

Hours 3

The structure and function of media organizations. The decision-making processes inherent in running complex media businesses. Effective leadership styles. Traditional marketing perspectives applied to media. Laws and regulations that affect media management. Writing proficiency in this discipline is required and must be demonstrated in order to pass this W-designated course.

Prerequisite(s): MC 101

Writing

MC426 Race, Gender and Media

Hours 3

This discussion-oriented class examines the mass media through the lenses of race, ethnicity and gender. The course helps future media practitioners be aware of their roles in creating content that reflects increasingly multicultural audiences. Using current, contemporary and classic media texts, students critically analyze media messages and understand the importance of a diverse workforce.

Prerequisite(s): MC 101 and 61 hours

MC495 Special Topics

Hours 3

Special topics in mass communication theory and research. May be taken for graduate credit.

Prerequisite(s): MC 101

BCE101 Freshman Compass: UA

FCMP

Hours 2

This course for first-year UA students provides an introduction to the nature of higher education and to the function, resources, and activities of The University of Alabama. This course is designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for degree attainment.

Freshman Compass

BCE301 Introduction To Counseling

Hours 3

A survey course featuring a comprehensive examination of the history, functions, and related issues for the practice of counseling in school, agency, and rehabilitation settings.

BEP110 Intro Learning Strateg Skills

Hours 3

Provides students with a theoretical and practical understanding of the importance and use of specific learning strategies. This course will also engage students in reflective decision making and critical evaluation of their learning process.

BEP305 Educational Psychology

Hours 3

Covers the psychological principles basic to an understanding of the learner, the learning process, and the learning situation.

Prerequisite(s): PY 101 or HD 101 or PY 105

BEP360 Social Psychol Foundtns Educ

Hours 3

An examination of the social, psychological, philosophical, and historical foundations of education in a modern democratic society. Critical attention is paid to contrasting theories of human nature, the learner and the learning process that, when combined with judgments about the purpose and conduct of life, have shaped pedagogy.

Prerequisite(s): PY 101 or HD 101 or PY 105

BEP410 Academic Mentoring

Hours 1-6

Introduction to academic mentoring is a service learning and leadership course. Students mentor K-12 school students in academic subjects. Class readings and discussions support the mentoring relationship by focusing on learning, motivation, metacognition, listening, personality, and the social contexts of schooling.

BER345 Educational Statistics

Hours 3

Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

BER450 Assess Of Classrm Learng

Hours 3

Survey of teacher-made and standardized instruments for understanding students? achievement and evaluating teaching. Field practicum in the schools is required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT100</td>
<td>Computer Concepts &amp; Application</td>
<td>3</td>
<td>Fundamentals of computer use in education, including software applications, keyboard functions, peripherals, utilities, and software.</td>
<td></td>
</tr>
<tr>
<td>CAT200</td>
<td>Computer Education Application</td>
<td>3</td>
<td>Introduces computer applications relating to problem solving, critical thinking, instruction, data management and Web page development. Computing proficiency is required for a passing grade in this course.</td>
<td>Prerequisite(s): CS 102 or CAT 100 or CS 102 Placement Test (PLCS) with a minimum score of 380.</td>
</tr>
<tr>
<td>CAT250</td>
<td>Computer Educ Curric Devel</td>
<td>3</td>
<td>Utilizing computer technology and computer applications in instruction. Computing proficiency is required for a passing grade in this course.</td>
<td>Prerequisite(s): CAT 200</td>
</tr>
</tbody>
</table>
| CEE304      | Teach Elem School Scienc                         | 3     | Teaching experiences related to K-6 children’s learning of science, with emphasis on teaching strategies that use inquiry approaches. Admission to Teacher Education Program is required. | Prerequisite(s): CEE 370 with a minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 366 and CEE 401 and CEE 478 and CEE 496 and BER 450 |
| CEE320      | Survey Elementary Eductn                         | 3     | Surveys elementary education as a professional career. Students become acquainted with factors affecting successful teaching in the elementary school. | Prerequisite(s) with concurrency: CEE 491, CRD 369                           |
| CEE365      | Literature For Children                          | 3     | Selection and teaching of literature for elementary school children at various developmental levels, according to interests, needs, and abilities. Intensive field experience. Admission to Teacher Education Program is required. | Prerequisite(s): CEE 491 with a minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 370 and CEE 380 and CEE 401 and CEE 495 and KIN 364 |
| CEE366      | Teaching Social Sciences                         | 3     | The nature of elementary school social studies, the resource unit, kinds of materials, teaching procedures, and the evaluation of learning. Intensive field experience. Admission to Teacher Education Program is required. | Prerequisite(s): CEE 495, CEE 370, CEE 380 with a minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 304 and CEE 401 and CEE 478 and CEE 496 and BER 450 |
| CEE370      | Teaching Reading Elem School                     | 3     | Materials and methods in the teaching of reading, with emphasis on assessment-based instruction and planning a balanced program. Intensive field experience. Writing proficiency within this discipline is required for a passing grade in this course. Admission to Teacher Education Program is required. | Prerequisite(s): CEE 320, CEE 491, CRD 369, and MUE 385  
Prerequisite(s) with concurrency: CEE 365, CEE 380, CEE 401, CEE 495, and KIN 364 |
| CEE380      | Teaching Elem Math                               | 3     | Teaching experiences related to children’s developmental learning of elementary mathematics, with emphasis on teaching strategies, manipulatives, and other materials useful in teaching content. Intensive field experience. Admission to Teacher Education Program is required. | Prerequisite(s): CEE 491 with a minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 365, CEE 370, CEE 401, CEE 495, and KIN 364 |
| CEE401      | Managing Effective Classrooms                   | 1-6    | This course is designed to teach students the principles and theory of classroom management. Emphasis will be placed on the design and implementation of classroom management methods and techniques. | Prerequisite(s): Admission to Teacher Education Program                      |
| CEE478      | Teach Lang Arts In Elem School                   | 3     | Deepening understanding of the materials and methods for teaching of language arts with emphasis on planning and implementing a writing program. Intensive field experience. Writing proficiency within this discipline is required for a passing grade in this course. Admission to Teacher Education Program is required. | Prerequisite(s): CEE 495, CEE 370, CEE 380 with a minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 304 and CEE 366 and CEE 401 and CEE 496 and BER 450 |
CEE491 Early Childhood Curr. & Inst.  
Hours 3  
A foundation in the materials and methods for teaching in early childhood classrooms with an emphasis on child development, assessment, and instruction. Completion of Professional Semester II courses required.  
Prerequisite(s) with concurrency: CEE 320, CRD 369, and MUE 385

CEE495 Practicum  
Hours 3  
Open only to students in professional semester II of the elementary education program. This course offers students significant clinical experience and opportunities to plan and teach lessons. Admission to Teacher Education Program is required.  
Prerequisite(s): CEE 491 with minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 365, CEE 370, CEE 380, CEE 401, KIN 364

CEE496 Senior Practicum  
Hours 3  
A field-based course providing opportunities to practice authentic classroom application of various subject areas in elementary education. Admission to Teacher Education Program is required.  
Prerequisite(s): CEE 370 with a minimum passing grade of C-  
Prerequisite(s) with concurrency: CEE 304, CEE 366, CEE 401, CEE 478, and BER 450

CEE497 Internship Elem School  
Hours 4.5-7.5  
Observation, participation, and teaching experiences supervised by selected cooperating teachers in public elementary schools. Additional supervision is provided by College of Education personnel. Offered fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experiences. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings. Admission to Teacher Education Program is required.  
Prerequisite(s): CEE 401, CEE 366, CEE 478, CEE 496 with a minimum passing grade of C-

CIE497 Intern Foreign Lang Educ  
Hours 3-12  
Observation and teaching of the major subject in an elementary and secondary school. Offered in the fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.  
Prerequisite(s): Admission to Teacher Education Program

CIE499 Special Topics in Early Childhood, Elementary, and/or Secondary Education  
Hours 1-6  
This course, offered on campus or abroad, provides opportunities to engage with topics or projects of collective concern in early childhood, elementary, and/or secondary education. Topics vary. May be repeated. Offered according to demand.  
Prerequisite(s): Permission of instructor

CRD369 Foundations of Reading Instruction for Early Childhood and Elementary Children  
Hours 3  
Introduction to literacy development, instruction, and assessment for elementary school children. Foundational concepts of literacy instruction and best-practice are covered. A field component is required.

CRD400 Teach Readg Diverse Learn K-12  
Hours 3  
A foundation in the materials and methods for teaching of reading and language arts K-12, with emphasis on intervention programs, assessment, and instruction for individual and small groups of students. Intensive field experience is required.

CRD412 Impr Read Second Schools W  
Hours 3  
Study of methods and strategies for teaching reading at the secondary and junior-college levels. Methods of teaching word attack and comprehension skills are emphasized. Diagnostic techniques, study skills, and teaching reading in the content areas are also covered. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): Admission to Teacher Education Program  
Writing

CSE390 Instructn Accomd Sec Sch  
Hours 3  
The course focuses on evaluating teaching and learning behaviors and on general teaching competencies.  
Prerequisite(s) with concurrency: CSE 493, and BEP 360 or BEF 360
CSE401 Tech for Teaching Sec. Math
C
Hours 3
Examines and explores various existing and emerging classroom
technologies for specifically teaching secondary mathematics topics
including but not limited to spreadsheets, hand-held & computer graphing
technologies, dynamic geometry software, computer algebra systems
and data collection devices. Fall only. Computing proficiency is required
for a passing grade in this course.
Prerequisite(s): C- or better in MATH 227 and ST 260 CS 102 or CSE 390
Prerequisite(s) with concurrency: MATH 403
Computer Science

CSE406 Curriculm Secondary Math
Hours 3
Future secondary mathematics teachers examine advanced concepts,
structures, and procedures that comprise secondary mathematics.
This course focuses on current issues and trends in the curriculum,
teaching, and learning of secondary mathematics with emphasis on
the investigation and implementation of current reform efforts. Offered
spring semester only. Admission to Teacher Education Program is
required.
Prerequisite(s): C- or better in CSE 401 Admission to Teacher Education
Program

CSE455 Adolescent Literature
Hours 3
Study of contemporary literature for young adults, with emphasis on high-
interest and high-quality literature from diverse authors.

CSE469 Pedagogical Grammar
Hours 3
This is a practical course intended to enhance the student's
understanding of the structure of the English language. The course is
designed to encourage a thorough study of grammar and its role in the
English language arts curriculum, to explore the psycholinguistic nature
of language processes, and to develop methods of instruction for the
classroom.

CSE470 Teaching Writing 6-12
Hours 3
This course is designed to prepare prospective English teachers to
successfully teach and evaluate writing in grades 6-12.

CSE476 Improving Science Teaching
C
Hours 3
Examination and evaluation of appropriate technologies for the
secondary science curriculum. Technologies will include CD-ROM and
Internet-based simulations and databases, Web pages and other Internet
resources, multimedia presentations, and calculator-based laboratories.
Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CSE 390
Prerequisite(s) with concurrency: BER 450, CRD 412, CSE 489, CSE 486
Computer Science

CSE479 Teach Second Sch English
C, W
Hours 3
Methods and media essential to effective instruction of English in the
secondary school. Admission to Teacher Education Program is required.
Prerequisite(s): CS 102 or CSE 390
Prerequisite(s) with concurrency: CSE 489, CRD 412, and BER 450
Computer Science, Writing

CSE480 Teach Sec Sch Forgn Lang
W
Hours 3
Theories, methods, techniques, and essential media for teaching foreign
languages effectively in the secondary school. Offered fall semester only.
Writing proficiency within this discipline is required for a passing grade in
this course. Admission to Teacher Education Program is required.
Prerequisite(s) with concurrency: CSE 489, CRD 412, BER 450
Writing

CSE483 Teach Second School Math
W
Hours 3
The course presents primarily methods and instructional strategies of
teaching mathematics, but necessarily includes a study of selected
topics in mathematics. Offered fall semester only. Writing proficiency
within this discipline is required for a passing grade in this course.
Admission to Teacher Education Program is required.
Prerequisite(s): CSE 406 with a minimum passing grade of C-
Prerequisite(s) with concurrency: CSE 489, CRD 412, BER 450
Writing

CSE485 Teaching Inquiry in Secondary Social Studies
Hours 3
This course is designed to assist students’ understanding of and
application of powerful, inquiry-based strategies to the design of
meaningful 21st century social studies instruction and assessment.
Prerequisite(s): TEP

CSE486 Teach Second Sch Science
W
Hours 3
Instructional strategies and media essential to effective learning of
science in the secondary school. Content includes objectives, inquiry
teaching, analysis of curricula, assessment, teaching for diversity,
science-thinking skills, unit planning, and laboratory management.
Offered only fall semester. Writing proficiency within this discipline
is required for a passing grade in this course. Admission to Teacher
Education Program is required.
Prerequisite(s): None. Corequisite: CSE 489
Writing
CSE487 Teach Second Soc Science
C, W
Hours 3
This course will use a reflective teaching model for examining the history, issues, and contemporary practices related to teaching middle- and high-school social science. Computing proficiency is required for a passing grade in this course. Writing proficiency within the discipline is required for a passing grade in this course. Admission to Teacher Education Program is required.
Prerequisite(s): CS 102, or CSE 390 with a minimum passing grade of C-
Prerequisite(s) with concurrency: BER 450 and CRD 412 and CSE 489
Computer Science, Writing

CSE489 Clinic Exper Second School
C
Hours 3
Observation and participation experiences in secondary schools. Computing proficiency is required for a passing grade in this course. Admission to Teacher Education Program is required.
Prerequisite(s): CS 102 OR CSE 390 Admission to Teacher Education Program
Prerequisite(s) with concurrency: Appropriate methods course
Computer Science

CSE493 Diversity Block Seminar
Hours 1-3
A reflective teaching model will be used to explore differences in race, class, gender, and academic achievement as they affect classroom interaction and academic success.
Prerequisite(s) with concurrency: CSE 390

CSE497 Sec School Teaching
Hours 3-12
Observation and teaching of the major subject in the secondary school. Admission to Teacher Education Program is required.
Prerequisite(s): CSE 480 or CSE 476 or CSE 483 or CSE 487 or CSE 479 with a minimum passing grade of C-

EDU100 Role of Education in a Diverse Society
SB
Hours 3
This course will explore the role of education in society. Students will examine historical and contemporary issues of education in society as well as with teaching, learning, curriculum, and reform.
Prerequisite(s): Students must be an Early College student with good standing.
Social and Behavioral Sciences

EDU200 Orient to Teacher Education
Hours 1
This course is designed to prepare prospective candidates with the necessary prerequisite knowledge required for success in TEP.

EDU400 Internship Seminar
Hours 1
This seminar course serves as a support mechanism to facilitate reflection and performance assessment through regularly scheduled seminars during teacher internship. Class activities involving lecture, group discussions, portfolio development, and successful completion of a culminating teacher performance assessment will be used to facilitate professional development.
Prerequisite(s): Meet all qualifications for Teacher Internship

EDU401 Dyn. of American Ed: Honors
UH
Hours 3
The purpose of the course is to provide an introduction to the foundational and curricular components of education. Students will analyze key socio-cultural, academic, political and economic issues and examine the role of the teacher, student and community member in American education.
University Honors

EDU402 Honors Educational Diversity and Advocacy
UH
Hours 3
This course examines differences and diversity of students in education through the exploration of ethnicity, disability, gender and class. The course develops knowledge and tools for advocacy through an understanding of relevant law and experience through service.
University Honors

EDU403 Honors Educational Policy
UH
Hours 3
This course traces the development of educational policy through the history of educational reform from the Common School Movement to the development of No Child Left Behind and its evolution to the present time. Readings and discussion will analyze the development of policy in the context of social, political, legal and institutional contributions to the purposes of public education from diverse viewpoints.
University Honors

EDU410 Honors Educational Studies Seminar
UH
Hours 3
The purpose of this seminar is to facilitate students as educational researchers and advocates. Students will integrate what they have learned in the program to conduct research around a problem they will identify.
Prerequisite(s): EDU 401 and EDU 403
Prerequisite(s) with concurrency: EDU 402
University Honors
EDU450 Patterson Scholars Seminar
Hours 0
This course provides a framework for Patterson scholars to achieve the requirements of their receipt of funds. They are required to engage in learning about teaching reading and to report regularly to Mr. James Patterson.

KIN101 Physical Conditioning
Hours 1
The purpose of this course is to introduce the student to the knowledge base underlying proper physical conditioning of the body and appropriate techniques for participation.

KIN102 Horseback Riding
Hours 1-3
The purpose of this course is to provide students with the knowledge and skills needed to participate in horseback riding.

KIN103 Soccer
Hours 1
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of soccer.

KIN104 Basketball
Hours 1
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in basketball.

KIN105 Softball
Hours 1
The purpose of this course is to provide the student with the knowledge and skills necessary for skilled participation in the sport of softball.

KIN106 Beginning Golf
Hours 1
The purpose of this course is to provide students with the knowledge and skills to participate in a basic game of golf.

KIN107 Intermediate Golf
Hours 1
The purpose of this course is to provide students with the knowledge and skills necessary to participate at an intermediate level in the game of golf.

KIN108 Beginning Tennis
Hours 1
The purpose of this course is to provide students with the necessary knowledge and skills to motivate participation in tennis.

KIN109 Indoor Rock Climbing
Hours 1
The purpose of this course is to help students understand and demonstrate proper risk management and safety techniques, as well as proper technical skills, in order to safely enjoy the activity of indoor rock climbing.

KIN113 Introduction to Paralympic Sport
Hours 1
This course will introduce students to a variety of adapted sports. The sports covered will vary based on participants and available equipment. Example of sports which may be played or reviewed are wheelchair basketball, sitting volleyball, goalball, beep baseball, wheelchair tennis, rowing, golf, boccia, and table tennis. This class will be activity based with some lecture.

KIN117 Volleyball
Hours 1
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in volleyball.

KIN120 Aerobics
Hours 1
This course makes available three different types of aerobics: dance, water, and spinning. Each section is designed to enhance cardiorespiratory fitness through the medium of aerobic dance, aquatic activity, or cycling. The aerobic activity should be selected by section number.

KIN121 Beginning Social Dance
Hours 1
The purpose of this course is to introduce the student to the basic dances that are performed in a social situation.

KIN131 Beginning Swimming
Hours 1
The purpose of this course is to provide students with the knowledge and skills necessary for participation in basic aquatic activities.

KIN132 Intermediate Swimming
Hours 1
The purpose of this course is to provide students with the knowledge and skills necessary for participation in more advanced aquatic activities.

KIN138 Lifeguarding
Hours 3
The purpose of this course is to prepare the student both mentally and physically to supervise, coordinate, and successfully control an aquatic emergency.

KIN140 Water Safety Instruct
Hours 3
The purpose of this course is to provide knowledge of water safety instruction so that the student will be able to instruct groups and individuals in this discipline.

KIN145 Beginning Racquetball
Hours 1
The purpose of this course is to provide students with the knowledge and skills necessary to participate in the game of racquetball.

KIN155 Self Defense for Women
Hours 1
The purpose of this course is to provide the student with the knowledge and skills that will enhance the student's ability to defend herself in case of physical or sexual assault as well as to enhance her overall personal safety.
KIN157 Beg Weight Training
Hours 1
The purpose of this course is to provide students with the knowledge and skills necessary to design and follow a basic weight-training program.

KIN167 Running
Hours 1
The purpose of this course is to provide the student with the knowledge and skills necessary to design and follow a basic running program.

KIN170 Beginning Karate
Hours 1
The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of karate.

KIN199 Ecol Appr Hlth & Fitness
Hours 3
This introductory course examines the basis for and interrelationships among the six aspects of wellness: social, physical, emotional, intellectual, spiritual, and environmental. The course addresses issues of physical fitness, wellness, and personal safety applicable to the college age group.

KIN200 Weight Mgt Principles
Hours 3
This course is designed around successful weight management concepts and pitfalls. Topics include physical activity, behavior, and lifestyle modification. Hands-on activities include measures of daily energy expenditure, personal fitness, target body weight, and development of a personalized exercise plan.

KIN300 Intro to Kinesiology
Hours 3
A critical analysis of socio-cultural issues of the body throughout history and an in-depth study of physical education, fitness, and sport programs and professions.

KIN305 Dance & Gymnastics
Hours 2
The purpose of this course is to improve students' performance and knowledge of skills and strategies in gymnastics and dance and to acquaint them with effective teaching behaviors appropriate for these activities.
Prerequisite(s): None. Corequisites: KIN 350 and KIN 351

KIN306 Analysis Teaching Movement I
Hours 3
The purpose of this course is to improve students' performance and knowledge of skills and strategies in invasion, striking/fielding and target games, and acquaint them with effective teaching behaviors appropriate for these same types.
Prerequisite(s) with concurrency: KIN 307, KIN 310, KIN 360, KIN 361

KIN307 Teach Trk & Fld/Net Game
Hours 2
The purpose of this course is to improve students' performance and knowledge of skills and strategies in track and field and net/wall games, and acquaint them with effective teaching behaviors appropriate for these activities.

KIN310 Teaching Swimming
Hours 2
The purpose of this course is to improve students' swimming skills and knowledge of water safety and to acquaint them with effective teaching behaviors appropriate for this activity.

KIN311 Tch Hlth Related Fitness
Hours 1
The purpose of this course is to improve students' knowledge of the basic principles of health-related fitness and acquaint them with effective teaching behaviors appropriate for fitness instruction.

KIN350 Secondary Curriculum
Hours 3
The purpose of this course is to provide students with knowledge of current curricular and instructional practices for secondary physical education programming.
Prerequisite(s): None. Corequisites: KIN 305 and KIN 351

KIN351 Secondary Clinical Experience
Hours 3
The purpose of this course is to provide students with the opportunity to teach secondary students in a public school setting.
Prerequisite(s): None. Corequisites: KIN 305 and KIN 350.

KIN352 Psychology of Coaching
Hours 3
This course is designed to introduce students to the psychology of coaching.

KIN360 Subj Matter Elem Physical Educ
Hours 3
Provides knowledge of subject matter for elementary physical education and a comprehensive K-5 curriculum. Concurrent enrollment in KIN 361 is required.
Prerequisite(s): KIN 305, KIN 350, KIN 351
Prerequisite(s) with concurrency: KIN 361

KIN361 Elem Phys Ed Curr Phil Theory W
Hours 3
This course is designed to help students improve their abilities to teach elementary physical education and to plan and reflect on lessons, units and a comprehensive K-5 curriculum. This course must be taken concurrently with KIN 360.
Prerequisite(s): KIN 305, KIN 350, KIN 351
Prerequisite(s) with concurrency: KIN 360

Writing

KIN362 Motor Development
Hours 3
Study of growth in phylogenetic and ontogenetic sequence, and the motor development sequence across the lifespan; integration of movement skill and knowledge development. A field experience is required.
KIN364 P E Elem Sch Elem Ed Maj
Hours 3
This course is designed to provide students with knowledge of current curricular and instructional practices in elementary physical education and to provide them with opportunities to practice-teach in a public-school setting.
Prerequisite(s): CEE 491 with a minimum passing grade of C-
Prerequisite(s) with concurrency: CEE 365 and CEE 370 and CEE 380 and CEE 401 and CEE 495

KIN365 Applied Biomechanics
Hours 3
Review of basic anatomy, especially the muscular system, and examination of the relationship of fundamental laws of physics to human movement. Includes mechanical principles of skill instruction and analysis.
Prerequisite(s): BSC 215 or BSC 216

KIN366 Evaluation and Measurement
Hours 3
Study of the administration and evaluation of test batteries in physical education, fitness management, and personal training.

KIN370 Coaching Soccer
Hours 3
This course is designed to provide students with the skills and knowledge to coach the game of soccer.

KIN380 Coaching Officials
Hours 3
The purpose of this course is to help students understand and demonstrate various aspects of sports officiating. To convey knowledge of basic rules in specific sport activities and also gain experience teaching sport rules to perspective officials.

KIN381 Coaching Football
Hours 3
This course is designed to provide students with the skills and knowledge to coach football.

KIN382 Coaching Basketball
Hours 3
This course is designed to provide students with the skills and knowledge to coach the game of basketball.

KIN383 Coaching Baseball
Hours 3
This course is designed to provide students with the skills and knowledge to coach the game of baseball.

KIN385 Coaching Golf
Hours 3
This course is designed to provide students with the skills and knowledge to coach the sport of golf.

KIN386 Coaching Volleyball
Hours 3
This course is designed to provide students with the skills and knowledge to coach the game of volleyball.

KIN387 Adapted Sports Professional Development
Hours 1-3
Supervised professional experience in a fitness or related setting; observation and participation under the direction of a professional at the site.

KIN388 Professional Development in Fitness
Hours 3
In addition to supervised professional experience in fitness through observation/participation under the direction of a professional within the community, students will learn valuable professional development tools such as writing a resume, cover letter, and thank you letter, as well as preparing for a professional interview.

KIN401 Sport Administration: Principles and Practice
Hours 3
This course provides an overview of the sport industry, and helps orient students to the field of sport administration. Sport administration content areas discussed in detail include the history of sport administration, and how management principles relating to organizational behavior, leadership styles, finance, facility and event management, media relations, and sports broadcasting are applied. Contemporary trends in professional, intercollegiate, interscholastic, and international athletics will be discussed.

KIN402 Sport Marketing
Hours 3
This course examines sport marketing and sport consumer behavior. All aspects of a sound sport marketing plan will be addressed in addition to contemporary trends that effect sport marketing efforts.

KIN403 Legal Issues in Sport
Hours 3
An analysis of legal issues affecting the delivery of sport services focusing on liability in sport activities and the recognition of social problems in American sport.

KIN404 Financial Issues in Sport
Hours 3
This course is designed to provide students with an introduction to financial analysis and budgeting techniques essential for tracking an organization’s revenues and expenses.

KIN405 Sports Management: Trends and Issues
Hours 3
This course is designed to provide students with an opportunity to engage with, explore, and immerse themselves in the extant contemporary literature relating to trends and issues in interscholastic and intercollegiate athletics, as well as youth, professional sports and recreation.

KIN420 Issues in Athletics Coaching
Hours 3
This course is designed to examine current issues, controversies, trends, and problems in the field of coaching.

KIN464 Admin Phys Educ & Sport
Hours 3
Organization and administration of health, physical education, and athletic programs for elementary and secondary schools.
KIN468 Adapted Physical Education  
W  
Hours 3  
The course includes basic information on disability sport and physical education programs; roles of various service agencies and organizations; state and federal legislation; and inclusion strategies. A clinical experience is required. Writing proficiency within this discipline is required for a passing grade in this course.  
Writing  

KIN486 Internships-Disability Sport  
Hours 3-12  
Directed internship in an area of specialization, completed in cooperation with a community agency or business, clinical, or other appropriate organization. Observation and on-the-job experience through direct participation in ongoing programs.  

KIN487 Physical Educ Teach Pract  
Hours 3  
This course is designed to provide students with the knowledge and skills to implement additional curricular models at both the elementary- and secondary-school levels. Admission to Teacher Education Program is required.  
Prerequisite(s): KIN 305, KIN 306, KIN 307, KIN 310, KIN 350, KIN 351, KIN 360, KIN 361, KIN 366  

KIN488 Internships-Fitness  
Hours 1-12  
Directed internship in an area of specialization, completed in cooperation with a community agency or business, clinical, or other appropriate organization. Observation and on-the-job experience through direct participation in ongoing programs.  

KIN491 Sport Exercise & Social Scienc  
W  
Hours 3  
This course explores the major issues that occupy social sciences involved in the study of sport and exercise. Writing proficiency within this discipline is required for a passing grade in this course.  
Writing  

KIN492 Physiology of Exercise  
Hours 3  
This course examines the human physiological response to exercise.  
Prerequisite(s): BSC 215 or BSC 216  

KIN493 Fit Apprsl Exer Prescrip  
Hours 3  
A study of the application of exercise testing and prescription principles to apparently healthy and diseased populations. Successful leadership, programming, and management principles for fitness settings will also be examined.  
Prerequisite(s): KIN 492  

KIN494 Scientific Principles of Strength and Conditioning  
Hours 3  
This course is designed to provide a comprehensive overview of strength and conditioning. Emphasis is placed on the exercise sciences (including anatomy, exercise physiology, and biomechanics) and nutrition, exercise technique, program design, organization and administration, and testing and evaluation. The course is designed to prepare students for the nationally accredited CSCS certification exam.  

KIN496 Independent Study  
Hours 1-6  
The purpose of this course is to provide the student an opportunity to further develop their skills/knowledge/instructional techniques in the area of kinesiology.  

KIN497 Internship Phys Education  
Hours 3-12  
Prerequisites: Senior standing and admission to the Teacher Education Program, KIN 350, KIN 351, KIN 360, KIN 361, KIN 487, a minimum GPA of 2.5 for all work attempted, and a minimum GPA of 2.5 in the major. Full-time supervised teaching experience in elementary and secondary schools. Includes a weekly one-hour seminar. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.  
Prerequisite(s): KIN 306 and KIN 364 with a minimum passing grade of C-  

MAP301 Professionalism  
Hours 3  
This course is designed as a developmental sequence of integrated themes covering historical foundations of education, educational finance, legal and ethical issues, contemporary issues, and fundamental technology concepts and integrated with MAP 302, MAP 403, MAP 404 and MAP 405.  
Prerequisite(s): Admission to the Multiple Abilities Program  

MAP302 Professionalism  
Hours 3  
This course continues the developmental sequence of integrated themes from MAP 301. The underpinnings of various school reform efforts and their potential effects on classroom practices are a central focus of the course.  

MAP311 The Learner  
Hours 3  
Integrated with MAP 312, MAP 413, MAP 414, MAP 415, this course is a developmental sequence covering concepts of human development, language development, literacy acquisition, and multiculturalism. A central theme is the development of skill in observing children and understanding their behavior from a developmental perspective. Group projects, independent study, observation, assigned readings, and field activities are part of the course.  
Prerequisite(s): Admission to the Multiple Abilities Program
MAP312 The Learner
Hours 3
Integrated with MAP 311, MAP 413, MAP 414, MAP 415, this course is designed as an integrated, developmental sequence covering human development, language development, literacy acquisition, and multiculturalism, as well as concepts of assessment of the learner. The course includes group projects, independent study, observation, assigned readings, and field activities.

MAP321 Communicatn/Collaboratn
C
Hours 3
Integrated with MAP 322, MAP 423, MAP 424, MAP 425, this course introduces concepts of cooperative partnerships in school and between home and school as a vehicle for quality educational experiences. Topics include social functions of speech communication; verbal and nonverbal communication; and skills essential for professional communication. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MAP 311 and Admission to the Multiple Abilities Program

Computer Science

MAP322 Communicatn/Collaboratn
C
Hours 3
Integrated with MAP 321, MAP 424, MAP 425, and other MAP courses, this course further explores the concept of cooperative partnerships to ensure quality educational experiences for children whose needs vary widely (including those with learning and/or behavior disabilities). Skills essential for professional communication, especially those needed for effective collaboration, are a central theme of the course. Computing proficiency is required for a passing grade in this course.

Computer Science

MAP331 Facilitating Learning
W
Hours 3
By observing and participating in classrooms, students acquire understanding of pedagogies appropriate for young children. This course is closely related to other MAP "Facilitating Learning" title courses. This course introduces methods of instruction in math, science, literacy, art and social studies. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): Admission to the Multiple Abilities Program

Writing

MAP332 Facilitating Learning
W
Hours 3
Using observation and study, students in this course learn about effective instruction of children with diverse needs, including those with learning and/or behavior disabilities. The course covers teaching young children science, math, music, literacy (reading, writing, and language arts), and physical education. A central theme of this course (which is integrated with MAP 331, MAP 433, MAP 434, and MAP 435) is use of instructional tactics and strategies to ensure meaningful learning and empowerment of children. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

MAP341 Field Exper/Practicum
Hours 3
In this practicum, students complete observation-based research activities in a variety of general and special education classrooms. A variety of practicum experiences with emerging readers is required.
Prerequisite(s): Admission to the Multiple Abilities Program

MAP342 Field Exper/Practicum
Hours 3
This is the second MAP field experience, and it, too, is integrated with the MAP coursework that precedes and follows it. During the semester month-long practicum, students serve as apprentices in a mentoring teacher's classroom, engaging in co-planning and co-teaching lessons. They have a variety of practicum experiences with elementary students.

MAP403 Professionalism
Hours 2
This course extends the developmental themes of MAP 302 and is integrated with other MAP courses. Developing a "self as professional" perspective is a central theme of the course.

MAP404 Professionalism
Hours 3
This course extends developmental themes covered in previous "Professionalism" courses. Emphasis is on gathering and analyzing educational data and information in order to make classroom teaching more effective.

MAP405 Professionalism
Hours 3
This course extends developmental themes covered in previous "Professionalism" courses.

MAP413 The Learner
Hours 2
Integrated with MAP 311, MAP 312, MAP 414, MAP 415, and other courses in the MAP program, this course is an integrated, developmental sequence exploring child development during infancy and childhood, motivation theory, paradigms of educational psychology, and talent development.
MAP414 The Learner  
Hours 3  
The course is integrated with the rest of the MAP curriculum and teaches the theory and practice of the construction of tests for student assessment. Nonbiased assessment and placement of and intervention with culturally/socially/ economically diverse students are emphasized.

MAP415 The Learner  
Hours 3  
Building on previous MAP courses, this course develops a sophisticated understanding of human development, human learning and language acquisition, and the social context of all of these. Vygotsky's social learning theories and their practical implications for the multiple abilities classroom are a key focus.

MAP423 Communication And Collaboratn  
Hours 1  
Building on previous MAP courses, the course focuses on interpersonal skills needed to communicate effectively with parents through conferencing, notes/letters, and newsletters about curriculum topics, themes, classroom events and children's work.

MAP424 Communicatn/Collaboratn  
Hours 3  
Building on previous MAP courses, the course focuses on planning and conducting conferences to establish, communicate, and achieve the goals and essential characteristics of an educational program.

MAP425 Communication/Collaboration  
Hours 3  
Building on previous MAP courses, the course focuses on the use of social problem-solving skills: conflict resolution, anger diffusion, and crisis intervention.

MAP433 Facilitating Learning  
Hours 1  
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 434, and MAP 435. It concentrates on the employment of community resources and on presentation skills.

MAP434 Facilitating Learning  
Hours 2  
By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 433, and MAP 435. It concentrates on the integration and inclusion of exceptional children and children from diverse backgrounds in various classroom settings: planning for individual needs, modifying objectives and adapting curriculum materials, and personalizing instruction.

MAP435 Facilitating Learning  
Hours 2  
This course extends concepts of learning, classroom management, behavior modification, and individual behavior management. Emphasis is on using effective programs and interventions with children of diverse abilities to facilitate social and emotional growth and encourage appropriate behavior.

MAP443 Enrichment Workshop Practicum  
Hours 6  
This course concentrates on learning strategies and thinking skills, and how to integrate them in one's teaching throughout the instructional program. It explores how distinguishing the cognitive from the affective components of thinking skills can help pupils of all abilities to learn responsibility for the decision-making process and help them express their thoughts.

MAP444 Field Experience Spe Interns  
Hours 6  
This course begins as an apprenticeship with a mentoring teacher in a special education classroom. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting classroom instruction for pupils with mild learning and behavior disabilities.

MAP445 Field Experience Spe Internsh  
Hours 6  
This course begins as an apprenticeship with a mentoring teacher in an elementary general education classroom setting. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting the classroom instruction.

MUE107 Basic Skills In Music  
Hours 2  
Basic music-reading skills developed through singing and playing of instruments. The course is designed for the prospective elementary school teacher and is a prerequisite for MUE 385. Students with previous musical training may elect to demonstrate equivalent skills through testing.

MUE200 Intro to Music Education  
Hours 2  
Techniques associated with teaching music in the public schools. Development of classroom management skills and reflection on the role of the music educator in contemporary classrooms.

MUE251 Intro To Winds, Str, Per  
Hours 3  
Group instruction in and exposure to techniques for working with wind, string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation.

MUE252 Teach String/Percu Instr  
Hours 2  
Group instruction in and exposure to techniques of teaching and performing on string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation.

MUE350 Evaluatn Teaching Learning Mus  
Hours 3  
Survey of standardized instruments and evaluation techniques in music. Admission to Teacher Education Program is required. Prerequisite(s): MUE 389 with minimum grade of C-

MUE351 Tchg Flute Single Reeds  
Hours 3  
Instructional techniques and materials for teaching flute and single reeds.
MUE352 Teaching Double Reeds
Hours 1
Instructional techniques and materials for teaching oboe and bassoon.

MUE353 Teach Brass Instruments
Hours 2
Designed to provide the instrumental music education major with skills necessary to teach beginning, intermediate, and advanced students of brass wind instruments.

MUE354 Teaching Percussion II
Hours 1
Instructional techniques and materials for teaching intermediate and advanced players.

MUE380 Vocal Methods
Hours 2
Examination of vocal pedagogy, diction, and solo vocal literature appropriate for teaching students in a public-school setting.

MUE381 Vocal Methods Lab
Hours 1
Examination of the vocal instrument and teaching strategies for working with young voices.

MUE385 Tchg Music Elementary Schools
Hours 3
Music curriculum in elementary schools and methods and techniques of teaching music in various grades are covered.
Prerequisite(s): MUE 107

MUE387 Elem School Music Program
Hours 3
Comprehensive coverage of the music curriculum in the elementary school, including current methodologies. Teaching techniques and materials are demonstrated and applied in field experiences. Writing proficiency within this discipline is required for a passing grade in this course. Admission to a Teacher Education Program.
Prerequisite(s): MUE 389 with a minimum grade of C- Admission to a Teacher Education Program

MUE389 Clinical Experience In Mue
Hours 3
Campus- and field-based experiences in public-school music education at several levels. Microteaching and development of teaching techniques are included.

MUE497 Internship Music Educ
Hours 3-18
Full time supervised teaching experience in the area of specialization (instrumental or vocal).
Prerequisite(s): Undergraduate level MUA 499 and Undergraduate level MUA 299 with minimum grades of P. Undergraduate level MUS 447 or MUS 448 with minimum grade of C-.

SPE100 Except Lives in Society
SB
Hours 3
Introduction and overview for non-education majors regarding characteristics of diversity, exceptionalities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included. Through web-based readings/critiques, class lecture, and service learning opportunities, participants in this course will explore diverse populations from within the context of characteristics, issues and trends, cultural differences, and research. Offered fall and spring semesters.

Social and Behavioral Sciences

SPE300 Survey Spe Accomd Stratg
Hours 3
Characteristics of all exceptionalities, and educational and behavioral adaptations for exceptional children in the general education classroom. A practicum experience that acquaints students with exceptionalities is included. Offered each semester.

SPE302 Educatl Diagn Measurmt
W
Hours 3
Introduction to group and individual assessments used for evaluating student learning and for planning instruction. Emphasis is on appropriate test selection and use of results. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

SPE304 Instructional Strategies Spec Ed
W
Hours 3
Addresses curriculum planning and selection of instructional tasks, with emphasis on making decisions that facilitate learning in students with disabilities.
Prerequisite(s): Not applicable
Prerequisite(s) with concurrency: Completion of 36 hours of general core in accord with Alabama State Department of Education certification requirements.
Writing

SPE326 Instruct Sign Language
Hours 3
Introduction to the culture of the deaf community and to the sign language continuum, providing a knowledge base from which students can communicate with the deaf and hard of hearing in the school setting.

SPE371 Practicum in Early Intervention
Hours 1
Course will serve as a field experience with placements to compliment a general education PreK-3rd grade preparatory sequence during fall Junior terms. Contact hours will approximate 100 per semester contingent on assignments. Placements require registration and placement through Office of Field Experiences.
Prerequisite(s): SPE 304
Prerequisite(s) with concurrency: SPE 477
SPE372 Practicum II in Early Intervention
Hours 1
Course will serve as a field experience with placements to compliment special education (Birth-8 years) preparatory sequence spring Junior terms. Contact hours will approximate 100 per semester contingent on assignments. Placements require registration and placement through Office of Field Experiences.
Prerequisite(s): SPE 304
Prerequisite(s) with concurrency: SPE 478

SPE374 Working with Families of Children with Special Needs
W
Hours 3
How to work with families of children with special needs, including supporting them in assessment, intervention planning, and providing supports. Includes families' legal rights, determining their existing assets, determining their needs, using adult learning theory, and determining family outcomes. Writing proficiency within the discipline is required for a passing grade in this course.
Writing

SPE382 Teaching Thinking Skills
Hours 3
An overview of the dimensions of thinking skills with a focus on practical instructional techniques for special and regular education programs. Includes detailed training in models for teaching thinking skills that result in improved student and teacher thinking.

SPE414 Collaborative Consultatn
Hours 3
Examination of the ways in which individuals interact with educational systems, communities at large, and each other to bring about appropriate educational services for students with special educational needs. Included are fundamentals of group process, human behavior and interaction, and motivation, as well as skills and knowledge necessary for successful collaboration and consultation with others concerned with education of students who present exceptional needs.

SPE416 Instruct Strategy Severe Popul
Hours 3
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in education settings for children with severe disabilities. Emphasis is placed on educational programming, subject matter, professional responsibilities of teachers and related service personnel, curriculum development, physical management of children with severe disabilities, adaptation of materials and equipment, and modification of programs in varied settings (clinical, homebound, hospital, public schools).

SPE435 Behavior Management
Hours 3
The course addresses the development of models for managing behavior, to help teachers prevent or deal with emotional conflict in the classroom.

SPE471 Dev Persp Young Child W/ Disab
Hours 3
A course introducing the field of early childhood special education, including its rationale and legal issues. Offered fall semester.

SPE473 Practicum III in Early Intervention
Hours 1
Course will serve as a field experience with placements to compliment special education (birth-8 years) preparatory sequence fall Senior terms. Contact hours will approximate 100 per semester contingent on assignments. Placements require registration and placement through Office of Field Experiences.
Prerequisite(s): SPE 476 SPE 478
Prerequisite(s) with concurrency: SPE 416 and SPE 435

SPE476 Assessment Of Young Children
Hours 3
Basic principles and practices involved in the assessment and evaluation of young children. Offered spring semester.
Prerequisite(s): Admission to Teacher Education Program

SPE477 Differentiated Acad. Instruct
Hours 3
This course examines differentiated instructional methods using cross-content instructional examples. The course provides opportunities to develop knowledge and skills in lesson and unit planning, pedagogy, kinds of materials and evaluation of learning. Admission to Teacher Education Program is required.
Prerequisite(s): SPE 304 and SPE 471 or SPE 571; and SPE 476 or SPE 576 Admission to Teacher Education Program
Prerequisite(s) with concurrency: SPE 471

SPE478 Meth Teach Yng Child W/ Disb
Hours 3
Curriculum methodology materials and management technology for young children with disabilities.

SPE479 Intern In Early Childhood Spe
Hours 3-12
Fourteen week split internship providing supervised teaching experience in classrooms for young children. Offered spring and fall only. Application for internship must be made the semester prior to internship (excluding summer term) through Office of Educational Field Experience. Admission to Teacher Education Program is required.
Prerequisite(s): SPE 478 and SPE 476 and SPE 471 and SPE 374

SPE491 Educ Method Elem Mlbnd
Hours 3
Designed to develop skill in the use of curriculum, materials, and management strategies with elementary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program

SPE492 Educ Methods Second Mlbnd
Hours 3
Designed to develop skill in the use of curriculum, materials, and management strategies with secondary school students who have mild learning and behavior disabilities. Offered fall semester.
Prerequisite(s): Admission to Teacher Education Program
SPE493 Intro Severe/Profound Disabili
Hours 3
Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in educational settings for child/youth with severe/profound disabilities. Practicum required.

SPE499 Internship In Spe (Spco)
Hours 4.5-7.5
Fourteen-week split internship providing supervised teaching experience in elementary and secondary classrooms. Student teaching is only offered during the spring semester, unless written permission is secured from the department head. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.

Prerequisite(s): Admission to Teacher Education Program

College of Engineering Courses

AEM120 Aerospace Science For Educators

Hours 4
Students develop meaningful understanding and use of engineering and science knowledge and critical-thinking skills and come to appreciate engineering and science as part of the daily life of a scientifically literate professional.

Natural Science

AEM121 Introduction to Aerospace Engineering I

Hours 1
To survey aerospace history, discuss pertinent topics and introduce basic concepts that promote an understanding of aerospace engineering and the profession.

Prerequisite(s) with concurrency: MATH 125 and MATH 145

AEM201 Statics

Hours 3
The study of forces, couples and resultants of force systems; free-body diagrams; two- and three-dimensional equilibrium, and problems involving friction; and centroids, center of gravity, and distributed forces.

Prerequisite(s): MATH 125 or MATH 145; and PH 125 or PH 105 and ENGR 151 or ENGR 103

AEM249 Algorithm Devl Implementation

Hours 2
Algorithm development, numerical solution of engineering problems, and structured problem solving in C++.

Prerequisite(s) with concurrency: MATH 125 or MATH 145

AEM250 Mechanics Of Materials I

Hours 3
Concepts of stress and strain; analysis of stresses and deformation in bodies loaded by axial, torsional, and bending loads; combined loads analysis; statically indeterminate members; thermal stresses; columns; and thin-walled pressure vessels.

Prerequisite(s): MATH 126 or MATH 146 and AEM 201

AEM251 Mechanics Of Materials I Lab

Hours 1
Mechanical tests of metallic and nonmetallic materials in the elastic and inelastic ranges; use of materials testing for acceptance tests, for the determination of properties of materials, and for illustration of the validity of assumptions made in mechanics of materials.

Prerequisite(s) with concurrency: AEM 250

AEM264 Dynamics

Hours 3
Kinematics of particles and rigid bodies, Newton's laws of motion, and principles of work-energy and impulse-momentum for particles and rigid bodies.

Prerequisite(s): MATH 126 or MATH 146; and AEM 201

AEM311 Fluid Mechanics

Hours 3
Fluid statics, application of conservation laws to simple systems, dimensional analysis and similitude, and flow in open and closed conduits.

Prerequisite(s): MATH 227 or MATH 247; and AEM 201

AEM313 Aerodynamics

Hours 3
Introduction to subsonic aerodynamics, including properties of the atmosphere, aerodynamic characteristics of airfoils, wings, and other components; life and drag phenomena; and topics of current interest.

Prerequisite(s): AEM 311 and AEM 264

Prerequisite(s) with concurrency: MATH 238

AEM341 Aerospace Structures

Hours 3
Methods of analyzing stressed skin structures of the types that are typically found in aircraft, missiles and space vehicles. Unsymmetrical bending and bending and twisting of multiple cell structures are also covered.

Prerequisite(s): AEM 249 or CS 100 or RRS 101 or RRS 102, and AEM 250

AEM349 Applied Numerical Methods

Hours 3
Elements of analytical and numerical analysis with engineering applications including, but not limited to, differential equations, linear algebra, root-finding, Gaussian elimination, and Runge-Kutta integration.

Prerequisite(s): MATH 237 and MATH 238 and (AEM 249 or CS 100 or (RRS 101 and RRS 102))

Computer Science
AEM351 Aerospace Structures Laboratory
Hours 1
Strain gage mounting and bridge circuits analysis; strain measurement in axial, bending and torsional members resemble to aerospace structures using axial and rosette strain gages; stress measurements in wing structural subcomponents (skin, stiffener, spar, rib) under bending load using strain data; design, fabrication and testing of stiffened panel.
Prerequisite(s): AEM 341

AEM360 Astronautics
Hours 3
Survey of topics and basic concepts in astronautics: orbital mechanics, space environment, attitude determination & control, telecommunications, space structures, rocket propulsion, and spacecraft systems.
Prerequisite(s): MATH 238 and AEM 311

AEM368 Flight Mechanics
Hours 3
This course is a combination of aircraft performance and basic flight mechanics. It also includes the basics of the aerodynamic build-up of an aircraft to determine aerodynamic coefficients and the so-called stability and control derivatives. Except for takeoff and landing rolls, aircraft performance analyses entail analysis of steady flight conditions. Flight mechanics deals more with the trim and static stability of the aircraft for the steady flight conditions. Steady flight conditions are typically the starting point for small-perturbation dynamics and stability analyses.
Prerequisite(s): MATH 237 and MATH 238 and AEM 264 and AEM 311 and (AEM 249 or CS 100 or (RRS 101 and RRS 102))

AEM402 Integrated Aerospace Design I
W
Hours 3
Preliminary design techniques for an aerospace system. Writing proficiency within the discipline is required for a passing grade in this course.
Prerequisite(s): AEM 313 and AEM 341 and AEM 368 and AEM 413
Prerequisite(s) with concurrency: AEM 408
Writing

AEM404 Integrated Aerospace Design II
Hours 3
Preliminary and detailed design of aircraft or space vehicles, including weight and balance, power plant selection, exterior layout, performance, stability, and control. Involves group efforts on selected projects.
Prerequisite(s): AEM 402

AEM408 Propulsion Systems
Hours 3
Principles of air-breathing jet engines (turboshaft, turboprop, turbojet, ramjet, scramjet) and their applications, aircraft engine matching, introduction to rocket propulsion principles.
Prerequisite(s): AEM 413

AEM413 Compressible Flow
Hours 3
Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow and compressible flow over aerodynamic bodies.
Prerequisite(s): AEM 311 and ME 215

AEM414 Experimental Aerodynamics
Hours 3
This course provides a laboratory counterpart to concepts discussed in aerodynamics and fluid mechanics. Course topics include statistical and uncertainty analysis techniques, design of experiments, computer-based data-acquisition, sensors for fluid mechanic measurements, and aerodynamic measurement techniques and facilities.
Prerequisite(s): AEM 313

AEM415 Micro-Aerial Vehicles (MAVs)
Hours 3
This course surveys topics related to micro air vehicles (MAVs). These are small, flying vehicles generally classified by a maximum length of 15 cm. It is intended to be interdisciplinary in nature, involving seniors and first-year graduate students from different engineering academic departments.
Prerequisite(s): instructor approval

AEM416 Helicopter Theory
Hours 3
Critical examination of the propulsive airscrew, including induced velocity relations, flow patterns, and similarity. Practical applications are approached through existing theory and practice.
Prerequisite(s): MATH 238 and AEM 264 and AEM 311

AEM417 Aircraft Systems
Hours 3
The principal objective of this course is to establish, develop, and refine capability in the integrated analysis and interdependency of aircraft systems.

AEM420 Computational Fluid Dynamics
C
Hours 3
Introduction to basic mathematical concepts and engineering problems associated with numerical modeling of fluid systems. Application of the state of the art numerical models to engineering problems. Fundamentals of Finite Difference and Finite Volume Methods and their applications in fluid dynamics and heat transfer problems will be covered.
Prerequisite(s): AEM 311 and AEM 349 and MATH 238

AEM428 Space Propulsion
Hours 3
This course introduces the student to descriptions and analyses of space and launch-vehicle propulsion. Topics covered include advanced schemes such as nuclear, solar and laser propulsion; power cycles; and tether systems.
Prerequisite(s): AEM 408
AEM446 Intermediate Solid Mechanics
Hours 3
Introduction to 2-D plane elasticity, thick walled cylinders and spinning disks, bending and shear center of unsymmetric cross-sections, curved beams, beams on elastic foundations, torsion of non-circular cross-sections, thick-walled pressure vessels, and an introduction to the strain-life theory of metal fatigue.
Prerequisite(s): AEM 250 or consent of instructor

AEM448 Stochastic Mechanics
Hours 3
This course develops, analyzes and discusses the application of uncertainty quantification in engineering systems and design methodologies to include uncertainties in the systems. Topics include: classification of uncertainties and methods of quantification, perturbation approaches, polynomial chaos, sampling techniques, random processes and Bayesian analysis.
Prerequisite(s): GES 255

AEM451 Aircraft Structural Design
W
Hours 3
Design of tension, compression bending, torsion, and stiffened panel members; experimental and analytical investigations involving static and dynamic structural behavior. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 341
Writing

AEM452 Composite Materials
Hours 3
First exposure to composite materials. Focus on how heterogeneity/ anisotropy in composites influence thermomechanical behavior. The behavior of both continuous and short fiber reinforced composites will be emphasized. Stress analysis for design, manufacturing processes and test methods of composite materials will be covered.
Prerequisite(s): AEM 250 and AEM 341 or CE 331 or ME 350

AEM453 Multiscale Analysis of Advanced Composites
Hours 3
Concepts of multiscale analysis, nano-mechanics, micromechanics - principles of Analysis of heterogeneous systems, information transfer between multiple spatial and temporal scales, included atomistic-to-continuum coupling, continuum-to-continuum coupling, and temporal bridging.

AEM455 Nondestructive Evaluation
Hours 3
Fundamental theories, limitations and instrumentation of nondestructive test methods used for metal, polymer and composites materials. The ultrasonic, acoustic emission, vibration, thermography, eddy current, penetrant, and radiography methods are emphasized.
Prerequisite(s): MATH 238, and PH 105 or PH 125

AEM461 Computational Methods for Aerospace Structures
C
Hours 3
Development of the fundamentals of the finite-element method from matrix and energy methods. Use of the finite-element method for detailed design of aerospace structures. Modeling techniques for static and dynamic analyses.
Prerequisite(s): MATH 227 or MATH 247, AEM 341 and AEM 349

AEM468 Flight Dynamics & Control
C
Hours 3
Linear equations of motion, dynamic response, state-space methods and fundamentals of classical and modern control theory; flying and handling qualities design criteria; stability augmentation and control augmentation. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 249 and AEM 368

AEM469 Orbital Mechanics
Hours 3
Introduction to engineering application of celestial mechanics; high-speed, high-altitude aerodynamics; and other fields related to the contemporary problems of space vehicles. Fundamentals of applied dynamics, nomenclature of space flight, space environment and solar system, and two-body orbits. Kepler's laws, coordinate transformations, and related studies.
Prerequisite(s): MATH 238 and AEM 264

AEM470 Mechanical Vibrations
Hours 3
Free and forced vibrations, both undamped and damped. Systems with many degrees of freedom are formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): AEM 264 and MATH 238 and AEM 250

AEM471 Fundamentals Of Acoustics
Hours 3
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.
Prerequisite(s): MATH 238, and PH 106 or PH 126, and ECE 320

AEM474 Structural Dynamics
Hours 3
Theoretical foundations of structural dynamics and application of methods to modeling, analysis, and design.
Prerequisite(s): AEM 250 and AEM 264 and MATH 237 and MATH 238
AEM475 Fundamentals of Aeroelasticity  
Hours 3

Aeroelasticity deals with interactions between aerodynamic loads and elastic static and/or dynamic deformations, as well as the influence of the interactions on aircraft performance. The performance of interest may include stability of structures immersed in an airflow (e.g., divergence, buffeting, and flutter), rejection of external disturbances (e.g., gust alleviation), and controllability of flight vehicle trajectory (attitude or motion). Structural mass and stiffness are often tailored to change the aerodynamic load distributions on lifting surfaces. Aeroelasticity is not just fluid mechanics or solid mechanics. Its major emphasis is the fluid-structure interaction. This course focuses on understanding the phenomenology of aerodynamic and structural interactions, instead of the complicated modeling processes. The material is relatively self-contained as we will introduce concepts such as mass and stiffness matrices, shear centers, aerodynamic coefficients, and aerodynamic centers, and then build on these concepts. The students will have access to some simple models, which may become complicated when the fluid-structure interaction is considered. With the study in the class, the students will be able to analyze fundamental aeroelastic phenomena and solve the problem by using a numerical tool. Students should learn the concept of aeroelastic tailoring and structural designs with aeroelastic constraints.

Prerequisite(s): AEM 313 or consent of instructor

AEM481 Complex Engineering Systems  
Hours 3

Introduction to the concepts and techniques associated with the analysis of complex systems, dynamic systems, chaos, lumped parameter modeling, feedback, networks, thermal/electrical circuit analogies, entropy.

Prerequisite(s): AEM 349 or ME 349, ME 215, MATH 238

AEM482 Space Systems  
Hours 3

Concepts in systems engineering of space systems: systems engineering, space systems, satellites, space transportation systems, space environment, attitude determination and control, telecommunications, space structures, rocket propulsion, and spacecraft systems.

Prerequisite(s): AEM 360

AEM484 Space Environment  
Hours 3

This course provides an introduction to the effects of the space environment on spacecraft. The harsh space environment introduces several unique challenges to the spacecraft designer. Focus on the impact of this environment and how best to mitigate these effects through early design choices will give the satellite designer better tools. Topics include: geomagnetic field, gravitational field of the Earth, Earth’s magnetosphere, vacuum, solar UV, atmospheric drag, atomic oxygen, free and trapped radiation particles, plasma, spacecraft charging, micrometeoroids.

AEM488 Advanced Space Propulsion and Power  
Hours 3

This course will explore concepts, theory, and performance of electrical, nuclear, and exotic space propulsion systems for use in space. This exploration will include fundamental physical processes exploited by these propulsion schemes. The course will also include concept, theory and performance of power generation methods in space. Systems studied will include low and high power systems intended for short term or long term applications. Thermal, solar and nuclear devices and the energy conversion means for converting energy from these sources into useful electrical power will be studied.

AEM491 Special Problems  
Hours 1-6

Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM492 Special Problems  
Hours 1-6

Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM495 Senior Seminar  
W  
Hours 3

Selected topics from recent developments in the aeronautical and space engineering fields. There are visiting lecturers and extensive student participation. Several nontechnical topics of immediate interest to seniors are explored. Each student must complete a personal resume. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s) with concurrency: AEM 402

Writing

CE121 Intro Civil Constrctn Envir Eg  
Hours 1

Introduce the student to the areas of professional, civil and environmental engineering practices with exposure to faculty members specializing in each area, solving typical problems in each professional area, learning of the activities of service organizations, and the responsibilities of professional practice.

CE220 Society Infrastruct & Environm  
SB  
Hours 3

Permitting, environmental impact statements and other environmental issues associated with human activities and engineering projects.

Social and Behavioral Sciences

CE260 Civil & Construction Surveying  
Hours 0-2

Precise measurement of lengths, angles, areas, and elevations in geodetic systems; computation of construction control, including highway alignment and land areas.

Prerequisite(s): (ENGR 161 or ENGR 171 or ART 131) and MATH 115 or (MATH 112 and MATH 113) or ACT 30 or SAT 680 or PLMA 440 or PLAC 565
CE262 Civil & Constructn Engr Matls
Hours 0-3
Introduction to the engineering properties of structural materials, including steel, wood, aggregate, concrete and asphalt, including experimental testing procedures and interpretation of results.
Prerequisite(s): AEM 201 or ESM 201; and
Prerequisite(s) with concurrency: AEM 250

CE270 Climate Changes: European Alps
N
Hours 4
The course focuses on hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrologic (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.

Natural Science

CE271 Glaciology
N
Hours 4
Glacier basics, physical properties, mass and energy balance, climate change impacts, streamflow impacts.

Natural Science

CE320 Intro Environmental Engineering
Hours 3
Introduction to the scientific and engineering principles needed to analyze and solve environmental engineering problems, and lab experience in the practice of environmental engineering related to air, water and waste water management. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CH 101 OR CH 117 min grade of C-
Prerequisite(s) with concurrency: AEM 311 and CHE 304

CE331 Intro to Structural Eng.
Hours 0-3
Introduction and principles of structural analysis of determinate and indeterminate structures. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 250 and CE 262

CE340 Geotechnical Engineering
C, W
Hours 4
Static and dynamic interaction of soil and water; theories of stress distribution, consolidation, strength and failures; stability of soil structures.
Prerequisite(s): CE 262 and AEM 250

Computer Science, Writing

CE350 Intro. to Transportation Eng
Hours 3
An introduction to different modes of transportation with emphasis on roadway and traffic engineering. Topics include transportation economics and planning, highway geometric and pavement design, drainage, construction, traffic control devices, traffic operations, and management and highway capacity analysis.
Prerequisite(s): CE 260 GES 255

CE366 Introduction to Construction Engineering
Hours 3
Applying engineering economic principles to construction and engineering problems; construction management processes and methods in planning, scheduling, and monitoring engineering projects.
Prerequisite(s): CE 262

CE378 Water Resources Engineering
Hours 3
Mechanics of steady and unsteady flow in closed and open conduits, hydrology, water supply and wastewater disposal. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Dynamics (AEM 264) and Fluid Mechanics (AEM 311); or Fluid Flow Operations (CHE 304)

CE401 Capstone Design: Site Development
C, W
Hours 4
Students use of software to design site projects in teams, prepare construction drawings and deliver engineering reports. This class is normally taken during the last term on campus. Writing proficiency within the discipline and computing proficiency are required for a passing grade in this course.
Prerequisite(s): Student must satisfy one of the following sets of prerequisite(s): a) CE 320 with a minimum grade of C- And CE 350 with a minimum grade of C- And CE 378 with a minimum grade of C- And Six (6) credit hours of 400- or 500- level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 424 or CE 524, CE 425 or CE 525, CE 427 or CE 527, CE 442 or CE 542, CE 451 or CE 551, CE 457 or CE 557, CE 459 or CE 559, CE 475 or CE 575, CE 485 or CE 585. b) CE 340 with a minimum grade of C- And CE 366 with a minimum grade of C- And CE 320 or CE 350 or CE 378 with a minimum grade of C- And Six (6) credit hours of 400- or 500- level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 442 or CE 542, CE 457 or CE 557, CE 459 or CE 559, CE 461 or CE 561, CE 485 or CE 585. c) CE 320 with a minimum grade of C- And CE 340 with a minimum grade of C- And CE 378 with a minimum grade of C- And Six (6) credit hours of 400- or 500- level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 424 or CE 524, CE 425 or CE 525, CE 427 or CE 527, CE 442 or CE 542, CE 442 or CE 542, CE 485 or CE 585.

Computer Science, Writing
CE403 Capstone Design: Building Systems  
C, W

Hours 4

Students use software to design building projects in teams, prepare construction drawings and deliver engineering reports. The course is normally taken during the last term on campus. Writing proficiency within the discipline and computing proficiency are required for a passing grade in this course.

Prerequisite(s): Student must satisfy the following set of prerequisites: CE 331 with a minimum grade of C- And CE 340 with a minimum grade of C- And CE 366 with a minimum grade of C- And Six (6) credit hours of 400- or 500-level CE courses with a minimum grade of C- And Two (2) of the following (may be taken concurrently): CE 433, CE 434, CE 436 or CE 536, CE 437 or CE 537, CE 438 or CE 538, CE 439 or CE 539, CE 444 or CE 544, CE 462 or CE 562.

Computer Science, Writing
CE414 Information Systems Design  
Hours 3

An overview of management information systems (MIS). The course will focus on the practical aspects, applications and methodology or MIS, particularly from the construction engineer’s perspective. Information design methodology and building information modeling (BIM) will be covered in detail.

Prerequisite(s): CE 366

CE417 Advanced Project Management  
Hours 3

This is an engineering management course designed to introduce students to the functions of project engineering and managers. It details the processes of planning and controlling project scope time and cost.

Prerequisite(s): CE 366 or IE 203

Prerequisite(s) with concurrency: GES 255

CE418 Engineering Management  
Hours 3

An introduction to management principles and the management functions of planning, organizing, motivating and controlling. Management of engineers in research, design, manufacturing/ construction and quality will be studied.

Prerequisite(s): CE 366

CE420 Environmental Measurements  
Hours 3

Environmental Engineering phenomena are explored through conducting laboratory experiments, selecting analytical protocols to achieve an objective, evaluating collected data sets, and discussing the results in well written reports. The course is composed of classroom lectures/ discussions and weekly laboratory activities.

Prerequisite(s): CE320 and CE378 and GES 255

Prerequisite(s) with concurrency: CE 424

CE422 Solid And Hazardous Waste Mgt  
Hours 3

Engineering design and regulatory requirements for the collection, storage, recycling, treatment and disposal of solid wastes.

Prerequisite(s): CE 320

CE424 Water And Wastewater Treatment  
Hours 3

Physical, chemical and biological principles and design of municipal water and wastewater treatment units.

Prerequisite(s): CE 320

CE425 Air Quality Engineering  
Hours 3

This is an introductory course in Air Quality Engineering. We have to major foci. The first is to understand and evaluate our air resources and air quality (as related to human and environmental health) in terms of fundamental principles and design processes. The second is to introduce the student to a variety of air pollution issues and engineered treatment processes.

Prerequisite(s): AEM 311 or CHE 304; and CE 320

CE427 Storm Water Management  
Hours 3

Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics, Selection and design of controls; regulations.

Prerequisite(s): CE 378 and CE 475

CE432 Matrix Analysis of Structures  
Hours 3

Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.

Prerequisite(s): CE 331

CE433 Reinf Concrete Struct I  
Hours 3

Concrete materials, placement of concrete and theory and design of reinforced beams, girders, slabs, columns and footings.

Prerequisite(s): CE 331

CE434 Structural Steel Design I  
Hours 3

Theory and design of structural steel members and their connections.

Prerequisite(s): CE 331

CE435 Concrete Materials  
Hours 3


Prerequisite(s): CE 331 or CE 340

CE437 Reinforced Concrete Struct II  
Hours 3

Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slap-on-grade and retaining walls.

Prerequisite(s): CE 433
CE438 Struct Steel Design II
Hours 3
Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multistory buildings, highway bridges and light-gauge steel structures.
Prerequisite(s): CE 434

CE439 Design of Wood and Masonry Structures
Hours 3
Design of wood and masonry components and subassemblies for low-rise residential and commercial buildings according to current design specifications.
Prerequisite(s): CE 331

CE442 Waste Containment Facility
Hours 3
Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics and aspects of landfill design.
Prerequisite(s): CE 340 and CE 320

CE444 Foundation Engineering
Hours 3
Analysis and design of soil foundation systems.
Prerequisite(s): CE 340

CE451 Roadway and Intersection Design
Hours 3
Application of the principles of geometric design and traffic signal layout: vertical and horizontal alignment, intersections, traffic control, and traffic signal layout. Design projects will be prepared to illustrate standard techniques.
Prerequisite(s): CE 350

CE454 Urban Transportation Planning
Hours 3
The course will provide a foundation in urban transportation planning, including an introduction to the planning process, software associated with transportation modeling and conducting transportation planning and traffic impact studies.
Prerequisite(s): CE 350

CE458 Traffic Engineering
Hours 3
Vehicle operating characteristics, traffic flow, geometric design of road and intersections, and methods of traffic control.
Prerequisite(s): CE 350

CE459 Pavement Design and Rehabilitation
Hours 3
This course covers two major areas of asphalt and concrete pavements: pavement thickness design and pavement maintenance. Topics include pavement design by the Asphalt Institute and AASHTO methods. Major maintenance will cover overlay design and slab repair, while routine maintenance will cover distress surveys, pothole repair, and crack and joint sealing.
Prerequisite(s): CE 350 or CE 366

CE460 Front End Planning
Hours 3
Principles and applications for effective, early planning of capital facilities including: finance, economics decision-making, risk management, team alignment and front end planning processes and tools.
Prerequisite(s): CE 366

CE461 Horizontal Construction Methods
Hours 3
Introduction to horizontal construction equipment and methods, design of horizontal construction systems and construction operation analysis and simulation.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 340

CE462 Vertical Construction Methods
Hours 3
Introduction to vertical construction equipment and methods, design of vertical construction systems and construction operation analysis and management processes.
Prerequisite(s): CE 366
Prerequisite(s) with concurrency: CE 331

CE463 Construction Cost Estimating
Hours 3
Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tools and techniques, contingency planning, and relationship to contract types and project execution strategies.
Prerequisite(s): CE 366

CE464 Safety Engineering
Hours 3
An introduction to safety management and accident prevention, including state and federal laws related to general and construction projects. Topics include accident theories, safety regulations, Construction Safety Act, hazards and their control, human behavior and safety and safety management.
Prerequisite(s): GES 255 and CE 366

CE467 Constr. Accounting & Finance
Hours 3
Financial management of construction projects. Topics include alternative selection, life-cycle analysis, applied financial management techniques, insurance/indemnification, risk management and tax implications.
Prerequisite(s): CE 366

CE468 Construction Scheduling
Hours 3
The management structure of construction companies and the laws, regulations, practices, tools and processes used in planning, scheduling and monitoring construction projects. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): CE 366
CE470 Water Resources in the European Alps
Hours 4
The course focuses on statistical hydrology, climate, dendrohydrology (tree rings) and glaciers. The classroom lectures and in-class labs include the use of statistical software to analyze hydrologic datasets, the use of remote imagery to evaluate glacier recession, application of empirical equations to estimate glacier mass loss, evaluation of hydrometric (streamflow, snowpack) and climatic datasets, developing skeleton plots and cross dating tree-ring data, and seminars. The field labs consist of hand coring and analyzing tree ring data.
Prerequisite(s): Sophomore status, 2.5 GPA, CE 378

CE475 Hydrology
Hours 3
Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology and hydrologic simulation. Includes a class project with application to flood control, water supply and multipurpose projects.
Prerequisite(s): CE 378

CE480 Forensic Engineering
Hours 3
When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution of engineering practice and to dispute resolution through the legal system. The role of the engineer in this process is examined.
Prerequisite(s): AEM 250

CE481 Legal Aspects of Engineering and Construction
Hours 3
Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors. Writing proficiency within this discipline is required for a passing grade in this course. This is a three hour survey course covering, primarily, the organization of the federal and state courts, construction contracting, potential tort liability and professionalism for engineers in Alabama.
Prerequisite(s): CE 320, CE 331, CE 340, CE 366 or CE 378, and one HU elective (3 credits)

CE484 Exp. Design & Field Sampling
Hours 3
Experimental design, sensitivity analyses, water sampling and flow monitoring. Receiving water chemical reactions. Field investigations.
Prerequisite(s): CE 320 and GES 255

CE485 Const. Site Erosion Control
Hours 3
Prerequisite(s): CE 378

CE486 GIS for Civil Engineers
Hours 3
Introduction to geographic information system design and use for civil engineering problem solving.
Prerequisite(s): CE 260 and any CE 300 Level Course

CE491 Special Problems
Hours 1-3
Credit is based on the amount of work undertaken. Analysis and/or design in any phase of civil engineering. The course is intended to take care of needs not covered by regularly offered courses.

CE498 Undergraduate Research Experience
Hours 1-6
Conduct research under the guidance of a faculty member. Analyze data. Produce and present, submit or publish related scholarly work.
Prerequisite(s): CE 320 or CE 331 or CE 340 or CE 350 or CE 366 or CE 378, and Permission of a department faculty member (research advisor)

CHE125 Introduction To Chemical Engineering
Hours 1
An introduction to the chemical engineering profession, its history and its career-enabling potential. The course contains selected topics, and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical and petroleum industries.

CHE254 Chemical Engineering Calculations
Hours 4
Study of physical and chemical processes and chemical reactions; material and energy balance calculations for single-phase and multiphase systems; simultaneous energy and material balances. Offered fall and spring.
Prerequisite(s): CH 101 or CH 117; and MATH 125 or MATH 145; and CHE 125 or AEM 121 or AEM 131 or CE 121 or ECE 121 or ENGR 111 or ENGR 131 or ME 121 or MTE 121 or EE 121 or CS 121

CHE255 Chemical Engineering Thermodynamics
C
Hours 4
Chemical calculations using the first and second laws of thermodynamics, including chemical and phase equilibria, multiphase reacting systems, steady-state and non-steady-state material and energy balances. Computer proficiency is required for a passing grade in this course. Offered fall and spring.
Prerequisite(s): ENGR 103, CHE 254 and MATH 126 or MATH 146

Computer Science

CHE304 Fluid Flow Operations
Hours 3
Equations of momentum and energy transport and their applications to the analysis of fluid process behavior, filtration, fluidization and metering of fluids.
Prerequisite(s): CHE 254 and MATH 126 or MATH 146
Prerequisite(s) with concurrency: CHE 254
CHE305 Separation Processes
C
Hours 3
Unified approach to the basic calculations and fundamental concepts involved in the design of equilibrium-stage separations processes and continuous contacting equipment. Computer proficiency is required for a passing grade in this course.
Prerequisite(s): CHE 255

CHE306 Heat Transfer Operations
Hours 3
Study of heat transfer and its application in the design of specific processes and process equipment.
Prerequisite(s): CHE 254, MATH 238, and CHE 304
Prerequisite(s) with concurrency: CHE 304

CHE321 Basic Chemical Engineering Laboratory
W
Hours 2
Basic chemical engineering measurements are made, including temperature, pressure, concentration, and fluid flow. Fundamental and empirical equations are used to analyze mass, energy, and momentum transport. Writing proficiency within this discipline is required for a passing grade in this course. Offered both fall and spring semesters.
Prerequisite(s): CHE 255, CHE 304
Writing

CHE322 Unit Operations Laboratory
W
Hours 2
Performance tests on chemical engineering unit operations, such as distillation and heat transfer, are designed, operated, and analyzed in a formal report. Writing proficiency within this discipline is required for a passing grade in this course. Offered fall and spring semesters. Successful completion of CHE 321 and CHE 322 satisfies the curriculum requirement of CHE 323.
Prerequisite(s): CHE 304, CHE 305, CHE 306, CHE 321
Writing

CHE323 Operations Laboratory
W
Hours 4
Performance tests on chemical engineering unit operations, such as distillation and heat transfer, are designed, operated, and analyzed in a formal report. Writing proficiency within this discipline is required for a passing grade in this course. Offered summer only. Can be replaced by successful completion of CHE 321 and CHE 322.
Prerequisite(s): CHE 304, CHE 305, CHE 306
Writing

CHE324 Transport Phenomena
C
Hours 3
Development of the conservation equations for mass, momentum and energy with application to steady-state and transient chemical processes. Computer proficiency is required for a passing grade in this course.
Prerequisite(s): CHE 255 ChE Eng Thermodynamics MATH 238 Appld Diff Equations I
Prerequisite(s) with concurrency: MATH 238 and CHE 255

CHE354 Chemical Reactor Design
Hours 3
Reaction rate equations and comparisons with experimental data; use of rate information for the design of chemical reactors. Offered primarily in the spring semester.
Prerequisite(s): CHE 255, MATH 238

CHE412 Polymer Materials Engineering
Hours 3
Introduction to the manufacture, processing and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers. Offered primarily in the spring semester.
Prerequisite(s): CH 102 or CH 118

CHE413 Honors Polymer Materials Engineering
UH
Hours 3
Introduction to the manufacture, processing and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers. Honors designation.
Prerequisite(s): CH 102 or CH 118

CHE418 Tissue Engineering
Hours 3
Tissue Engineering is an emerging dynamic, experimental science in which engineering and biological science principles are used to develop techniques for improving or restoring the structure and function of tissue. Offered primarily in the fall semester.
Prerequisite(s): CH231 and (BSC 114 or 118)
CHE419 Honors Tissue Engineering  
*UH*  
Hours 3  
Tissue Engineering is an emerging dynamic, experimental science in which engineering and biological science principles are applied to develop techniques for improving or restoring the structure and function of tissues and organs.  
Prerequisite(s): CH 231 and BSC 114 or BSC 118  
University Honors

CHE440 Health & Safety In The Chemical Process Industry  
Hours 3  
Health and safety in the chemical process industry that will introduce chemical engineering students to health and safety, regulations and the designs and procedures to meet them in the chemical process. Advanced topics will also be introduced, including current relevant topics such as recent accidents and ways and means of preventing a re-occurrence, advanced models of spills and advanced safety analysis.  
Prerequisite(s): CH 102 General Chemistry I or CH 118 Honors General Chemistry CHE 255 Chem Engr Thermodynamics

CHE441 Honors Health and Safety in the Chemical Process Industry  
*UH*  
Hours 3  
Health and safety in the chemical process industry that will introduce chemical engineering students to health and safety, regulations and the designs and procedures to meet them in the chemical process. Advanced topics will also be introduced, including current relevant topics such as recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis.  
Prerequisite(s): CH 102 or CH 118, CH 255  
University Honors

CHE445 Introduction to Biochemical Engineering  
Hours 3  
Study of biological processes; application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth and metabolic processes. Offered primarily in the spring semester.  
Prerequisite(s): CH 231

CHE446 Honors Intro to Biochemical Engineering  
*UH*  
Hours 3  
Study of biological processes; application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth and metabolic processes. Offered primarily in the spring semester.  
Prerequisite(s): CH 231  
University Honors

CHE481 Chemical Process Design I  
Hours 3  
Technical and economic design of chemical processes and plants. It is recommended that students complete at least two 300-level ChE classes before enrolling in 481.  
Prerequisite(s): CHE 255 CHE 305

CHE482 Chemical Process Design II  
*W*  
Hours 3  
Optimal design of chemical processes and plants. Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): CHE 481  
Writing

CHE491 Special Problems  
Hours 1-3  
Research combined with practical application and testing. Credit is based on the amount of work undertaken. Students undertaking research project must obtain clearance from the supervising professor before registering.

CHE492 Special Topics  
Hours 3  
Various topics relevant to Chemical & Biological Engineering majors.

CHE493 Process Dynamics & Control  
Hours 3  
Development of model equations that describe the unsteady-state behavior of chemical processes; automatic control design and analysis emphasizing time-domain methods; introduction to digital computer control.  
Prerequisite(s): CHE 255 and MATH 238

CHE495 Undergraduate Honors Seminar  
*UH*  
Hours 1  
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty and invited guests).  
University Honors

CHE496 Undergrad Honors Seminar  
*UH*  
Hours 1  
Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).  
University Honors

CHE498 Honors Special Problems  
*UH*  
Hours 1-3  
Credit is based on the amount of work undertaken. Research or practical study in a chemical engineering area, the outcome of which is a definite result presented in a report, paper, or manuscript. Instructor permission required.  
University Honors
CHE499 Honors Special Problems

Hours 1-3

Credit is based on the amount of work undertaken. Research, teaching assistantship, practical study, honors co-op or internship in a chemical engineering area, the outcome of which is a definite result presented in a report, paper, or manuscript. Instructor or Honors Chair permission required.

University Honors

CS100 CS I for Majors

Hours 4

A first course in programming for students majoring in computer science. Language concepts include primitives, variables, sequences, function, selection, iteration and recursion. Software engineering concepts include testing and debugging. System concepts include directories, paths, files, and text editing.

Prerequisite(s): (MATH 112 and MATH 113) or MATH 115 or UA ACT Subject Math Placement 565 or UA Placement Mathematics 440

Prerequisite(s) with concurrency: MATH 125 or MATH 126 or MATH 145 or MATH 146

CS101 CS II for Majors

Hours 4

A second course in programming for students majoring in computer science. Using a high-level language, student use object-oriented practices to study fundamental data structures and algorithms. Issues such as computability, problem complexity and algorithm analysis, efficient searching and sorting, data structures, and the object-oriented programming paradigm are introduced and explained.

Prerequisite(s): (CS 100 or RRS 102 or (CS 150 and ECE 285)) and (MATH 125 or MATH 145)

Computer Science

CS102 Microcomputer Applications

Hours 3

Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management. (Credit for this course will not be applied to the requirements for a computer science degree).

CS104 Computer Science Principles

Hours 3

An introductory course that overviews the core principles of computer science from a broad spectrum of topics. The course content is focused on computing and its relation to creativity, abstraction, algorithms, programming, Big Data, Internet/networking, and societal impact. Students will work on team-based projects that explore topics in Big Data, investigate the impact of the internet, and create their own games and/or smartphone applications. This course is restricted to Math and Math Education majors only.

Prerequisite(s) with concurrency: MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146

CS120 Business Programming I

Hours 3

An introduction to programming. The topics include procedural information enabled problem formulation, design and development of business computer solutions. This course concentrates on the construction and testing of individual programs.

Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125

CS121 The Discipline of Computing

Hours 1

An introduction to the discipline of computing designed for students who are considering a major or minor in computer science.

Prerequisite(s): MATH 112 OR higher OR UA Math Placement Test Score of 370

Prerequisite(s) with concurrency: MATH 112

CS150 Programming I

Hours 2

An introductory course that teaches programming and program development. The emphasis of the course is the rapid acquisition of programming, testing, debugging and system skills. Topics include sequence, selection, iteration, arrays, functions and recursion.

Prerequisite(s): (MATH 112 and MATH 113) or MATH 115 or UA Subject Math Placement Test Score (PLAC) of 565 or UA Math Placement Test Score (PLMA) of 440

Prerequisite(s) with concurrency: MATH 125 and MATH 126 and MATH 145 and MATH 146

CS160 Computer Science Concepts

Hours 1

Introductory programming laboratory that focuses on basic problem solving concepts.

Prerequisite(s): Credit for MATH 112 or placement into MATH 115 or above.

CS200 Software Design and Engineering

C

Hours 4

Introduction to software engineering: the software crisis, program life cycle, software systems analysis techniques, software modeling, theory and practice of design, program testing methodologies, programmer team organization, and program verification and synthesis.

Prerequisite(s): CS 101

Computer Science
CS201 Data Structures and Algorithms

C

Hours 4

Data structures including balanced search trees, heaps, hash tables, and graphs. Algorithm design techniques including divide-and-conquer, greedy method, and dynamic programming. Emphasis on problem solving, design, analysis, and reasoning about data structures and algorithms.

Prerequisite(s): CS 101 and MATH 301
Prerequisite(s) with concurrency: MATH 302

Computer Science

CS202 Intro to the Internet

C

Hours 3

Introduces the student to the fundamentals of the internet and web page design and development. Students will be shown how to use the internet, text editors, and build basic web pages using HTML coding. This will include, but not be limited to hyperlinks, tables, basic CSS styling, frames and forms. The student will also be given demonstrations and assignments using a WYSIWYG editor.

Prerequisite(s): Grade of D- or higher in CS 102 or CS 150 or RRS 101 or CS 100, or PLCS of 380

Computer Science

CS205 Web Site Design

C

Hours 3

A course designed to teach website design principles and implementation techniques. This class is not cross-listed as a graduate course. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 202 with a grade of D- or higher

Computer Science

CS220 Business Programming II

C

Hours 3

This course builds on the concepts and expertise gained in data driven problem solving and computer programming. It explores problem formulation, solution designing and object-oriented construction of business applications. This course concentrates on problem decomposition, design, construction and testing of individual programs. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 120 or RRS 101

Computer Science

CS250 Programming II

C

Hours 2

A second course in programming that builds upon the concepts covered in CS 150. The emphasis is to improve and solidify program development skills as well as to introduce students to multimedia programming. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 150 or CS 100

Computer Science

CS260 Foundations of Comp Science

C

Hours 3

An introduction to the science of Computer Science. Topics include: introduction to complexity, O(n), searching, sorting, design strategies, problem solving, arrays, linked lists, stacks, queues, and binary search trees.

Prerequisite(s): CS 150 or CS 100 or RRS 101 and (CS 160 or ECE 285)

Computer Science

CS285 Microcomputer Appl II

C

Hours 3

Use of spreadsheets and other environments to build business and scientific applications. Course includes development of problem-solving skills and an introduction to the object-oriented paradigm. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): Grade of D- or higher in CS 102 or CS 150 or CBH 101 or CS 100 or PLCS of 380

Computer Science

CS300 Operating Systems

Hours 3

Study of basic operating system concepts with an emphasis on memory, processor, device, and information management.

Prerequisite(s): CS 200, CS 201

CS301 Database Management Systems

W

Hours 3

Constituent parts of database management (design, creation, and manipulation of databases), including the conceptual and relational data models, SQL, normalization and security. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): CS 200 and CS 201

Writing
CS302 Computerized Database Systems
C
Hours 3
An introduction to commercial database packages. Students will gain
familiarity with both creating and using standard database software
packages to solve real-world problems. Computing proficiency is required
for a passing grade in this course.
Prerequisite(s): Grade of D- or higher in CS 102 or CS 150 or RRS 101 or
CS 100, or PLCS of 380

Computer Science

CS305 Advanced Computerized Database Systems
C
Hours 3
This course is designed for non-majors wishing to learn more about the
use of database systems in a wide variety of applications. Coverage
includes advanced database topics such as advanced queries, custom
forms and custom reports.
Prerequisite(s): CS 302 with a grade of D- or higher

Computer Science

CS315 Software Engineering
Hours 3
Introduction to software engineering: the software crisis, program life
cycle, software systems analysis techniques, software modeling, theory
and practice of design, program testing methodologies, programmer
team organization, and program verification and synthesis.
Prerequisite(s): CS 260 and (CS 250 or ECE 285)

CS340 Legal & Ethical Issues in Comp
C
Hours 3
By way of case study, the course finds and frames issues related to legal
and ethical issues in computing. Topics include privacy, free speech,
intellectual property, security, and software reliability and liability issues.
Computing proficiency is required for a passing grade in this course.
Prerequisite(s): Grade of D- or higher in CS 102 or CS 150 or RRS 101 or
CS 100, or PLCS of 380

Computer Science

CS345 Advanced Legal and Ethical Issues in Computing
C
Hours 3
Using case study and fact pattern analysis, students will find and frame
legal and ethical issues presented by past, contemporary and emerging
technology. Students will engage in service learning to enhance their
sense of civic responsibility.
Prerequisite(s): CS 340 with a grade of D- or higher

Computer Science

CS350 Programming III: Java
C
Hours 2
The third course in programming that builds upon the concepts covered
in CS 250 and transitions to the Java programming language. The
emphasis is on building larger projects using production languages and
development environments. Computing proficiency is required for a
passing grade in this course.
Prerequisite(s): CS 250 or ECE 285

Computer Science

CS351 Programming III: C++
C
Hours 2
The third course in programming that builds upon the concepts covered
in CS 250 and transitions to the C++ programming language. The
emphasis is on building larger projects using production languages and
development environments. Computing proficiency is required for a
passing grade in this course.
Prerequisite(s): CS 250 or ECE 285

Computer Science

CS360 Data Structures & Algorithms
C
Hours 4
Basic concepts of data, linear lists, strings, arrays, trees, graphs, and
the related storage of representations and structures. Applications
include expression conversion, sorting, searching and dynamic storage
allocation. Computing proficiency is required for a passing grade in this
course.
Prerequisite(s): MATH 301; and CS 250 or ECE 285; and CS 260;
Prerequisite(s) with concurrency: MATH 302 and CS 350 and CS 351 and
CS 352

Computer Science

CS385 Prototyping In Visual Environm
C
Hours 3
Design and construction of standard user interfaces using a visual
programming environment. Course includes the prototyping of several
standard user interface mechanisms. Computing proficiency is required
for a passing grade in this course.
Prerequisite(s): CS 285 with a grade of D- or higher

Computer Science

CS391 Special Topics
Hours 3
Special topics in computing.

CS395 Competitive Programming I
Hours 1
A study of techniques and practices that promote success in competitive
programming contests.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS396</td>
<td>Competitive Programming II</td>
<td>1</td>
<td>Advanced study of techniques and practices that promote success in competitive programming contests. Must have 3 hours of credit in CS 395. Prerequisite(s): CS 395</td>
</tr>
<tr>
<td>CS403</td>
<td>Programming Languages</td>
<td>3</td>
<td>Formal study of programming language specification, analysis, implementation, and run-time support structures; organization of programming languages with emphasis on language constructs and mechanisms; and study of non-procedural programming paradigms. Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS407</td>
<td>Software Interface Design</td>
<td>3</td>
<td>Basic concepts of human-computer interaction, including guidelines for interface design, evaluation of interface designs, virtual environments, menus, forms, natural language interactions, novel interaction devices, information search and information visualization. Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS415</td>
<td>Software Design &amp; Development</td>
<td>3</td>
<td>Object-oriented design and development using UML and Java, design patterns, and architectural patterns.                                                                                                          Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS416</td>
<td>Testing and Quality Assurance</td>
<td>3</td>
<td>Study of verification &amp; validation and related processes. Topics include techniques and tools for software analysis, testing, and quality assurance.                                                               Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS417</td>
<td>Requirements Engineering</td>
<td>3</td>
<td>Study of requirements engineering and its phases. Topics include formal, semi-formal, and informal paradigms for elicitation, documentation, and management of software system requirements. Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS420</td>
<td>Software Maintain. &amp; Evolution</td>
<td>3</td>
<td>Study of software and its phases. Topics include techniques and tools for concept location, impact analysis, actualization, refactoring, and validation.                                                                 Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS426</td>
<td>Intro Operating Systems</td>
<td>3</td>
<td>Study of basic operating system concepts with an emphasis on memory, processor, device, and information management.                                                                                             Prerequisite(s): (CS 200 or CS 315) Minimum Grade of C- AND (CS 201 or CS 360) Minimum Grade of C- AND (CS 101 or CS 350 or CS 351 or CS 352) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS428</td>
<td>Computer Security</td>
<td>3</td>
<td>An examination of computer security concepts, such as cryptographic tools, user authentication, access control, database security, intrusion detection, malicious software, denial of service, firewalls and intrusion prevention systems, trusted computing and multilevel security, buffer overflow, software security, physical and infrastructure security, human factors, and security auditing. Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS435</td>
<td>Computer Graphics</td>
<td>3</td>
<td>Fundamentals of interactive 3-D computer graphics, including modeling and transformations, viewing, lighting and shading, mapping methods, graphics pipeline, shading languages, and interaction techniques. Programming projects are required. Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS438</td>
<td>Computer Comm &amp; Networks</td>
<td>3</td>
<td>The study of the issues related to computer communications. Topics include physical topologies, switching, error detection and correction, routing, congestion control, and connection management for global networks (such as the Internet) and local area networks (such as Ethernet). In addition, network programming and applications will be considered. Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS448</td>
<td>Network Security</td>
<td>3</td>
<td>Concepts concerning network security, including an examination of network security concepts, algorithms, and protocols.                                                                                         Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-</td>
</tr>
<tr>
<td>CS457</td>
<td>Database Management Systems</td>
<td>3</td>
<td>Constituent parts of database management (design, creation, and manipulation of databases), including the conceptual and relational data models, SQL, normalization and security. Writing proficiency within this discipline is required for a passing grade in this course. Prerequisite(s): (CS 200 or CS 315) Minimum Grade of C- AND (CS 201 or CS 360) Minimum Grade of C- AND (CS 101 or CS 350 or CS 351 or CS 352) Minimum Grade of C- AND (ECE 383) Minimum Grade of C- Writing</td>
</tr>
</tbody>
</table>
CS460 Intro to Autonomous Robotics  
Hours 3  
Issues involved with the implementation of robot control software including motion, kinematics, simulation testing, sensor incorporation and unmodeled factors.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS465 Artificial Intelligence  
Hours 3  
The advanced study of topics under the umbrella of artificial intelligence including problem solving, knowledge representation, planning and machine learning.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS470 Computer Algorithms  
Hours 3  
Construction of efficient algorithms for computer implementation.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS475 Formal Languages & Machines  
Hours 3  
Regular expressions and finite automata. Context free grammars and pushdown automata. Recursively enumerable languages and the Turing machine. The Chomsky hierarchy.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS480 Computer Simulation  
Hours 3  
Introduction to simulation and use of computer simulation models; simulation methodology, including generation of random numbers and variants, model design, and analysis of data generated by simulation experiments.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS491 Special Topics  
Hours 3  
Formal courses that cover new and innovative topics in computer science and do not yet have their own course numbers. Specific course titles will be announced from time to time.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS492 Special Prob (Area)  
Hours 1-3  
Reading and research course designed to meet the needs of individual students. This course cannot be used as a required 400-level computer science elective.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS493 Special Problems in Software Engineering  
Hours 3  
Reading, research, and development course designed to meet the needs of individual students. This course is specifically for students pursuing the Software Engineering Concentration.  
Prerequisite(s): (CS 300 or CS 426) Minimum Grade of C- AND (CS 301 or CS 457) Minimum Grade of C- AND (ECE 383) Minimum Grade of C-

CS495 Capstone Computing  
W  
Hours 3  
A culminating capstone project course that integrates the skills and abilities throughout the curriculum into a comprehensive design and development experience for computer science majors. Writing proficiency within this discipline is required for a passing grade in this course, and ethical issues are applied to the students' future professions.  
Prerequisite(s): (CS 403 or CS 470 or CS 475) Minimum Grade of C- AND three additional hours of 400-level CS classes

Writing  

CS499 Undergraduate Thesis Research  
W  
Hours 3  
Independent research and participation within a faculty member's research group. Writing proficiency within this discipline is required for a passing grade in this course. Permission of the supervising faculty member is required.  
Prerequisite(s): (CS 403 or CS 470 or CS 475) Minimum Grade of C- AND three additional hours of 400-level CS classes

Writing  

DR135 Construction Drawing  
Hours 3  
Introduction to the graphic language used by the construction industry. Covers architectural plans, elevations, sections, and pictorials, executed by freehand sketches, instrument drawings, and computer-aided drawings.  

DR250 Construction Materials & Proc  
Hours 3  
No description available  

DR355 Auto Cad Interior Design  
Hours 3  
Use of AutoCAD software to produce two-dimensional architectural drawings, such as floor plans, elevations, sections and details. Explores three-dimensional views and presentation techniques.  

ECE121 Introduction to Electrical and Computer Engineering  
Hours 1  
Introduction to electrical and computer engineering disciplines, specializations, the engineering design process, mathematics required for these disciplines, computer-based modeling and simulation tools, and professional responsibilities.  
Prerequisite(s): MATH 110
ECE225 Electric Circuits
Hours 4
Physical concepts and mathematical techniques of circuit analysis; DC, transient, and sinusoidal steady-state analysis of circuits; Includes laboratory experiments.
Prerequisite(s): PH 106 and PH 126, MATH 227 and MATH 238

ECE285 Programming for Elec/Comp Eng
Hours 3
Algorithm design, programming, test and debugging skills using the C programming language. Applications to engineering problem solving in electrical and computer engineering.
Prerequisite(s): MATH 125 or MATH 145
Prerequisite(s) with concurrency: CS 150

ECE320 Fundamentals Electrical Engr
Hours 3
Introduction to circuit analysis, methods, resistive circuits, AC circuits, first-order transients, AC power, operational amplifiers and machines. Not open to electrical engineering majors or to students who have earned credit for ECE 225.
Prerequisite(s): PH 106 or PH 126; and MATH 238 or MATH 247

ECE326 Electric Networks
Hours 3
Prerequisite(s): ECE 225 and MATH 238 and MATH 355

ECE330 Intro. to Semiconductor Device
Hours 3
Semiconductor device physics, p-n junction, Schottky diodes, BJT, MOS capacitor, MOSFET and optoelectronic devices. Brief introduction of microelectronic fabrication.
Prerequisite(s): PH 253 and ECE 225
Prerequisite(s) with concurrency: ECE 225

ECE332 Electronics I
W
Hours 0-4
Semiconductor materials and properties, fundamentals of p-n junctions, diodes, diode circuits and operation, signal generators, rectifier and waveform shaping circuits, bipolar and field effect transistors, MOSFET, transistor DC circuit analysis and basic transistor amplifiers. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ECE 225 or ECE 320; and EN 102
Writing

ECE333 Electronics II
W
Hours 4
Operational amplifiers, BJTs, MOSFETs, integrated current biasing and active loads, differential and multistage amplifiers, frequency response, feedback and stability, power amplifiers, and introduction to digital electronics. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): ECE 332
Writing

ECE340 Electromagnetics
Hours 4
Electrostatics, magnetostatics, Maxwell’s equations, plane waves, guided waves, and radiation.
Prerequisite(s): PH 106 or PH 126, and MATH 227 or MATH 247, and MATH 238

ECE350 Electric Power & Machines
Hours 3
Single- and three-phase power system analysis. Theory and operation of electromechanical devices, including magnetic circuits, transformers, as well as DC and AC rotating machines. Fundamentals of power electronics.
Prerequisite(s): ECE 225 or ECE 320

ECE370 Signals And Systems
C
Hours 3
Time domain and frequency domain analysis of continuous and discrete signals and systems; Fourier integral, Fourier series, Z-transform. Numerical implementation using MatLab. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): ECE 225 and ECE 285

Computer Science

ECE380 Digital Logic
Hours 4
Number systems, Boolean algebra, logic functions and gates, design of combinational logic systems, flip-flops, design of synchronous sequential systems, and iterative networks. Includes laboratory experiments.
Prerequisite(s): (CS 150 or RRS 101) and (MATH 125 or MATH 145)

ECE383 Microcomputers
C
Hours 4
Microprocessors, microcontrollers, assembly-language programming, interrupts, polling and hardware interfaces. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (ECE 285 or CS 250 or RRS 101) and ECE 380

Computer Science
ECE399 Undergraduate Research Fellows  
Hours 1-5

The ECE Department offers the opportunity for select undergraduate students to become actively engaged in research and development programs lead by our faculty and graduate students. This opportunity provides undergraduate students with practical research experience, knowledge of modern research practices, and advanced technical skills. Students are evaluated on a pass/fail basis.

Prerequisite(s): Consent of the Instructor.

ECE408 Communications  
Hours 3

Analog and digital communication systems, random signals, sampling, filtering, analog-to-digital encoding, advanced digital modulation/demodulation, source encoding/decoding, channel encoding/decoding, multiplexing and system performance analysis.

Prerequisite(s): MATH 355 and ECE 370

ECE409 Communications Lab  
Hours 1

Modeling and design of communication systems. Familiarization with specialized communications equipment and techniques. Proper use of laboratory instruments.

Prerequisite(s): ECE 370 and ECE 408

Prerequisite(s) with concurrency: ECE 408

ECE430 Solid State Devices  
Hours 3

Solid state physics for semiconductor devices, p-n junction, metal-semiconductor junction, JFET/MESFET, MOSFET, BJT and non-ideal behaviors of solid state devices. Organic thin film devices including organic solar cells, thin film transistors, light emitting diodes and their application for flexible displays.

Prerequisite(s): ECE 330

ECE434 Mixed Signal Circuits  
Hours 3

Design and testing issues in the context of mixed-signal embedded systems. Introduction to CMOS mixed-signal design methodology, layout techniques, analog to digital converters, digital to analog converters, circuit simulation, and testing and packaging of complex mixed-signal systems.

Prerequisite(s): ECE 332

ECE438 Intgr Circuit Fabr Prin  
Hours 3

Study of the processing tools used in semiconductor device fabrication. Topics include semiconductor fundamentals, semiconductor device fabrication processes, interconnections and contacts, integrated circuit packaging, and chip yield.

Prerequisite(s): ECE 333 or MTE 271

ECE439 Thin Film Technology  
Hours 3

Crystal structure and defects, film nucleation and growth models, growth of polycrystalline and epitaxial films, vacuum science technology, physical and chemical vapor deposition, solution based methods and thin film characterization techniques.

Prerequisite(s): ECE 225 or PH 253

ECE440 Electromagnetic Waves  
Hours 3

Mathematics and physics of the radiation, propagation and scattering of electromagnetic waves. Boundary value problems involving finite and infinite structures, waveguides, antennas and media.

Prerequisite(s): ECE 340

ECE451 Power Electronics  
Hours 3

Detailed study on the theory and operation of power electronics converters and systems. Overview of enabling power semiconductors switching devices. Introduction to feedback control of converters. Machine drive fundamentals.

Prerequisite(s): ECE 332 and ECE 350

ECE452 Power Electronics Laboratory  
Hours 1

Laboratory experience in three phase power systems and electric machinery. Laboratory experience on the theory and operation of power electronic converters, systems and machine drives.

Prerequisite(s): ECE 332 and ECE 350

Prerequisite(s) with concurrency: ECE 408

ECE453 Power Systems  
Hours 3

Basic power systems concepts and per unit quantities; transmissions line, transformer and rotating machine modeling; power flow; symmetrical component of power systems; faulted power system analysis.

Prerequisite(s): ECE 350

ECE454 Power Systems Laboratory  
Hours 1

Test and analysis of power systems and machine devices and the design of systems using devices.

Prerequisite(s): ECE 350 and ECE 453

Prerequisite(s) with concurrency: ECE 453

ECE455 Electromechanical Systems  
Hours 3

Static and dynamic modeling, analysis, and simulation of mechanical, electrical, hydraulic and mixed systems. MATLAB and SIMULINK model development and simulation.

Prerequisite(s): ECE 225 and MATH 238
ECE461 Quantum Well Elec & Devices  
Hours 3
Energy levels and wave functions of semiconductor microstructures; envelope function approximation; quantum wells, superlattices; excitons; optical and electrical properties; selection rules; quantum confined Stark Effect; Wannier-Stark localization; field-effect transistors, tunneling devices, quantum well lasers, electro-optic modulators and quantum-well intersubband photodetectors.
Prerequisite(s): ECE 330 or PH 253

ECE462 Semiconductor Optoelectronics  
Hours 3
Elemental and compound semiconductors; fundamentals of semiconductor physical properties; solid state physics; optical recombination and absorption; light emitting diodes; quantum well lasers; quantum dot lasers; blue lasers; semiconductor modulators; photodetectors; semiconductor solar cells; semiconductor nanostructure devices.
Prerequisite(s): PH 253

ECE463 Magnetic Materials & Devices  
Hours 3
Diamagnetism and Paramagnetism, Ferromagnetism, Antiferromagnetism, Ferrimagnetism, magnetic anisotropy, domains and the magnetization process, fine particles and thin films and magnetization dynamics.
Prerequisite(s): ECE 340

ECE466 Fund of Nanotechnology  
Hours 3
Nanofabrication with electron beam lithography, focused ion beam, lithography, and nanoimprint; microscopies for nanostructures, including SEM, EDX, TEM, AFM, STM; nanoscale devices based on nanostructured materials (carbon nanotubes and metal oxide nanomaterials).
Prerequisite(s): ECE 330 or PH 253

ECE475 Control Systems Analysis  
Hours 3
Classical and modern feedback control system methods; stability; Bode, root locus, state variables and computer analysis.
Prerequisite(s): ECE 326

ECE476 Control Systems Lab  
Hours 1
Practical analysis and design of feedback control systems and components; electrical, mechanical and electromechanical systems.
Prerequisite(s): ECE 326
Prerequisite(s) with concurrency: ECE 475

ECE479 Digital Control Systems  
Hours 3
Frequency and time methods in discrete time control systems; sampling of continuous-time signals, stability, transform design techniques, and state variable analysis and design techniques.
Prerequisite(s): MATH 237 and ECE 370 and ECE 475

ECE480 Digital Systems Design  
Hours 3
Digital systems design with hardware description languages, programmable implementation technologies, electronic design automation design flows, design considerations and constraints, design for test, system-on-a-chip designs, IP cores, reconfigurable computing and digital system design examples and applications.
Prerequisite(s): ECE 383. Corequisite: ECE 481

ECE481 Digital Systems Design Lab  
Hours 1
Logic design and simulation via hardware description languages, use of electronic design automation tools, and CPU design.
Prerequisite(s): None. Corequisite: ECE 480
Prerequisite(s) with concurrency: ECE 480

ECE482 Comp Visn Dig Image Proc  
Hours 3
Introduction to computer vision and digital image processing with an emphasis on image representation, transforms, filtering, compression, boundary detection and pattern matching.
Prerequisite(s): MATH 355 and ECE 285

ECE483 Introduction to Machine Learning  
Hours 3
Machine learning studies methods that allow computers to learn from the data and act without being explicitly programmed. This course provides an introduction to machine learning and covers various supervised and unsupervised learning techniques, methods of dimensionality reduction and assessment of learning algorithms.
Prerequisite(s): MATH 355 or consent of instructor.

ECE484 Computer Architecture  
Hours 3
Basic computer organization, computer arithmetic, assembly language, machine language, simple and pipelined central-processor organization, memory system hierarchy, and measuring computer performance.
Prerequisite(s): ECE 383

ECE485 Programmable Logic Controllers  
Hours 3
Programmable Logic Controllers, fundamentals of ladder logic programming and PLC systems, advanced PLC operation, and related topics, including networking, control applications and human-machine interface design.
Prerequisite(s): ECE 383

ECE486 Embedded Systems  
Hours 3
Integration of microprocessors into digital systems. Includes hardware interfacing, bus protocols and peripheral systems, embedded and real-time operating systems, real-time constraints, networking, and memory system performance.
Prerequisite(s): ECE 383. Corequisite: ECE 487
ECE487 Embedded Systems Laboratory
Hours 1
Projects provide hands-on experience in hardware interfacing, system-level design, real-time concepts and memory system performance.
Prerequisite(s): ECE 383. Corequisite: ECE 486

ECE488 Computational Intelligence
Hours 3
Computational Intelligence is a discipline that relies on biologically inspired computation to solve real-world problems that otherwise are infeasible or impossible to solve using classical engineering approaches. The course will cover the fundamental techniques of computational intelligence and study practical applications in real-world engineering problems.
Prerequisite(s): MATH 355 or consent of instructor.

ECE491 Special Problems
Hours 1-8
Investigation of a problem or problems, usually involving research with a faculty member. Credit is based on the individual assignment.

ECE492 Capstone Design I
Hours 2
First of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project. Also, the first-semester course will include instruction in design methodology, engineering ethics, societal impacts, project economics and management tools.
Prerequisite(s): ECE 333 and ECE 408 and ECE 409; or ECE 451 and ECE 452; or ECE 453 and ECE 454; or ECE 475 and ECE 476; or ECE 480 and ECE 481; or ECE 486 and ECE 487
Prerequisite(s) with concurrency: ECE 333

ECE493 Selected Topics
Hours 1-8
Special courses in all areas of electrical or computer engineering, offered as the need arises. Credit is based on the course requirements.

ECE494 Capstone Design II
Hours 2
Second of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project.
Prerequisite(s): ECE 492

ENGR111 Engineering for the Future
Hours 1
An introduction to the discipline of engineering and what the future of the field will involve. Focus is on developing and understanding of the discipline, the contributions that the discipline will make to society in the future and career opportunities for students in the field.
Prerequisite(s): UA Math Placement Test Score (PLMA) of 310 OR Higher, UA Subject Math Placement Test Score (PLAC) of 467 OR Higher, ACT Math Subscore 24 OR Higher, SAT Math Subscore 560 OR Higher OR Passed MATH 110 with C- or higher.
Prerequisite(s) with concurrency: MATH 112 and MATH 113 and MATH 115 and MATH 125 and MATH 126 and MATH 145 and MATH 146

ENGR131 Eng. Concepts & Design I
Hours 1
Introductory course for students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, teaming and the design process.
Prerequisite(s): (MATH 112 and MATH 113) OR MATH 115 OR UA Math Placement Test Score (PLMA) of 440 or higher OR UA Subject Math Placement Test Score (PLCA) of 565 or higher OR ACT Math Subscore of 30 or higher OR SAT Math Subscore of 680 or higher.

ENGR141 Eng. Concepts & Design II
Hours 1
A second course for students that reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming and technical communication.
Prerequisite(s): ENGR 131

ENGR142 Accel. Eng. Concepts/Design
Hours 1
An accelerated course for students in all engineering disciplines that is open to students with AP Physics credit or initial placement into Calculus II or higher. With the completion of ENGR 142 with a grade of "C-" or higher, placement credit is also awarded for ENGR 131. The course reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming, and technical communication.
Prerequisite(s): AP Physics credit OR MATH 125

ENGR151 Fundamental Eng. Graphics
Hours 1
An introduction to the fundamental principles of graphical and visual communication. Focus is on the ability to use sketching as an effective communication tool within the field of engineering.
Prerequisite(s): MATH 112

ENGR161 Small-Scale Eng. Graphics
Hours 1
Two-dimensional representations of multiviews, sections, and auxiliaries will be generated.
Prerequisite(s) with concurrency: ENGR 103
ENGR171 Large-Scale Eng. Graphics
Hours 1
Use of a commercial software package to produce engineering drawings such as multiviews, sections and auxiliaries, isometric and oblique pictorials, dimensional drawings as well as simple topographical and property drawings, with an emphasis on large-scale applications.
Prerequisite(s) with concurrency: ENGR 103

ENGR191 Undergraduate Engineering Special Topics
Hours 1-3
Special courses in all areas of engineering, offered as the need arises.
Credit is based on the course requirements.

GES225 Impacts of Mjr Engr Accomplish
SB
Hours 3
Survey of major works of engineering, how they advanced the state of knowledge, the social issues of their time and the impact they have had on culture and society.
Social and Behavioral Sciences

GES255 Engineering Statistics I
Hours 3
Probability and basic statistical concepts, random variables, discrete and continuous distributions, sampling distributions, inferences concerning means, simple regression, and correlation. Experiments demonstrating probabilistic and statistical concepts are conducted. Computing proficiency are required for a passing grade in this course.
Prerequisite(s): ENGR 103
Prerequisite(s) with concurrency: MATH 146 and MATH 126

GES400 Engineering Statistics
Hours 3
Not open to students with credit for GES 255. Not available for MSIE degree credit. Probability and basic statistical concepts, discrete and continuous distributions, the central limit theorem, sampling distributions, point and interval estimation, hypothesis testing, regression and correlation analysis, and analysis of variance.
Prerequisite(s): MATH 126 or MATH 146

GES401 Operations Research
Hours 3
Not open to students with credit for IE 363. Not available for MSIE degree credit. Model construction, linear programming, network models, dynamic models, stochastic models, queuing theory and decision theory.
Prerequisite(s): MATH 126 or MATH 146
Prerequisite(s) with concurrency: GES 255 or GES 400 or GES 500

GES410 London/Dublin Internship
Hours 3
Student will enroll in 7 weeks of internship to work in the engineering profession as part of the study abroad program.

GES473 Engineering Service Learning
Hours 1-3
No description available

GES491 Special Topics
Hours 1-3
Research course designed to meet the needs of individual students.

ME121 Introduction to Mechanical Engineering
Hours 1
An introduction to the discipline of mechanical engineering and the role of the mechanical engineer, including both mechanical and thermal/fluid stems. Focus is on learning about the discipline through a series of student hands-on activities. Credit will not be given for this course for students who have passed ME 215.
Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238.
Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238

ME215 Thermodynamics I
Hours 3
Properties of matter; processes in fluids; zeroth; first and second laws; irreversibility.
Prerequisite(s): MATH 126 or MATH 146 or MATH 132

ME216 Thermal Engineering Survey
Hours 3
Survey of thermal engineering topics for engineers outside mechanical engineering. To include an overview of subjects typically covered in courses about fluid mechanics, thermo-dynamics I and II, and heat transfer. An emphasis is placed on qualitative concepts of transport and conservation as they relate to thermal-fluids in order to increase the understanding of thermal engineering applications.
Prerequisite(s): MATH 126 or MATH 146

ME305 Thermodynamics II
Hours 3
Thermodynamic cycle analysis; thermodynamics of non-reacting and reacting mixtures; and chemical equilibrium.
Prerequisite(s): ME 215; and MATH 227 or MATH 247

ME308 Propulsion Systems
Hours 3
Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance and advanced propulsion systems.
Prerequisite(s): ME 305

ME309 Heat Transfer
Hours 3
Steady and unsteady conduction, convection and radiation heat transfer.
Prerequisite(s): MATH 238 and ME 215 and AEM 311
ME349 Engineering Analysis
C
Hours 3
Elements of statistics, matrix algebra, numerical analysis, and partial
differential equations applied to engineering problems; includes extensive
computer applications. Computing proficiency is required for a passing
grade in this course.
Prerequisite(s): MATH 238 and GES 132 or ENGR 141 or ENGR 103

Computer Science

ME350 Static Machine Components
Hours 4
The analysis of stresses of machine elements and the topics of fatigue
strength, wear and failure criteria. Also includes the design of fasteners
covering both bolted and welded joints, as well as an introduction to finite
element analysis.
Prerequisite(s): AEM 250 and AEM 251 and DR 125 or ART 131 or
ENGR 161

ME360 Ctrl Instrumnt Components
W
Hours 3
Introduction to selection and use of electrical, pneumatic, and other
components of mechanical system instrumentation and control. Specific
components include modern electrical measurement devices, signal
conditioning, force and torque measurement, proximity sensors, AC and
DC motors, etc. Writing proficiency is required for a passing grade in this
course.
Prerequisite(s): AEM 250; and ECE 320 or ECE 225

Writing

ME364 Vehicle Dynamics
Hours 3
Dynamics of four-wheeled vehicles, including acceleration and
braking performance, road loads, ride comfort, steady-state cornering,
suspensions, steering systems, and rollover. Vehicle dynamics system
modeling programs are introduced and used for detailed investigations of
the effect of system design parameters on performance.
Prerequisite(s): AEM 264

ME372 Dynamic Systems
C
Hours 3
An introduction to the modeling, analysis and control of dynamic
systems. The course takes the student from initial modeling through
analysis of the system response and finally into the control of the
system. Specific systems include mechanical devices, electrical circuits,
and electromechanical systems. Computing proficiency is required for a
passing grade in this course.
Prerequisite(s): MATH 238 and AEM 264 and ME 349; and ECE 320 or
ECE 225

Computer Science

ME377 Noise Control
Hours 3
Physical properties of noise; hearing and noise criteria measurement
techniques; and noise-control fundamentals applied to practical
problems.
Prerequisite(s): MATH 238, and PH 106 or PH 126

ME383 Modern Manufacturg Processes
Hours 3
A survey of classical and modern manufacturing processes. Emphasis
is on technical fundamentals and practical applications. Components
include geometric and service attributes of manufactured products, metal
casting processes, forming processes, machine processes and joining
processes. Practical project experience included.
Prerequisite(s): AEM 250 and AEM 251 and DR 125 or ART 131 or
ENGR 161

ME406 Thermal Power Systems
Hours 3
Study of thermal systems emphasizing large power generation
systems. Topics include Rankine and gas turbine cycles, fossil fuels
combustion, boiler characteristics, cogeneration, combined cycle plants,
environmental effects of power generation, and alternative energy
concepts.
Prerequisite(s): ME 305

ME407 Heatg Ventilat Air-Condg
Hours 3
Fundamentals and practice associated with heating, ventilating and
air conditioning; study of heat and moisture flow in structures, energy
consumption, human comfort and health; and design of practical
systems.
Prerequisite(s): ME 309 and ME 305

ME416 Energy Conservtn & Manag
Hours 3
Analysis of energy systems, including fossil fuels, steam, cogeneration,
waste heat recovery, heating, ventilation, air-conditioning, control and
energy-management systems. Topics include conservation in electrical
load, lighting, building envelope, and insulation; alternative energy
sources; economic analysis; energy auditing; and fuel sources and
supplies.
Prerequisite(s): ME 309 and ME 305 and ECE 320 or ECE 225

ME417 Sustainable Energy
Hours 3
Contemporary issues surrounding the challenge of providing energy for
societal and economic development are examined. Depletion of fossil
fuel resources and the impact of fossil fuel use on the environment
and climate are considered. Alternative Sustainable sources of energy
production are explored.
Prerequisite(s): ME 215
ME418 Combustion Engines
Hours 3
Theory, design, and performance of combustion engines; fuels, oxidants, and propellants; and combustion, dissociation, ionization, and engine emissions.
Prerequisite(s): ME 305

ME421 Reliability Maint & TPM
Hours 3
Measures and methods of reliability engineering, maintainability engineering and total productive maintenance, as used in the system design process.
Prerequisite(s): GES 255 or GES 500

ME430 Fuzzy Set Theory & Application
Hours 3
This course introduces fuzzy set theory and its engineering applications to upper-class undergraduate students.
Prerequisite(s): GES 255 OR GES 400/500 OR ME 349 AND Instructors Approval

ME450 Dynamic Machine Components
Hours 3
This course covers the selection and application of machine elements in dynamic systems. Specific components covered include transmission elements (gears and pulleys), mechanisms (linkages and cams), shafting, bearing systems and prime movers.
Prerequisite(s): AEM 264 and ME 350

ME460 Energy Systems: Analysis and Measurement W
Hours 4
Selection and use of basic thermal systems measurement instrumentation. Techniques of analysis and design of thermal systems, including piping networks, heat exchangers, and pumping systems. Hands on experience with these systems. Statistical design of experiments. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): ME 309 & ME 360 - each must have a minimum grade of C-

ME470 Mechanical Vibrations
Hours 3
Free and forced vibrations, both undamped and damped, and systems with many degrees of freedom formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.
Prerequisite(s): ME 372 and AEM 250

ME471 Fundamentl Of Acoustics
Hours 3
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements, and the associated instrumentation.
Prerequisite(s): MATH 238, and PH 106 or PH 126, and ECE 225 or ECE 320

ME475 Control Systems Analysis
Hours 3
Classical and modern feedback-control system analysis; block diagrams, state variables, stability, root locus and computerized analysis. Includes an introduction to modern control techniques.
Prerequisite(s): ME 349 and ME 372

ME483 Computer-Aided Manufacturing
Hours 3
Introduction and application of several technologies used in computer-aided design/manufacturing; computer-aided design, solid modeling, rapid prototyping, geometric dimensioning and tolerancing, machining process optimization, NC programming CNC machines, software-based product, and process design in machining.
Prerequisite(s): ME 383

ME485 Intro to Computer-Aided Design
Hours 3
Basics of computer-aided design, including solid modeling, model assembly, structural and thermal analysis, mechanism simulation and parametric/optimization study. Interactive computer programs are used to design and analyze mechanical components/devices.
Prerequisite(s): ENGR 161, AEM 250 and ME 309

ME489 Mechanical Engg Design I
Hours 3
Introduction to concepts and techniques of engineering design with supporting mathematical material. Guest lecturers present professional aspects of engineering. The Capstone Design Project is begun and carried on through ME 490 (ME 489 and ME 490 are taken in consecutive semesters).
Prerequisite(s): ME 305 and ME 309 and ME 350

ME490 Mechanicl Engr Design II
Hours 3
In this semester-long internship experience, three-student teams serve as consultants to an industrial client. Emphasis is on conducting a professional design study and preparing written and oral presentations of the project.
Prerequisite(s): ME 489

ME491 Special Problems
Hours 1-6
This is a special topics lecture class or an assigned problem class. Credit is based on the amount of work undertaken.

ME497 Mech Engineerg Project
Hours 1-3
An individual analytical, experimental or design project. Research on an assigned problem culminates in a required report.
MTE121 Introduction to Materials
Hours 1
An introduction to the materials science and engineering profession and history. The course includes selected topics useful in the study of metallurgical and materials engineering.

MTE252 Metallurgical Process Calculations
Hours 3
Mathematical quantitative relations of chemical reactions and physicochemical processes; principles of overall mass and energy balances and the application of these principles to metallurgical systems.
Prerequisite(s): CH 102, ENGR 103, and MATH 125

MTE271 Engineering Materials : Structure and Properties
Hours 3
Basic structure of ceramics, alloys, composites, metals, and polymers. Relationships between the structure of materials and their mechanical, electrical, magnetic, thermal, and chemical properties.
Prerequisite(s): CH 101 or CH 117; MATH 125 or MATH 145

MTE275 Engineering Materials Laboratory
Hours 3
Alloy preparation and processing of materials. Materials testing and evaluation, laboratory procedures and techniques, metallography, heat treatment, phase diagrams, hardenability, and mechanical testing. Introduction to technical report writing and application to written laboratory reports.
Prerequisite(s): EN 101
Prerequisite(s) with concurrency: MTE 271

MTE353 Transport
Hours 3
Definition of viscosity, elements of laminar and turbulent flow, and overall mechanical energy balance. Thermal conductivity, steady and transient conduction problems, forced and natural convection, heat transfer, and radiative heat transfer. Definition of binary diffusivity, convection mass transfer, and mass transfer coefficient. The application of the principles covered in the design of specific metallurgical systems.
Prerequisite(s): MATH 238 and MTE 252
Prerequisite(s) with concurrency: MATH 238

MTE373 Physical Metallurgy
W
Hours 4
Introduction to the principles of physical metallurgy. Topics include crystal structure, deformation, dislocations, point defects, diffusion, phase diagrams, interfaces, nucleation theory, transformations, and growth. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): MTE 271 and MTE 362
Writing

MTE380 Synthesis, Processing and Manufacturing of Materials
Hours 3
Materials Processing fundamentals as they affect dimensions and microstructure of materials and their application in engineering practice. Survey of classical and modern manufacturing processes for engineering materials.
Prerequisite(s): MTE 271

MTE412 Polymer Materials Engineering
Hours 3
Introduction to the manufacture, processing and applications of organic polymeric materials. The chemistry of polymer manufacture, the molecular structure of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers are covered.
Prerequisite(s): CH 102

MTE416 Fundamentals of Foundry Processing
C
Hours 4
Metal casting principles including pattern design, molding materials, conventional and digital molding methods, sand testing, solidification, risering and gating of castings, casting and mold design, microstructure and casting defects and their influence on mechanical properties. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MTE 362 and MTE 380
Computer Science

MTE439 Metallurgy Of Welding
Hours 3
Thermal, chemical, and mechanical aspects of welding using fusion welding processes. The metallurgical aspects of welding, including microstructure and properties of the weld, are also included.
Prerequisite(s): MTE 380 or permission of instructor

MTE441 Chemical Metallurgy
Hours 4
Application of thermodynamics, fluid flow, and heat and mass transfer to the design and operation of chemical metallurgical processes; roasting, agglomerating, oxidation and reduction reactions, smelting, converting, and refining.
Prerequisite(s): MTE 353 and MTE 362
Prerequisite(s) with concurrency: MTE 443
MTE443 Materials Engineering Design I  
Hours 3

Principles of engineering design. Problem formulation, concept design, configuration design, parametric design, detail design, materials selection, manufacturing process selection, prototyping, project planning and cost analysis, application of computer-based design tools, concepts of shared responsibility, teamwork and communication. Analysis of problems, design and development solutions. Oral presentations and written reports. A project will be assigned. Final project presentations will be evaluated by the MTE faculty.

Prerequisite(s): EC 110, MTE 362, 373, 380
Prerequisite(s) with concurrency: MTE 441 and MTE 481

MTE445 Materials Engineering Design II (W)  
Hours 3

Capstone design course. Students work in teams on design projects which involve evaluation of industrial based metallurgical or materials problems and emphasize societal impact. Implementation of design principles and the research plan developed in MTE 443. Interim and final design reviews with oral presentations and written reports. Final project presentation will be evaluated by the MTE faculty. Writing proficiency is required for a passing grade in this course.

Prerequisite(s): MTE 416, 441, 443, 455, and 481

MTE449 Powder Metallurgy  
Hours 3

The course will cover the topic of powder metallurgy, describing the various types of powder processing and how these affect properties of the components made. Current issues in the subject area, from high production to nanomaterials will be discussed.

Prerequisite(s): MTE 373 and MTE 380

MTE450 Plasma Processing of Thin Films  
Hours 3

This course will cover fundamental technology involved in thin film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed, with special emphasis on sputtering tools. A range of thin film applications will be explored, with examples of magnetics, semiconductor, optical, and medical applications. The fundamentals of process optimization using a Design of Experiments will be taught with a test case of process optimization for the final exam.

Prerequisite(s): PH 106 or PH 126, and CH 102, or permission of instructor.

MTE455 Mechanical Behavior Of Materials  
Hours 4

Flow and fracture of solids; uniaxial stress-strain as a reference behavior; theories of terminal stability under impact; monotonic, sustained (creep), and repeated (fatigue) loadings of solids under various states of stress.

Prerequisite(s): AEM 201 or permission of instructor.

MTE467 Strengthening Mechanisms in Materials  
Hours 3

Mechanisms and micromechanics of strengthening in engineering materials. This course covers the physical phenomena that contribute towards high mechanical strength in engineering materials. Principles for designing high strength materials will be addressed.

Prerequisite(s): MTE 455 or equivalent; or permission from instructor

MTE476 Physical Ceramics  
Hours 3

Topics include ceramic raw materials, refractories, thermal properties, mechanical properties, processing, advanced ceramics, etc.

Prerequisite(s): MTE 353 and MTE 362 and MTE 373

MTE481 Analytical Methods For Materials W  
Hours 4

Crystallography, physics of X-rays, diffraction by crystalline materials, applications of X-ray, electron and neutron diffraction, and spectrometric analysis of materials. Writing proficiency is required for a passing grade in this course.

Prerequisite(s): MTE 271 and MTE 373 or permission of instructor.

Writing

MTE487 Corrosion Science & Engineering  
Hours 3

The course is aimed at investigating the underlying fundamental causes of corrosion problems and failures. Emphasis is placed on the electrochemical reactions occurring and the tools and knowledge necessary for predicting corrosion, measuring corrosion rates, and combining these with prevention and materials selection.

Prerequisite(s): MTE 271 and CH 102 or permission of instructor.

MTE491 Special Problems  
Hours 1-3

An assigned problem is explored individually. Credit is based on the amount of work undertaken.

MTE492 Special Problems  
Hours 1-3

An assigned problem is explored individually. Credit is based on the amount of work undertaken.

College of Human Environmental Sciences Courses

ATR257 Intro to Athletic Training  
Hours 3

The study of current principles in the prevention, examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

ATR258 Clinical Fundamentals  
Hours 1

The study and practice of clinical skills in the prevention, examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses. Directed observations under the guidance of BOC certified athletic trainers.
ATR272 First Aid, Safety & CPR
Hours 1
The discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children and adults and AED use.

ATR300 Foundations in AT
Hours 3
Study and discussion of topics and clinical skills related to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses. Introduction to healthcare administration.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 310

ATR305 Clinical Biomechanics for Healthcare Professionals
Hours 3
This course is a review of external and internal forces on the body. It will explore both the statics and dynamics of motion including kinetics and kinematics. This course will also explore a variety of issues of human movement related to exercise/sport and injury.
Prerequisite(s): ATR 257
Prerequisite(s) with concurrency: BSC 215; BSC 216

ATR310 Clinical Skills I
Hours 1
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified and Alabama Licensed Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272
Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 300

ATR320 Integration of Clinical Skills in AT II
Hours 1
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on the lower extremity. Clinical experiences under the direct supervision of BOC Certified and Alabama Licensed Athletic Trainers.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and NHM 315
Prerequisite(s) with concurrency: ATR 357 and BSC 216 and KIN 365

ATR357 Examination, Assessment & Diagnosis I
Hours 3
Study of the lower extremities as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.
Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and BSC 216 and KIN 365 and ATR 320
Prerequisite(s) with concurrency: BSC 216 and KIN 365 and ATR 320

ATR358 Examination, Assessment & Diagnosis II
Hours 3
Study of the upper extremities as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: ATR 457 and ATR 410 and PH 101

ATR360 Examination, Assessment & Diagnosis III
Hours 3
Study of the head, neck, face, abdomen, thorax and thoracic and lumbar spines as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 420 and ATR 456 and KIN 492

ATR410 Integration of Clinical Skills in AT III
Hours 1
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of credentialed medical and allied medical professionals.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 457

ATR420 Integration of Clinical Skills in AT IV
Hours 1
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of credentialed medical and allied medical professionals.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: KIN 492 and ATR 360 and ATR 456
ATR430 Integration of Clinical Skills in AT V
Hours 1
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well organized healthcare program. Clinical experiences under the direct supervision of credentialed medical and allied medical professionals.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 454 and ATR 455

ATR440 Integration of Clinical Skills in Athletic Training VI
Hours 1
Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and post-surgical rehabilitation. Clinical experiences under the direct supervision of trained preceptors.
Prerequisite(s): admission to the AT Professional Program, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 453, ATR 456, ATR 457, BSC 215, BSC 216, KIN 365, KIN 492, NHM 315 & PH 101
Prerequisite(s) with concurrency: ATR 458

ATR453 Appl Clin Res Skills
Hours 3
Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410

ATR454 Healthcare Administration in AT
Hours 3
Current theories, methods and techniques in the organization and administration of athletic training programs.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 455

ATR455 Pharmacology and Pathology in AT
Hours 3
The study of acute and chronic illnesses and their response to and the impact on, physical activity. Discussion of pharmacologic agents used in the therapeutic intervention of common acute and chronic illnesses.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 454

ATR456 Therapeutic Intervention II: Rehabilitation & Reconditioning
Hours 3
Methods, theories and techniques in the rehabilitation and reconditioning of injuries. The examination, assessment and diagnosis of injuries relative to rehabilitation and reconditioning.
Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: ATR 360 and ATR 420 and KIN 492

ATR457 Therapeutic Intervention I: Therapeutic Modalities
Hours 3
Current theories, methods and techniques in the application of therapeutic modalities during the treatment of injuries. The examination, assessment and diagnosis of injuries relative to therapeutic modalities.
Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365 and ATR 300 and ATR 310 and ATR 357 and ATR 360
Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410

ATR458 Seminar in AT
W
Hours 3
Discussion of current issues in athletic training with an emphasis on the application of current research to the practice of athletic training. Writing proficiency within this discipline is required for passing grade in this course.
Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457, BSC 215, BSC 216, PH 101, NHM 315, KIN 365, KIN 492
Prerequisite(s) with concurrency: ATR 440

Writing

ATR488 Internship in Athl Training
Hours 1-12
Directed internship in a health care facility for the senior athletic training student.

ATR496 Ind Study Athletic Training
Hours 1-12
Independent study of skills and topics in athletic training for the senior athletic training student.
CSM101 Introduction to Digital Tools
Hours 3
Students are expected to demonstrate basic proficiency in the word processing, presentation, and spreadsheet tools as well as other emerging productivity tool sets. Specific emphasis is placed on introducing skills and uses related to data storage applications, basic technology privacy and security issues, mobile device applications, social media, communications technology, and work-place applications. Students exit this class with a basic introduction to each topic and other emerging topics deemed relevant for today’s digital citizens, consumers, and professionals.

CSM116 Quantitative Methods of Financ
MA
Hours 3
This three-credit hour course is intended to develop mathematical fluency within the context of financial planning/literacy. It is broad in scope and content rather than specific to a particular discipline, is an introduction to the basic tools and techniques necessary for the development of a successful personal financial plan over one’s life span and emphasizes the use of mathematical techniques as a tool for analysis. CSM 116 includes topics such as real and nominal rates of return, probability, and algebra functions. An emphasis is placed on mathematical reasoning in solving financial problems. It uniquely serves as a course for students not intending to pursue further study in mathematics, science, or engineering, but for students who will be able to utilize mathematical tools to make sound financial decisions. Students will apply practical skills by setting and reaching financial goals as elements of an integrated system, manipulation of quantitative data, calculating future financial needs, and using mathematical induction formulas and tools to determine predictability of expected outcomes. The course commences with money management and credit use, progresses to investments, insurance, retirement planning, and culminates in wealth accumulation and estate planning as the basis for mathematical problem solving exercises. CSM 116 is designed to provide a foundation both for further study and for personal enrichment. Grades are reported as A, B, C, or NC (No Credit).
Prerequisite(s): MATH 100

Mathematics

CSM201 Indiv Family Resourc Mgt
Hours 3
Management of human, material, and environmental resources to accomplish value-based goals. Highlights importance of decision making to achieve satisfaction and improve quality of life across the family life cycle.

CSM204 Intro Personl Finan Plan
Hours 3
The course presents financial planning within the context of the family life cycle and the consumer decision-making framework. It provides an overview of topics such as family financial goal setting, budgeting, risk management, savings, and investments.

CSM300 Time Value of Money & Financial Calculations
Hours 1
The focus of this course is to develop a better understanding of the Time Value of Money concept and the types of financial calculations that will be required in courses such as Introduction to Investment Planning, Asset Management, Retirement Planning and the Capstone Course in Financial Planning.
Prerequisite(s) with concurrency: CSM 204

CSM303 Introduction to Consumer Economics
Hours 3
This course will focus on the role of the consumer in the economy and concepts underlying consumer economics. Emphasis is on the consumer in the marketplace; consumer choice; information search; consumer protection, including redress; and consumer affairs as a profession. This course will be a review of some topics from lower level classes and a preview of topics that will be covered in upper level classes concerning consumers and their role in the economy.

CSM381 Consumer Marketing Management
Hours 3
Principles of consumer-oriented marketing management with emphasis on consumer decision-making theory and practice.

CSM390 Field Experience
Hours 1-6
Supervised experiences in the areas of consumer affairs or family financial planning with government, business, or industry.

CSM400 Personal Insurance Plan & Mgt
Hours 3
Survey of myriad of personal risks facing consumers and families throughout the life cycle. Emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.
Prerequisite(s): CSM 201 and CSM 204

CSM401 Consumer Protection
W
Hours 3
Laws and agencies affecting the consumer’s well-being, sources of consumer information, discussion of current consumer issues. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

CSM403 Consumer Economics
Hours 3
The role of the consumer in the economy. Economic analysis of market and nonmarket consumption activities, incorporating relevant social, psychological, political, and ecological considerations.

CSM404 Personal Investment Plan & Mgt
Hours 3
Concepts and techniques related to family financial investments.
Prerequisite(s): CSM 201 and CSM 204
CSM405 Public Policy
Hours 3
A detailed analysis of U.S. public policy, recognizing the broader social and economic impacts of selected policies. Students will develop a better understanding of how and why specific policies are implemented and assess the strengths and weaknesses of different policy structures.

CSM410 Pers Retire Plan Employ Benefs
Hours 3
Fundamentals for personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 201 and CSM 204

CSM414 Personal Investment Planning & Management II
Hours 3
This course expands upon the content of CSM 404/504, adding a number of new concepts that are relevant to understanding the management of investments for family and individual goal attainment. Lectures, readings, case studies, and problem sets are designed to help students in preparing for the Investment Planning section of the Certified Financial Planner™ examination.
Prerequisite(s): CSM 404

CSM415 Customer Service Management
Hours 3
An in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Analysis of consumer needs, complaints, and education.

CSM420 Personal Estate Planning
Hours 3
Techniques of personal estate planning within the family life cycle.
Prerequisite(s): CSM 201 and CSM 204

CSM424 Addict. & Dysf. in Money Mgmt
Hours 3
CSM 424/524 is an exploration of addictions and dysfunctions related to managing money and finances and a brief guide for changing dysfunctional behavior related to money. The course does not provide training in diagnosing, but rather emphasizes describing behavior.

CSM425 Conflict Resolution for the Workplace
Hours 3
This course provides skill building and practical methods for handling organizational and personal conflicts. Appropriate for the student who has received no formal preparation in managing conflict, and also for the professional who is educated in conflict theory and negotiation strategy, but needs grounding in basic interpersonal communication and management skills, such as rapport building, empathic listening, behavior modeling, reframing, problem solving, and decision making.

CSM427 Emotional Intelligence: The Personal Qualities of the Negotiator
Hours 3
This course teaches students to accurately identify and express emotions, and to develop and improve the emotional intelligence skills essential to managing conflict successfully. Students are directed through a series of self-evaluations to determine their current skill levels, learn the characteristics of specific skills, and apply and model the new learning. Students learn to break the habit of emotional reactivity and to model emotional proactivity.

CSM428 Processes of Negotiation
Hours 3
This course deepens students' understanding of negotiation skills that can be used across a variety of settings. Students explore best practices in negotiation and learn to identify and apply optimal strategies. The dynamics of negotiating across diverse cultures and contexts are also examined.

CSM430 Family & Consumer Law for Non-Lawyers
Hours 3
The study of family law for non-lawyers. Topics include marriage, divorce, custody, child support, alimony and property division, and the role of alternative dispute resolution in the family law setting, including mediation, private judges, and collaborative practice. Students will acquire a general understanding of legal terms, resources, and the legal system and its adversarial proceedings.

CSM435 Psychology Of Money
Hours 3
An innovative study of financial behaviors and their relationship to money management with emphasis placed on both theory and its application.

CSM437 Developing The Leader Within
Hours 3
An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.

CSM440 Maximizing Use of Social Media Marketing
Hours 3
In this course students will develop skills for strategic social media marketing and engagement. They will explore and utilize techniques for integrating social media marketing campaigns that serve as listening and outreach tools in building brand awareness. This course will provide a framework for online brand management and promotion for careers and majors in the college of Human Environmental Sciences.

CSM441 Consumer Communications
C, W
Hours 3
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Writing proficiency and use of the computer are required for a passing grade in this course.
Prerequisite(s): CS 102 or CSM 101
Computer Science, Writing
CSM445 Applied Digital Tools
   C
   Hours 3
   The course encompasses a collection of technical skills beyond basic
   computer applications; content is focused on the use of technology in
   real-world contexts, such as the digital consumer society and digital
   workplaces. Students are expected to demonstrate applied proficiency
   in word processing, presentation, and spreadsheet tools (by major) as
   well as other emerging productivity tool sets. Students exit this class
   with a variety of experiences in the use of personal technologies as well
   as those which might be encountered in a digital workplace; these may
   include applied privacy and security defense strategies, organizational
   applications, mobile device applications, and cloud-computing as applied
   in case studies and/or project-based activities. Basic computer-use
   proficiency is required for a passing grade in this course.
   Prerequisite(s): CS 102 or CSM 101
   Computer Science

CSM447 Advanced Digital Tools
   C, W
   Hours 3
   The primary content consists of student skills to live and work in a digital
   environment by developing technological skills in use and application of
digital tools, such as sophisticated mobile device applications, computer-
ediated collaboration, content management, social media and personal
branding strategies, and cloud-based applications. Students develop or
refine their virtual presence using current and appropriate tools. Course
activities include writing assignments to meet the W requirement, but
these will be integrated into other topics within the course. Writing
proficiency and computer proficiency are required for a passing grade in
this course.
   Prerequisite(s): CSM 101 or CS 102
   Computer Science, Writing

CSM451 Consumer Demographics
   W
   Hours 3
   This course will focus on developing students’ ability to understand
consumer demographics and impacts from these demographic changes.
The course will cover basic concepts and measurement issues of
demography as it relates to consumer and families. This class will also
develop student’s ability to adapt to changing trends in a dynamic world.
Writing proficiency is required for a passing grade in this course.

CSM454 Personal Income Tax Mgt Planng
   Hours 3
   An analysis of personal income tax management and planning as it
relates to consumers and families throughout the life cycle.
   Prerequisite(s): CSM 201 and CSM 204

CSM455 Consumer Analytics Methods
   Hours 3
   This course introduces research methods with an emphasis on non-
experimental research designs. Examples and exercises are drawn
from real-world research applications that inform consumer behavior
and policy. Students learn how to execute the methodologies using
software used by consumer analysts in consumer research settings.
Topics include: research design, sampling, data management, descriptive
statistics, data visualization, statistical inference, simple linear
regression, and multivariate regression.
   Prerequisite(s): ST 260 or BER 345

CSM458 Spreadsheets in Fin. Decisions
   C
   Hours 3
   The focus of this course is to develop a working knowledge of Microsoft
Excel as it may be used to analyze problems related to personal financial
planning. The course emphasizes life-cycle planning and computer
literacy. The course is designed to help students in becoming better
prepared for the actual workplace environment.
   Prerequisite(s): CSM 204 or RHM 474 or AC 210
   Computer Science

CSM459 Tech of Counsl in Cons Science
   W
   Hours 3
   This course explores the indicators, causes, and impact of financial
stress and problems on individual’s and family’s well-being. The course
emphasizes the fundamentals of counseling, communication, and
ethics for those working in professional settings to help individuals from
different backgrounds achieve personal financial goals as well as the
workplace in general. Writing proficiency within this discipline is required
for a passing grade in this course.
   Writing

CSM460 Financial Planning Case Study Capstone Course
   Hours 3
   A systems approach to financial management for individuals and families
from the perspective of planner/counselor. Focuses on analytical
techniques. Emphasizes identification and development of strategies
for meeting client goals. This course should be taken during the last
semester of the degree curriculum.
   Prerequisite(s): CSM 458 and CSM 201 and CSM 204 and CSM 400 and
CSM 404 and CSM 458

CSM461 Managing in a High Performance Organization
   Hours 3
   This course will provide an interactive exploration of management skills
that enable an individual to effectively communicate, build and lead
teams, delegate, make presentations and manage priorities to achieve
success.

CSM462 Financial Planning Practice Management
   Hours 3
   An in-depth look at the professional side of careers in Consumer
Sciences. Experiential activities, guest speakers, faculty lecturers and
student projects provide students with opportunities to learn and practice
traits, skills and abilities needed for a successful career.
CSM473 Innovation and Creativity in HES Entrepreneurship  
Hours 3  
This course introduces students to techniques to release their inner creativity and develop creativity skills needed to become successful entrepreneurs. Apply creative thinking to: conceptualize new ventures, recognize consumer trends, and find unique market niche.

CSM475 Entrepreneurship In Hes  
Hours 3  
A study of home-based businesses taught from the perspective of theory and application in family resource management.

CSM478 Social Entrepreneurship  
Hours 3  
This seminar will explore how the ideas of social entrepreneurs have provided innovative solutions to some of the world’s most systemic problems and why more social entrepreneurs will be needed in the 21st century. To study, understand and prepare oneself to become, or appreciate social entrepreneurs is a relatively new field of academic interest. It requires that students be creative thinkers and willing to inform themselves about current economic, political and social issues so they begin to understand the complexity surrounding the world’s most challenging problems.

CSM480 E-Commerce@Human Envir Science  
Hours 3  
Offers sound advice and vital practical help on developing an idea into a business on the Internet, addressing areas of specialization in human environmental sciences.

CSM486 Principled Negotiation  
Hours 3  
An in-depth study of principled, interest-based negotiation, which replaces adversarial approaches with problem-solving. Students formulate a personal strategy of thoughtful introspection with the goal of satisfying interests on all sides of a conflict and strengthening relationships among conflict partners.

CSM490 Individual Study  
Hours 1-6  
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM491 Individual Study  
Hours 1-6  
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM492 Individual Study  
Hours 1-6  
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM493 Individual Study  
Hours 1-6  
Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

CSM499 Undergraduate Rsch  
Hours 3  
Under faculty supervision, student will participate in a research project.

CTD102 Applied Design  
Hours 3  
Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD121 Intro Interior Design  
Hours 3  
Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two laboratories, one lecture.

CTD141 Intro to Apparel Design  
Hours 3  
An introduction to the business of fashion with focus on the apparel designer’s role. Open to apparel design majors only.  
Prerequisite(s): None

CTD215 Introduction to Rendering  
Hours 3  
An introduction to achromatic and contemporary color graphics media used in sketching, rendering and design drawings, with emphasis on schematics used in problem solving and rapid rendering techniques for interior delineation.  
Prerequisite(s): CTD 121

CTD216 Beginning Weaving  
Hours 3  
Study of original design in loom weaving techniques; dressing the loom; drafting designs; and weaving and finishing procedures. Offered irregularly. Two laboratories.

CTD217 Fashion Illustration  
Hours 3  
Emphasis is on the development of the fashion figure, design details, fabric rendering, flats, customer profile analysis, and collection development. In addition, students using advanced computer design software, create original digital design layouts of their work. Two lectures, one laboratory.  
Prerequisite(s): CTD 102 and ART 110

CTD221 Matl Source Int Design  
Hours 3  
Study of manufacturers’ products for residential and nonresidential interior design; construction materials, finishes, furniture and furnishings. Offered in the fall semester.  
Prerequisite(s) with concurrency: CTD 102 and CTD 121

CTD225 Residnt Des/Graphic Comm  
Hours 3  
Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of programming, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.  
Prerequisite(s): CTD 121 or Permission of Instructor
CTD226 Nonresidential Design
Hours 3
Fundamentals of nonresidential interior design with emphasis on presentation graphics. Exploration of programming, spatial organization, and codes and standards for the business environment. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 225

CTD231 Sewn Products Analysis
Hours 3
Structural analysis of textile products for apparel and household use. Focus on products, standards, specifications, and relationships among performance, quality, and price.
Prerequisite(s): CTD 261 CTD 281

CTD241 Apparel Construction
Hours 3
Introduction to apparel producer-retailer relationships. Emphasis on quality control and time management in meeting apparel specifications through application of apparel construction, fitting, and pattern alteration principles. Two laboratories.
Prerequisite(s): CTD 141

CTD245 Apparel Production
Hours 3
Team approach to apparel product development including market research, design concepts, garment specification writing, sourcing, costing, production, quality control, and promotional materials. Offered in the spring semester. Two laboratories.
Prerequisite(s): CTD 241

CTD250 Construction Procedures for Interior Design
Hours 3
Building construction for interior designers with emphasis on architectural procedures and systems including electrical, plumbing, lighting, acoustical, and thermal control.

CTD255 Comp Appl for Interior Design
C
Hours 3
This course will provide students with a basic understanding of computer software applications and project documentation commonly used in interior design. Software introduced includes: Photoshop, InDesign, Sketchup, and 3D Studio Max. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CTD 226 CS 102

CTD261 Textiles
Hours 3

CTD281 Fundamentals of the Fashion Industry
Hours 3
Organization, promotion methods, and interrelationship of the textiles, apparel, and retailing industries. Includes consumer demand and diffusion of fashion. Offered in the fall semester.

CTD292 Trend Analysis and Fashion Forecasting
Hours 3
This class provides an overview of theories and techniques for identifying and utilizing consumer, aesthetic, and quantitative trends. Survey understanding the methods for determining past, current, and future trends within and between the disciplines of forecasting - textiles, color and style forecasting.
Prerequisite(s): CTD 281 CTD 261

CTD301 I. D. New York Study Tour
Hours 3
To provide experiences which will increase the students’ knowledge of modern furniture, textiles, artwork and architecture through a variety of learning experiences. A review of 20th century furniture design, class discussions, an assigned research paper and presentation, the design of a chair, attendance at the International Contemporary Furniture Fair, as well as presentations by professionals in New York City, are among the varied learning opportunities presented in this course.

CTD302 Fashion Capitals Study Abroad Tour- New York, London, Paris, & Milan
Hours 4
A course designed to provide new and diverse experiences to increase understanding of the fashion, apparel, and textile-related industries through design, merchandising and retailing venues in the four major fashion capitals of the world (New York, London, Paris, and Milan). Range of learning environments promoted, including class discussions, company profile reports, assigned readings, journaling and presentations by professionals in the fashion industries of the four cities.
Prerequisite(s): CTD 281, Minimum 2.5 GPA

CTD319 Textile Design
Hours 3
Using the latest computerized design systems, students create original designs, repeats, colorways, and coordinates targeting specific markets. Emphasis is on the creative use of advanced software, awareness of industry trends and the development of an original portfolio of digitally produced designs.
Prerequisite(s): CTD 102

CTD320 Visual Merchandising
Hours 3
Introduces contemporary display techniques, equipment, and materials for designing three-dimensional product presentations within the retail environment. Using advanced computer software, students create and execute original visual programs and storewide promotions. Two lectures, one laboratory.
Prerequisite(s): CTD 102 or CTD 292, and CTD 281
CTD321 History of Interiors I  
Hours 3  
Study of the furnishings, interior treatments, and lifespaces characteristic of selected styles from antiquity to the present. Offered in the Fall semester.  
Prerequisite(s): CTD 226

CTD323 Interior Design Internship Sem  
Hours 1  
Exploration of internship possibilities and requirements, development of job-search skills and internship placement.  
Prerequisite(s): CTD 325

CTD325 Design For Special Populations  
Hours 4  
Design of interior environments for persons with special needs such as health care, rehabilitation, education, and congregate-care interiors. Cabinet and millwork design. Offered in the fall semester. One lecture, two laboratories.  
Prerequisite(s): CTD 226

CTD326 Design For Hospitality Interio  
Hours 4  
Planning and design of interior spaces; project management; design and specification of interior architectural materials and furnishings. Offered in the spring semester. One lecture, two laboratories.  
Prerequisite(s): CTD 325

CTD328 Prof Proced Interior Des  
Hours 3  
Philosophy and organization of professional practice; studio management, contracts, budgets, specifications, professional organizations and prep for LEED certification. Offered in the spring semester.  
Prerequisite(s) with concurrency: CTD 371 and CTD 326

CTD330 Autocad for Interior Design  
Hours 3  
Principles, terminology, command sequencing and execution, and equipment use for computer-aided design applications within the field of interior design. Review of basic commands with emphasis on intermediate and advanced applications.  
Prerequisite(s): CS 102

CTD340 Portfolio Development  
Hours 3  
Dedicated to the study and completion of a student portfolio.  

CTD341 Italian Fashion  
Hours 3  
Students travel to Italy to research and experience the influence of culture on the fashion industry.  
Prerequisite(s): CTD 281

CTD349 Compt-Aid Apparel Design  
Hours 3  
Application of computer technology to fashion illustration, apparel design, marker making, pattern making, and pattern grading. Offered in the spring semester. Two laboratories.  
Prerequisite(s): CTD 350

CTD350 Flat Pattern Design  
Hours 3  
Principles and procedures governing development and use of master patterns. Application of flat pattern principles to the execution of original designs. Offered in the fall semester. Two laboratories.  
Prerequisite(s): CTD 245

CTD351 Apparel Des Thru Drpng  
Hours 3  
Techniques of draping on a dress form are applied in the execution of original designs. Offered in the spring semester. Two laboratories.  
Prerequisite(s): CTD 350

CTD353 Language of Design  
Hours 3  
Writing proficiency within this discipline is required for a passing grade in this course.  
Prerequisite(s): EN 101 and EN 102; or EN 103 and CTD 121

Writing

CTD355 Global Influences on Design  
Hours 3  
This course will provide students with a basic understanding of environmental psychology of design, human behavior and movement, Italian culture, Italian fashion, and the effect these systems have on elements of design. This course provides a structure by which students can partake in a focused study of the built environment and clothing trends in Italy, within the framework of environmental design. These ideas are presented in a format that also develops the students’ writing skills as one mode of communication within Interior and Apparel Design.  
Prerequisite(s): CTD 121

CTD361 Fashion Merchandising I  
Hours 3  
This course provides a comprehensive study of the merchandising process including apparel buying and planning, elements of financial analysis, application of planning and buying principles, the wholesale selling process, and the development of problem solving skills in the context of a merchandising environment.  
Prerequisite(s): MATH 112 CS 285 AC 210  
Prerequisite(s) with concurrency: CTD 461

CTD371 Lighting For Interiors  
Hours 3  
Integration of the theory, techniques, and art of lighting design; principles, terminology, and equipment used in light distribution systems in the interior environment. Two lectures, one laboratory.  
Prerequisite(s): CTD 226
CTD381 Fashion Retailing Seminar
Hours 1
Focus on professional development and profit analysis. Exploration of internship possibilities and requirements, development of job-search skills, and internship placement. Enrollment open to students applying for fashion retailing internships. Offered in the spring semester.
Prerequisite(s) with concurrency: CTD 481

CTD387 Fashion Marketing
Hours 3
It is the purpose of the this course to provide retailing and fashion design students with a marketing course that focuses on the fashion industry. Course Description - Apply the four Ps of the marketing concept - Price, Product, Promotion and Place - to the fashion industry, including branding, promotion, international marketing, and consumer behavior as related to the fashion industry.
Prerequisite(s): CTD 281

CTD415 History Textile Design
W
Hours 3
Study of the history of textiles emphasizing the influence of cultural factors. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.
Writing

CTD422 Research and Theory for Interior Design
W
Hours 3
Study of research methods and design theories utilizing historical knowledge from CTD 321. Writing proficiency within this discipline is required for a passing grade in this course. Offered in the spring semester.
Writing

CTD423 Intern Interior Design
Hours 3
Experience in interior design or related business under supervision of advisor and the business management. Offered during the summer session.

CTD425 Advanced Residential Design
Hours 4
Problems in design of the home environment; individual and group problem solving. Emphasis is on historic preservation principles and practices for interior designers. Offered in the fall semester. One lecture, two laboratories.
Prerequisite(s): CTD 326

CTD426 Advanced Design
Hours 4
Problems in design of business and professional interiors; construction drawings using computer-assisted design; individual and group problem solving. Requires senior thesis. Offered in the spring semester. One lecture, two laboratories.
Prerequisite(s): CTD 425

CTD427 Advanced Computer Applications in Design
C
Hours 3
This course will provide students with an overview of computer software applications and project documentation commonly used in design. The course will provide an overview and introduction to Revit and 3d studio max. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 and CTD 250
Computer Science

CTD446 Cult Dynam Apparel Text
Hours 3
Impact of cultural dynamics on apparel and textile production and marketing. Offered in the spring semester.

CTD447 Text Apparel Intnat Trade
W
Hours 3
Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): EC 110 or EC 111; and CTD 281
Writing

CTD448 History Of Costume
Hours 3
Costume development from prehistoric to modern times. Study of cultural forces in relation to the evolution of costume. Offered in the fall semester.

CTD450 Advanced Apparel Design
Hours 3
Synthesis and application of design theories; procedures and processes used in the apparel industry. Development of portfolio of original design work is required. Two laboratories. Offered in the fall semester.
Prerequisite(s): CTD 350 and CTD 351

CTD455 Text Apparel Prod/Design
Hours 1-6
The course will provide students with an overview of computer software applications and project documentation commonly used in design. The Course will provide an overview and introduction to Revit and 3d studio max. The Skills are presented in a format that emphasizes use of the computer as a creative tool. Students will develop a mastery of the programs in subsequent courses. Extensive use of the computer is a condition for passing this course. While extensive use of the computer is required, this course is not approved as a C designated core course.

CTD461 Quality Control for Textiles
Hours 3
Use of standard laboratory test methods and computerized statistical data analysis to evaluate the quality of textile products. Block course. Offered in the fall semester.
Prerequisite(s): CTD 261 CTD 231 or CTD 241
CTD481 Fashion Merchandising II  
**Hours 3**  
Merchandise planning and control; techniques of merchandising, including unit and dollar assortment planning, inventory control, and procurement. Block course. Offered in the fall semester.  
Prerequisite(s): CTD 231  
Prerequisite(s) with concurrency: CTD 381  

CTD485 Intern Fashion Retailing  
**Hours 9**  
To participate, students must make application to the department by the first day of classes during the spring semester of the junior year. A grade point average of 2.50 or higher is required for the professional courses specified under "Fashion Retailing Concentration for AT Majors" in this catalog. The course involves supervised work experience in a business related to the major field of study.  
Prerequisite(s): CTD 381  

CTD498 Directed Indiv Studies  
**Hours 1-6**  
Independent Study.  

CTD499 Directed Indiv Studies  
**Hours 1-6**  
*No description available*  

HD101 Life Span Human Development  
**SB**  
**Hours 3**  
An introductory survey of basic principles of human development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial development.HD 101 counts toward the Social and Behavioral Sciences requirement of the UA Core.  

Social and Behavioral Sciences  

HD202 Child Dev-Infancy/Todlr  
**Hours 3**  
The growth and development of the child from conception to three years of age are studied. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week. HD 202 and HD 205 cannot be taken in the same semester.  
Prerequisite(s): HD 202 and HD 205  

HD203 Medical Terminology  
**Hours 2**  
A study of medical language by exploring the structure, meaning and usage of terms frequently utilized in health care settings. A basic summary of the body systems is included.  
Prerequisite(s): BSC 109, or BSC 114 and BSC 115, or BSC 215 and BSC 216, or BSC 118.  

HD205 Child Dev-Preschool  
**Hours 3**  
The growth, development, and guidance of young children from three through eight years of age are studied. Practical implications of research and major theoretical issues and observational techniques are addressed. The importance of play in fostering a broad range of developmental goals for children is stressed. Three lecture hours, one laboratory hour per week. HD 202 and HD 205 cannot be taken in the same semester.  

HD210 Understanding Addiction  
**Hours 3**  
This course is an examination of chemical addiction (e.g., drugs) and behavioral addiction (e.g., gambling). Theories of addiction, treatment of addiction, and current research on addiction will be discussed.  
Prerequisite(s): None  

HD226 Introduction To Child Life  
**Hours 3**  
Provides students with an introduction to the field of child life.  

HD262 Marriage And Family  
**Hours 3**  
A study of marriage and family relationships from a combination of sociological and psychological perspectives.  

HD302 Child Dev-Adolescence  
**Hours 3**  
Introduction to the theory of and research on development of children ages nine to the early twenties. Special attention is given to major transitions in the cognitive, social, and moral domains, as well as to psychological effects of physical maturation. Influences of the family, the schools, and peer relations on adolescent development are considered.  

HD321 Concpt Creat Exper Yng Chld  
**Hours 3**  
The principles underlying the selection, use, and value of experiences that appropriately foster concept development and creative expression in young children are examined. Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting. Three lecture hours and one-and-a-half laboratory hours per week. For majors only.  
Prerequisite(s): HD 202 and HD 205  

HD322 Conc Creat Exper Yng Chld II  
**Hours 3**  
Second in the sequence in which students examine the principles underlying the selection, use, and value of experiences that foster concept development and creative expression in young children. Students design and implement developmentally appropriate experiences for young children in a supervised laboratory setting. Three lecture hours and one-and-a-half laboratory hours per week. For majors only.  
Prerequisite(s): HD 202, HD 205 and HD 321
HD325 Problems in Child/Adolescent Development
Hours 3
Examination of typical and atypical problems during child and adolescent development. The following will be covered: (1) approaches to conceptualizing, theorizing, studying, assessing, and treating problems in development and (2) prevalence, comorbidity, etiology, and developmental course of specific childhood/adolescent disorders.
Prerequisite(s): HD 101

HD327 Assessment of Young Children
Hours 3
This course provides students with an understanding of the forms, functions, methods, and roles of assessment for planning and implementing effective early childhood programs for young children from diverse cultures and with varied learning needs. The students will gain an understanding of appropriate strategies for conducting, reporting, and decision making related to specific functions of assessment. Students are expected to become competent in the use of authentic assessment strategies to describe each child’s learning strengths and instructional needs.
Prerequisite(s): HD 202 and HD 205

HD375 Foundations of Addiction Counseling
Hours 3
Examination of essential skills in addiction counseling including screening, assessment, referral, crisis intervention, counseling skills, case management skills, and ethics.

HD382 Parent And Family Devt
Hours 3
Explores the changing nature and dynamics of parent-child relationships. Implications for parenting strategies and parent education are included.

HD399 Prior Learng Human Development
Hours 1-30
No description available

HD401 Cult Influ Child Yth Fam
W
Hours 3
This course is designed to understand race and ethnicity in its political, social and historical context. Since the culture in which we are raised as children and youth greatly influences our attitudes, beliefs, values and behaviors, it is important to gain an awareness of the cultural background of our own, as well as others' thoughts, feelings and acts. Writing proficiency within this discipline is required for a passing grade in this course. At the completion of this course, students should be able to recognize and appreciate the emotional and intellectual energies felt by a variety of subculture groups and be able to express this awareness through the written word.

HD405 Policy Issues: Family, Crime and Addictions
Hours 3
The impact of government policies on youth, adults, and families with addictions will be the focus of this course. The course will examine the intersection of addictions and crime, while exploring the policies and practices of specialty courts such as Juvenile Court, Family Court, Drug Courts and others. In addition, the students will review the current state of the family, family trends, and the implications for family policy. The varied effects that policies and programs can have on different types of families and different aspects of family functioning will be explored. The process of policy formation, implementation, evaluation and advocacy will be reviewed. Finally we will examine current economic and political forces that influence federal and state governments in development and implementation of key areas of legislation, and the impact of such policy on citizens and their families.
Prerequisite(s): None

HD412 Adult Development
W
Hours 3
Theories of and research on social, emotional, cognitive, and physical development throughout adulthood: young adulthood, middle adult years, and older adult years. Writing proficiency within this discipline is required for a passing grade in this course.

HD415 Addiction Prevention
W
Hours 3
Examination of prevention methods for substance use and addiction. Needs assessment, prevention strategies, program development, and program evaluation will be covered. Writing proficiency within this discipline is required for a passing grade in this course.

HD422 Admin Child Centers & Programs
W
Hours 3
Children's centers and programs, including child development and child life programs, are examined and evaluated. Legislation, standards, program planning, and practical aspects of financing, administration, supervision, and management are explored. Writing proficiency within this discipline is required for a passing grade in this course.

HD425 Adv Preschool Dev & Curriculum
Hours 3
This course is designed for students to understand, design, implement and evaluate appropriate curricular practices for preschool children. Developmental theories and current issues in early childhood education are examined.
HD426 Hospitalized Child Youth  
Hours 3  
Examination of the theoretical basis of the psychosocial care of children, youth, and families in health care settings. The etiology of childhood illness and disease, clinical procedures, communication techniques, and research literature are studied from a developmental perspective. 45 practicum hours are required.

HD445 Addiction and the Family  
Hours 3  
This course is an examination of the impact of substance abuse and addiction on the family as well as the influence of familial factors and family dynamics on addiction and the process of recovery.

HD450 Addiction: Treatment and Recovery  
Hours 3  
Examination of evidence-based treatment for addiction and the process of recovery from addiction.

HD451 Loss And Bereavement  
Hours 3  
Designed to give child life students opportunities for in-depth study of issues of grief and bereavement as they impact children and families. An emphasis is placed on theories of grief resolution and applications in health care settings. The class is conducted in a seminar format with out-of-class placements.

HD462 Interpersonal Relationships  
Hours 3  
The course examines the dynamics of interpersonal interaction related to the development and maintenance of relationships. Current issues and problems are explored and related to marital and family system characteristics.

HD472 Program Evaluation  
Hours 3  
Examines the principles and methods by which programs for children and families are empirically evaluated.

HD475 Human Sexuality Sex Education  
Hours 3  
Current scientific knowledge of physiological, sociological, and psychological factors influencing sexual development and relations.

HD480 Children And Divorce  
Hours 3  
Examines the effects of divorce on children's cognitive and social-personality development. Implications for helping children of divorce is included.

Prerequisite(s): HD 101 or HD 262

HD483 Methods of Family Life Education  
W  
Hours 3  
Opportunities to observe, plan, implement, and evaluate family life education programs. Standards and criteria leading to certified family life educator are overviewed. Professional responsibilities and ethics are emphasized. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): HD 382 and minimum of 90 semester hours

Writing

HD488 Senior Seminar  
Hours 2  
Examines philosophy of programs for families and children as well as issues of professional identity and influences on professional and career choices.

HD491 Direct Individ Study-Hd  
Hours 1-6  
Designed to enable students to pursue special needs and interests under supervision.

HD492 Dir Ind Study Fam Rel  
Hours 1-3  
Designed to enable students to pursue special needs and interests under supervision.

HD493 Directed Research  
Hours 1-6  
No description available

HD495 Early Childhood Ed Internship  
Hours 6-12  
Internship experience for Early Childhood Education majors only. Permission of the instructor required.

Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322

HD496 Child Life Internship  
Hours 12  
Internship experience for students in the child life concentration only. Permission of the instructor required.

Prerequisite(s): HD 202 and HD 205 and HD 321 and HD 322 and HD 426

HD497 Family Life Ed Adv Internship  
Hours 6-12  
Internship experience for students in family life education and advocacy concentration only. Permission of the instructor required.

Prerequisite(s): HD 483

HD498 Adolescent Youth Devel Intern  
Hours 6-12  
Internship experience for students in the Adolescence and Youth Development concentration only. Permission of the instructor required.

Prerequisite(s): HD 302
HD499 Internship in the Addiction Field  
Hours 6-12  
Internship experience for students in the Addiction and Recovery Major. Permission of the instructor required. Prerequisite(s): HD 210 and HD 375 and HD 415 and HD 450. Permission of the instructor required.

HES100 Freshman Compass Human Env Sci  
FCMP  
Hours 3  
Designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills.

HES103 Distance Compass HES  
Hours 3  
This course is open to incoming CHES distance learning students and provides an introduction to the nature of higher education and a general orientation to the functions, resources, and activities of The University of Alabama. Students also receive an introduction to the careers within the scope of the family and consumer sciences profession.

HES125 Reflecting on the Mentor Experience  
Hours 1  
This class provides an opportunity for college mentors to engage in dialogue and reflection on their experience as a mentor. Students will reflect on their service to better understand the local community as well as gain awareness of larger societal and educational inequalities. This class meets Wednesdays from 9:00 – 9:50 in Doster 205. Class participants must also serve as one-on-one mentors from 2:30 – 5p.m. on either Tuesday, Wednesday, or Thursday at McKenzie Court, Oakdale Elementary and Northington Elementary.

HES225 Mentoring  
Hours 3  
Provides students who are interested in becoming one-on-one mentors for at-risk elementary and middle school students with knowledge and skills needed to be successful.

HES250 Career Develop/Planning  
Hours 3  
This elective course designed for freshmen and sophomores offers students the opportunity to evaluate themselves, their abilities and interests, their personality characteristics, and their values, in order to begin forming career goals or to complete goals already set. This course will provide students with information on occupational characteristics, the career decision-making process, current issues in the career world, developing employability, job readiness, and job search techniques. Restricted to students outside the College of Human Environmental Sciences.

HES275 Leadership Develop Thru Serv  
Hours 1-3  
Encourages volunteerism as a way to develop leadership skills and a sense of responsibility to one's community as advocates for service. Students are provided with a list of nonprofit service agencies in Tuscaloosa, from which they may choose. Students may submit alternative sites for approval by the instructor. Students must provide their own transportation to the volunteer site.

HES310 Issues Human Envir Sciences  
Hours 3  
History and philosophy of human environmental sciences; present and future societal issues and their implications for the profession and professional procedures.

HES350 Issues in Career Development  
Hours 3  
This elective course is designed for juniors and seniors to prepare them for reaching their career goals. The focus of this course will be on helping students match their skills, interests and academic background with a good fit for them in today's work environment. This course will provide students with information on occupational characteristics, fine tuning their the career decision-making process, current issues in the career world, developing skills for identifying the best career, marketing themselves, applying for jobs/internships, and interviewing techniques to ensure career goals are met.

HES390 Practicum Human Envir Sciences  
Hours 3-6  
Provides students with an opportunity to apply classroom knowledge in a work setting appropriate with career goals.

HES399 Prior Learning In Hes  
Hours 0-30  
Prior Learning in HES.

HES450 Volunteer & Civic Respon  
W  
Hours 3  
This seminar helps students develop the understanding and skills necessary for the service of volunteering. The course emphasizes framing civic responsibility for discussion and leading the decision of volunteerism. The purpose of this course is to encourage a spirit of volunteerism, community service and civic responsibility as a way to develop leadership as well as responsibility to one's community. Students are placed with a non-profit service agency within the Tuscaloosa area. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HES452 Trends & Issues  
Hours 3  
Course developed for sport professionals to gain knowledge and understanding of contemporary trends and issues in sport management.

HES459 International Strategies in Sports Management  
Hours 3  
Indepth analysis for sport professionals to study and review management and leadership strategies in various sport organizations.

HES460 Sports Business Management  
Hours 3  
This course is designed for student/prospective sport industry professional desiring to increase their knowledge and understanding of current issues in sports business management and the sport industry.
HES485 Self-managed Mentoring

W

Hours 3

This web-based course explores self-development of the individual and mentoring as a part of leadership development. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HES490 Indiv Stdy Human Envir Science

Hours 1-6

Individual study in an area of human environmental studies.

HHE265 Safety and Injury Prevention

Hours 3

Among people 1-44 years of age, unintentional injury is the leading cause of death in the United States according to the centers for disease control and prevention (CDC). Even after age 44, unintentional injury remains among the top ten causes of mortality among Americans. Additionally, millions of Americans are injured each year and not die. For individuals that survive an injury, pain and disability can linger for years, if not for the rest of their lives. This course explores the complex nature of unintentional injuries while examining the impact of various prevention strategies.

Prerequisite(s): NONE
Prerequisite(s) with concurrency: NONE

HHE270 Personal Health

Hours 3

A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE273 Community And Public Health

Hours 3

Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE370 Prin/Foundatn Health Promotion

Hours 3

The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.

Prerequisite(s): HHE 273

HHE378 Drug Awareness Education

W

Hours 3

Introduction to topics associated with drug-taking behavior, emphasizing drug education. Physiological, psychological, and sociological aspects of drug-taking behavior are examined. Writing proficiency within this discipline is required for a passing grade in this course.

Writing

HHE440 Understanding Stress Mgt

Hours 3

An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE445 Environmental Health

Hours 3

The course is designed to promote the acquisition of environmental health knowledge and skills for application in community/public health education settings. Course content will address environmental factors that affect human and ecological health and environmental health education and promotion strategies.

HHE446 Health Disparities

Hours 3

This course is designed to explore health disparities in the United States and throughout the world. Course content will address societal factors that have an impact on health disparities. The course focus will also address cultural competency and appropriate health education and promotion strategies.

HHE450 Introduction to Epidemiology for Health Education and Promotion

Hours 3

An introductory course in epidemiology designed to promote an understanding of the analysis and application of epidemiological data for students in health professions with a primary focus on health education and promotion.

Prerequisite(s): HHE 270 HHE 273

HHE467 Design Eval Health Promo

Hours 3

Designed to help health educators develop competencies in program design, implementation, and evaluation.

Prerequisite(s): HHE 370

HHE468 Pract Appl Health Comm & Promo

Hours 3

A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.

Prerequisite(s): HHE 370
Prerequisite(s) with concurrency: HHE 467

HHE480 Culminating Experience in Health Education and Promotion

Hours 3

The purpose of this course is to provide students with an opportunity to apply health education and promotion competencies and concepts developed throughout their undergraduate course experiences. The course will include observations, applications, and reflections of responsibilities and competencies of health educators in professional practice.

Prerequisite(s) with concurrency: HHE 467 and HHE 468

HHE488 Internship Community Hlth

Hours 1-12

Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.
HHE496 Independent Study
Hours 1-6
Designed to provide the opportunity for independent work in any area of health education/health promotion.

NHM101 Intro Human Nutrition
Hours 3
Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

NHM105 Personal Nutrition
Hours 3
Discussion and application of nutrition as it relates to personal health.

NHM115 Introduction to Nutrition for Athletes
Hours 1
Applied sports nutrition theory and practice designed to provide physically active students with the basic knowledge of food, drink, and supplements and their effect on optimizing physical performance and health. Topics to include: balancing calorie intake with physical activity, fueling for performance and health, managing a healthy weight for sport, examining sports supplements, appropriate pre/during/post competition fueling/refueling habits, basic practical student cooking and shopping skills, and mindful eating.
Prerequisite(s): None
Prerequisite(s) with concurrency: None

NHM195 Intro Dietetics Nutrition
Hours 1
An overview of the major of food and nutrition and professions in nutrition and dietetics. Learn medical language by exploring the structure and meaning of terms frequently utilized in health care settings. Course includes guest speakers and lectures. Instructor permission required for non-majors.

NHM201 Nutrition In Life Cycle
Hours 3
Application of principles of basic nutrition to each stage of the life cycle. Emphasis is on the relationship of nutrition to growth, development, and health.
Prerequisite(s): NHM 101

NHM210 Dynamics Weight Control
Hours 3
Analysis of interaction of nutrition and exercise in weight control. Techniques for measuring energy needs, estimating body composition, applying nutrition principles to weight control, and evaluating popular diet and exercise programs.

NHM250 Principles of Food Preparation
Hours 3
Principles of Food Preparation as they relate to food quality and acceptability. Restricted to RHM majors and NHM minors.

NHM253 Food Science
Hours 3
Introduction to the functionality of food ingredients and how the chemistry of food dictates the methods of preservation and preparation.
Prerequisite(s): NHM 101 and CH 104 or CH 101.

NHM295 Intro Research Food Nutr
Hours 1
Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the Academy of Nutrition and Dietetics Web site. Student membership in the Academy of Nutrition and Dietetics is a requirement of this course.
Prerequisite(s): NHM 101
Prerequisite(s) with concurrency: NHM 201

NHM305 Vegetarian Nutrition
Hours 3
This course will provide students with an introduction to vegetarian nutrition, including background information on general nutrition. This course will also cover a vegetarian diet’s role in disease prevention, courses of plant-based nutrients, vegetarian diets throughout the life cycle, food policy and how to implement vegetarian diets into different areas of dietetic practice.

NHM315 Nutrition For Performance
Hours 3
This course is designed to address nutrition issues related to exercise and athletic performance.
Prerequisite(s): NHM 101

NHM320 Food in Film
HU
Hours 3
This course is genre study of the relationships between food, film, and culture. It introduces the portrayal of food and nutrition topics in film media, exploring cultural diversity and food relationships in media, the dynamic interaction of shifting food values with evolving media, and explores ethical and socio-political issues of portraying food in film.
Humanities

NHM340 Community Nutrition
W
Hours 3
Nutrition assessment of individuals and groups; provision of nutrition services in the community. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NHM 101 and NHM 201.
Prerequisite(s) with concurrency: NHM 395 or NHM 295.
Writing

NHM361 Nutritional Biochemistry
Hours 3
Intermediary metabolism of carbohydrates, fat, and protein with emphasis on homeostatic regulation in health and disease.
Prerequisite(s): NHM 101, and CH 105 or CH 231

NHM362 Nutrition At Cell Level
Hours 3
Physiological and chemical basis of nutrient needs.
Prerequisite(s): NHM 361
NHM363 Applied Nutrition
Hours 3
Principles of nutrition assessment, including interviewing and nutrition care plans. Application of principles to selected stages of the life cycle.
Prerequisite(s): NHM 201 and BSC 215 and BSC 216

NHM365 Med Nutr Therapy I
Hours 3
Study of pathophysiology and medical nutrition therapy for specific disease conditions.
Prerequisite(s): BSC 215 and BSC 216 and NHM 361 and NHM 363

NHM366 Supv Pract Med Nutr Therapy I
Hours 3
Supervised clinical dietetics experience applying NHM 365 coursework. This course is only for students admitted to the Coordinated Program in Dietetics.
Prerequisite(s) with concurrency: NHM 365

NHM372 Intro Food Service Mgt
Hours 3
Course includes theories, functions, and principles of management and tools for decision making.

NHM373 Purchsg Design Risk Mgt Food S
Hours 3
Principles, methods, and techniques used in purchasing food and equipment. Analysis of layout and design and of techniques used in evaluating work flow. Principles and techniques used in managing sanitation, safety, and security functions in food service.
Prerequisite(s): NHM 101 and NHM 372 and preq or coreq NHM 253 or NHM 250.
Prerequisite(s) with concurrency: NHM 253 or NHM 250

NHM374 Quant Food Prod & Servc
Hours 3
Theory and techniques of quantity food production and service. Application of theory through hands-on experience.
Prerequisite(s): NHM 250 for RHM majors NHM 253 for NHM majors

NHM390 Pract Food Service Mgt I
Hours 3
This directed individual study is designed to bridge the gap between the student's quantity foods laboratory course and the senior food service management supervised practice. Students will be placed in commercial health-care food service operations. This course is only for students admitted to the Coordinated Program in Dietetics.
Prerequisite(s): NHM 372, NHM 373 and NHM 374

NHM395 Intro Research Food Nutr
Hours 1
Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the American Dietetics Association Web site. Student membership in the Academy of Nutrition and Dietetics is a requirement of this course.
Prerequisite(s): NHM 101 and NHM 201

NHM401 Nutrition Health Profesn
Hours 3
Covers the practical application of principles of normal nutrition (including the nutritive value of foods) and introduces nutrition for persons with health problems. Primarily for students pursuing careers in health care.

NHM441 Nutrition Education
Hours 2
Focuses on developing competency in learning-system design, with special emphasis on teaching nutrition in various settings.
Prerequisite(s): NHM 101, NHM 201, and NHM 442

NHM442 Nutrition Care Process
Hours 1
Focuses on developing competency in nutrition counseling.
Prerequisite(s): NHM 101 and NHM 201
Prerequisite(s) with concurrency: NHM 363

NHM454 Experimental & Functional Food Science
Hours 3
Chemical and physical properties affecting food product development. Introduction to functional foods with additional value beyond basic nutrition. Strong analytical and writing skills are necessary for synthesizing peer-reviewed literature on experimental and functional foods in order to critically address nutrition questions. Scientific writing proficiency within this discipline is required for a passing grade in this course. One lecture per week with labs embedded within lectures.
Prerequisite(s): NHM 101, NHM 253, NHM 340, NHM 365, NHM 395 or NHM 295, and CH 105

NHM457 Childhood Obesity
Hours 3
Focuses on the physiological, genetic, environmental, and behavioral factors that predispose children and adolescents to obesity; explores the clinical and public health strategies for treatment and prevention.

NHM464 Superv Pract Commun Nutr
Hours 1
Experiences that include nutrition assessment, counseling, and delivery of nutrition services in the community. This course is only for students admitted to the Coordinated Program in Dietetics.

NHM465 Medical Nutrition Therapy II
Hours 3
Continuation of NHM 365. Basic principles of enteral and parenteral nutrition support, as well as advanced medical nutrition therapy for critical care.
Prerequisite(s): NHM 365

NHM466 Sup Pract Med Nutr Therapy II
Hours 3
Supervised clinical dietetics experience applying NHM 465 coursework. This course is only for students admitted to the Coordinated Program in Dietetics.
NHM467 Supervised Practice in Long-term Care
Hours 3
Supervised clinical dietetics experience in the long-term care setting. This course is only for students admitted to the Coordinated Program in Dietetics.
Prerequisite(s): NHM 365, NHM 366, NHM 465, and NHM 466.

NHM468 Practicum Nutrition Food Servi
Hours 1-5
Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM475 Mgt Food Service Systems
Hours 3
Through lectures and class discussions, the theory, functions, and principles of management are applied. Emphasis is on personnel and financial management, problem solving, decision making, and systems analysis.
Prerequisite(s): NHM 372 and NHM 373 and NHM 374

NHM476 Pract Food Serv Mgt II
Hours 2
Supervised practice in an institutional food service setting applying NHM 475 coursework. This course is only for students admitted to the Coordinated Program in Dietetics.

NHM485 Sup Prac in Dic Mgmt
Hours 3
Conduct a research project using appropriate research methods, ethical procedures and statistical analysis to culminate in the execution of a program for a target population. Develop and implement a curriculum, adhere to budget constraints, and implement a marketing plan utilizing web based messages and social media. This course is only for students admitted to the Coordinated Program in Dietetics.
Prerequisite(s): NHM 366, NHM 390, NHM 464, and NHM 466

NHM490 Directed Individual Study
Hours 1-6
Individual study in nutrition or food service management. Students must receive Instructor Approval for override into class.

NHM491 Directed Professional Study
W
Hours 3
Individual professional study in management, clinical, or community dietetics. Requirement of 160 clock hours spent in assigned site. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): NHM 365
Writing

NHM492 Prepare Dietetic Internship
Hours 1
To provide students in the DPD program who are seeking a Verification Statement with the knowledge to be successful in applying for a dietetic internship upon graduation.

NHM499 Undergraduate Research
Hours 1-6
Under faculty supervision, the student designs an investigation; collects and analyzes data; and prepares a written report and seminar on the research project.

RHM105 Nutrition for Hospitality Man.
Hours 3
Lecture and discussion introducing students to nutrition principles to evaluate and modify menus and recipes, as well as respond knowledgeably to customers questions and needs.
Prerequisite(s): RHM 175

RHM175 Introduction to Hospitality Management
Hours 3
Introduction to the opportunities, theory, functions, and principles of management in the food service, meeting and events, and lodging industry. Examination of basic operational systems and problems related to the industry.

RHM185 Intro Meetings Events Ind
Hours 3
Introduction to the structure, stakeholders and principles of management in the meetings and events industry. Examination of basic planning and production elements for meetings and events.

RHM235 Introduction to Sport Hospitality Management
Hours 3
Introduction to the theoretical and applied foundations of sport management and explore the array of career opportunities in the sport hospitality industry.
Prerequisite(s): RHM 175

RHM241 Mgt Of Food/Beverage Operation
Hours 3
Course focuses on how to profitably manage a food service operation in order to satisfy guests. Students learn how to give guests the highest priority as the details of food and beverage operations are planned, implemented, and evaluated.

RHM251 Hospitality Employee Suprv/Mgt
Hours 3
Focuses on information managers need in order to recruit, select, and train employees; increase productivity; control labor costs; effectively communicate; manage conflict and change; and use time management techniques.

RHM274 Basic Accounting in the Hospitality Industry
Hours 3
This course is an introduction to basic accounting in the hospitality industry which includes accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions.
Prerequisite(s): RHM 175, MATH 110 or 112 AND Economics 110
RHM285 Food Safety And Risk Management  
Hours 3  
Principles and techniques used in managing sanitation, safety, and security functions in food service and lodging operations. Outlines sanitation and risk management programs that help hospitality operations provide quality products and services, comply with regulations, and improve the bottom line.

RHM286 Prof Develop Hospitality Manage  
Hours 1-3  
Provides students with new and diverse experiences to increase their understanding of the restaurant, hotel and meetings management program. Class discussions, assigned readings, lectures, tours, and presentations by RHM faculty.

RHM290 Food and Beverage Trends  
Hours 3  
ServSafe Alcohol Certification course and tests are administered. Students are exposed to food and beverage trends at the Annual National Restaurant Association Show.

Prerequisite(s): RHM 175

RHM300 Event Plan Wedding Coordinator  
Hours 3  
This course reviews the interdependent functions of event planning for weddings. Students will learn about the decisions, problems and concerns of planning effective wedding events. They will design, plan and execute a wedding from start to finish.

RHM303 Mgn Qnlt In Hosp Industry  
W  
Hours 3  
Designed to acquaint students with quality and leadership issues facing today's hospitality industry. Students learn the principles of the concepts of continuous improvement, quality service, power and empowerment, communication skills, goal setting, teams, diversity, and managing organizational change. Writing proficiency is required for a passing grade for this course.

Prerequisite(s): RHM 175

Writing

RHM313 Contemporary Club Management  
Hours 3  
Introduces students to the unique world of private club management. Focus on issues club managers face on a daily basis.

RHM321 Tourism & Hospitality Industry  
Hours 3  
Comprehensive exploration of major concepts about tourism and analysis of the broad range of factors that influence the inter-linked industry composed of many sectors.

Prerequisite(s): RHM 175

RHM322 Cruise Tourism  
Hours 3  
Exploration & evaluation of the North American Cruise Industry to include vacation cruising, economics, life aboard for passengers and crew, analysis of marketing campaigns and internet resources.

Prerequisite(s): RHM 175

RHM325 Lodging Operations & Management  
Hours 3  
Systematic approach to front-office, housekeeping and maintenance procedures. Emphasis is on the fundamentals in each of these three critical areas and the understanding of the mission of each department, people in the department, how the department interacts and management of employees.

Prerequisite(s): RHM 175

RHM332 Front Office Management  
Hours 3  
Introduces concepts of front-office management that affect other operating departments. Discusses techniques in managing the front office to ensure operational goals are attained.

RHM335 Sport Tourism  
Hours 3  
An in-depth look at the economic and social impact of Sport Tourism on destinations and exploration of sports travel's growth and future prospects.

Prerequisite(s): RHM 175

RHM336 Collegiate Athletics  
Hours 3  
This course highlights the foundation, skills, and issues associated with collegiate sports. The history, ethics, and governance in collegiate sports, recreational programs, and wellness education is also examined.

Prerequisite(s): RHM 175

RHM337 Sport Facility Management  
Hours 3  
This course will identify the management functions necessary in planning and executing sporting events in sport facilities. Financing, risk management, crowd control, food and beverage requirements, and emergency management will be reviewed.

Prerequisite(s): RHM 175 and RHM 251

RHM338 Sport Marketing and Sponsorships  
Hours 3  
This course investigates the philosophies and procedures of sport marketing as a tool for both promotion and sponsorship sales. Course discussions and projects will emphasize the areas of strategic marketing, the sport consumer, market research, marketing segmentation, corporate partnerships and activations, legal considerations, and the various paid media outlets.

Prerequisite(s): RHM 235

RHM345 Operations Mgmt Gaming Ind  
Hours 3  
This course is designed to increase the understanding of the gaming industry through lectures and possible visits to casino operations, hotels, and restaurants located with casinos. The course discussions include history of gaming, gaming controls, gaming operations, currency reporting, casino statistics, casino tactics, marketing casinos, Alabama laws on gaming, and addictions and responsible gaming. There will be assigned readings and possible presentations by leading casino executives.

Prerequisite(s): RHM 175 or permission from the instructor.
PHRM 355 Hospitality Industry Training
Hours 3
Student learns how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help the hospitality organization attain its operational goals and objectives.

PHRM 356 Human Resources Management
Hours 3
Explains how to meet the requirements of various labor laws, to include the Americans with Disabilities Act (ADA), as well as other employment and workplace laws. Explores strategies for attracting a wide range of applicants, minimizing turnover, and reducing productivity losses.
Prerequisite(s): PHRM 175

PHRM 357 Event Marketing
Hours 3
Students learn how to market to the Event Target Audience; anticipate client needs; and understand the event business and its unique value position and differentiation. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PHRM 175
Writing

PHRM 370 Event Marketing
Hours 3
Students learn how to market to the Event Target Audience; anticipate client needs; and understand the event business and its unique value position and differentiation. Writing proficiency within this discipline is required for a passing grade in this course.
Prerequisite(s): PHRM 175
Writing

PHRM 375 Managing Catering Operations
Hours 3
Theory and techniques of professional catering and event planning with hands-on activities involved with the planning, organizing, and implementation of special catered events. Student’s hands-on experience will include Service, Production and Management roles.
Prerequisite(s): PHRM 175, NHM 250 or NHM 253

PHRM 377 Restaurant Management & Service
Hours 3
Principles and methods of producing and serving quality food in restaurants.
Prerequisite(s): PHRM 175

PHRM 380 Convention Trade Show Management
Hours 3
A comprehensive analysis of trade shows. Emphasis is on organizing, arranging, and operating trade shows and conventions. Visits to trade shows are required.
Prerequisite(s): PHRM 175 and PHRM 185

PHRM 385 Event Lead. Prog, Prob Solving
Hours 4
Students gain knowledge, skills and experience in planning, executing, evaluating and problem solving with a variety of events on the UA campus. Students work with a minimum 10 hours per week with the University Union.
Prerequisite(s): PHRM 175 and PHRM 185

PHRM 387 Hotel/Motel Security Management
Hours 3
Exploration of security issues, concerns and practices affecting hospitality properties. Covers the physical security of the property asset protection, guest protection, security equipment, emergency management and procedures, and OSHA requirements.
Prerequisite(s): PHRM 175

PHRM 420 Hospitality Marketing
W
Hours 3
Course presents basic knowledge and practices for developing strategic marketing plans for hotel/motel organizations. Includes property/product market and competition analysis; promotion and sales planning and internal and external sales and promotion techniques. Writing proficiency is required for a passing grade in this course. Juniors or Seniors ONLY.
Prerequisite(s): PHRM 175
Writing

PHRM 421 Hospitality Law
Hours 3
Students gain an understanding of potential legal problems and how important legal considerations can affect the hospitality industry. Legal cases related to the hospitality industry are explored.

PHRM 425 Risk Management for Meetings & Events
Hours 3
A study of risk, crisis, and liability issues that may arise in the planning and management of meetings and events. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): PHRM 175 or PHRM 185

PHRM 435 Sports Governance
Hours 3
Leadership and governing practices for a variety of playing levels; from little league, collegiate sports, professional sports, and international federations will be examined.
Prerequisite(s): PHRM 175 and PHRM 336

PHRM 436 Current Trends in Sports Hospitality
Hours 3
This course will introduce students to various current and future trends within the sports hospitality industry. Additionally, students will examine the role these trends play in the management, operation, and future of sports organizations.
Prerequisite(s): PHRM 235

PHRM 446 Hospitality Purchasing
Hours 3
Students learn how to purchase major commodities and nonfood supplies, ensuring price and product quality. Course explains how to deal effectively with suppliers and includes the managerial aspects of purchasing.
RHM448 Bar And Beverage Management
Hours 3
Discussion on strategies to profitably manage the bar and beverage department of the hospitality operation. Covers control systems, hiring and training, responsible alcohol service, and essential information on a wide range of beverage products. MUST BE AGE 21 OR OLDER.
Prerequisite(s): RHM 175 and NHM 250 or NHM 253.

RHM450 Issues Hotel & Lodg. Mgmt.
Hours 3
No description available
Prerequisite(s): RHM 175

RHM465 Food And Beverage Controls
Hours 3
Explores the complexities of controlling food, beverages, labor and sales income/cost control, as well as control systems, the basics of computers, and computer applications in planning and control functions.
Prerequisite(s): RHM 175

RHM468 Practicum In Hospitality Mgt
Hours 1
Student work experience in a hospitality operation. Students are expected to work 500 hours in a hospitality operation and position.
Prerequisite(s): Permission of advisor.

RHM469 Internship Hospitality Management
Hours 1
A semester of work experience in an approved hospitality organization for a minimum of 600 hours. Students work full-time during the semester to gain insight into hospitality management responsibilities.
Prerequisite(s): RHM 175

RHM470 Hospitality Industry Computer Systems
Hours 3
Explores hospitality computer technology and the management of information systems. Discussion of applications for all functional areas, including reservations, rooms, food and beverage, sales and event management and accounting.
Prerequisite(s): RHM 175

RHM474 Mangr Acct Hospitality Industr
Hours 3
Students learn how to make effective managerial, business, and operational decisions based on a thorough understanding of financial statements; identify costs; develop realistic budgets; forecast; and plan cash flow.
Prerequisite(s): RHM 175 and AC 210 or RHM 310 or RHM 274

RHM478 Mgt Service Food Bev Operation
Hours 3
Explores requirements in planning for and managing different types of food and beverage operations.

RHM479 Convention Management & Servic
Hours 3
An exploration of techniques used to increase a hospitality property’s convention and meeting business through marketing and service. Students learn how to address meeting planners’ needs and concerns confidentially, creatively and effectively.
Prerequisite(s): RHM 175 or RHM 185

RHM480 Adv Meeting & Convention Mgt
Hours 3
Reviews the interdependent functions of meetings and convention management. The student develops and executes a professional meeting.
Prerequisite(s): RHM 175 and RHM 185

RHM481 Special Events, Fairs, and Festivals
Hours 3
This course will cover the history of fairs and festivals and the economic impact they offer the communities that host such events. Students will acquire hands-on experience with festival planning, set-up, and operations.

RHM485 Foundations Seminar
Hours 3
Advanced senior seminar designed for students in the restaurant and hospitality management program.

RHM488 Individual Seminar Projects
Hours 3-12
Individual projects designed by students to implement concepts and strategies learned in executive seminars. Project plans must be approved by RHM faculty prior to implementation.

RHM490 Directed Individual Study
Hours 1-6
To register for RHM 490, students must receive Instructor Approval for override into class.

RHM495 Capstone Senior Project
Hours 12
Project is designed by the student to include research, analysis, and synthesis of a particular topic related to hospitality industry operations. Project must be approved by RHM faculty prior to implementation.
Prerequisite(s): RHM 485

RHM496 RHM Senior Capstone Seminar
Hours 1
Discussion of current issues in the hotel, restaurant, and convention industries. Must be Senior level.
Prerequisite(s): RHM 175
College of Nursing Courses

NUR102 Freshman Compass: Nursing

Hours 1

The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory).

Freshman Compass

NUR103 Freshman Compass: Nursing (Honors)

Hours 1

The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory) This is the honors section and is designated for honors students only.

University Honors

NUR104 Liv Learning Prof Nursing Prac

Hours 2

This elective course focuses on awareness of education of nursing majors at The University of Alabama Capstone College of Nursing and the profession of nursing. Students have the opportunity to learn about The University of Alabama campus, the Capstone College of Nursing and the profession of nursing. Activities will be included to promote students’ development of relationships with other nursing students and other students in Harris Hall. This course, which is known as a compass course, will point you in the right direction, much as a compass would. (Theory).

Freshman Compass

NUR225 Immersion in Spanish Language and Healthcare

Hours 3

This course will provide students with a culturally rich immersion opportunity, integrating language studies with health care issues and concepts through another country’s perspective. Family home stays are an integral part of this course. The lessons will occur on Monday through Friday, for five weeks. Visits to a health center, a hospital, a rehabilitation center, and other visits related to the health profession are included. Additionally, two in class conferences will be held on the medical system in Navarre/Spain. The course takes place in Pamplona, Spain, a medium size city, and capital of the Region of Navarra. Pamplona is located in Northern Spain close to the border of France and is famous for its San Fermin festivals. Additional activities include several excursions around the region including: a medieval castle in Olite, a tapas tour, 3 full-day excursions on Saturdays, a visit to the Guggenheim Museum, and a trip to the South of France and San Sebastian.

Prerequisite(s): No prerequisites

NUR301 Palliative Care in Nursing

Hours 2

This is an elective undergraduate nursing course. The focus of this course is to build a knowledge base in palliative care nursing and symptom management. By exploring common topics in palliative care, such as, symptom management, pain management, and communication, the student will develop skills to better manage patients as they near end-of-life. The course will use online technology that will include integration of videos, prerecorded lectures, and discussion boards. The student will work independently within course modules.

Prerequisite(s): NUR 305 and NUR 307 and NUR 310

NUR302 Introduction to Women’s Health Disparities

Hours 3

The course serves as an introduction to women’s health policy, in which trends and issues will be identified and discussed. The course is designed to enhance the learning and understanding of women’s health issues in the United States. In this course, students will analyze the social, economic, political, behavioral, environmental, and spiritual components that influence women’s health.

Prerequisite(s): Admission to the Upper Division of The Capstone College of Nursing

NUR305 Human Pathophysiology

Hours 3

The purpose of this course is to introduce students to fundamental pathophysiology of the human body. This course examines physiological change that results in disruptive adaptive responses throughout the lifespan. These disruptive responses are approached in a systematic manner. A combination of identified cellular concepts and a body systems approach is utilized to structure course content. Included are basic cellular processes in human pathology, pathology associated with the major body systems, and physiology associated with the aging process. (Theory).

Prerequisite(s): Admission to Nursing Upper Division
NUR307 Medication Calculation

Hours 1

This course is designed to facilitate the students’ development of those skills necessary to properly calculate medication dosages and to prepare the student for the Medication Calculation Mastery Exam. Emphasis is placed on those cognitive skills necessary to perform the calculations correctly. (Theory).

Prerequisite(s): Admission to Nursing Upper Division

NUR308 Conceptual Foundations Prof Nu

W

Hours 3

Successful completion of this course is a prerequisite for semester II upper division courses. This course focuses on concepts and issues relevant to professional nursing practice. Content related to the values of professional nursing and issues affecting practice will be examined. Students are introduced to the CCN Vision, Mission and core Values. This course meets the University’s core curriculum requirements for writing. A passing grade in writing proficiency is required for a passing grade in this course.

Prerequisite(s): Admission to Nursing Upper Division

Writing

NUR309 Nursing Informatics

C

Hours 3

This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. Particular emphasis is placed on HIPAA, social media and information security. Telehealth and the use of encryption software to protect patient information is also a focal point. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. This course requires the utilization of the following software: Microsoft Word, PowerPoint, and Excel. In addition, students will also have the opportunity to explore and utilize free online software. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 102, Foreign Language option or an additional lower division CS designated course such as CS 202 or CS 285 and admission to nursing upper division.

Computer Science

NUR310 Health Assessment for Professional Nursing Practice

Hours 3

This course prepares the novice nursing student in the development of health assessment skills including the health history, physical, psychosocial, and spiritual aspects necessary for critical thinking in professional nursing practice. Adult physical assessment techniques will be developed through simulation and practice within a practice lab setting.

Prerequisite(s): Promotion to Upper Division of Nursing

NUR312 Clinical Internship

Hours 1-3

An elective clinical course that focuses on the further refinement of clinical and leadership skills. Students taking more than one semester will contract with the clinical faculty member for additional assignments. (Laboratory).

NUR313 Special Topics

Hours 1-4

This course focuses on selected BSN topics under the sponsorship of a nursing faculty member with relevant expertise.

NUR317 Indep Study In Nursing

Hours 1-10

This course focuses on independent study of a selected topic under the sponsorship of a nursing faculty member with relevant expertise. Prior approval of proposal by faculty sponsor and associate dean required. Elective.

NUR319 Nrsng Informatics for RNs

C

Hours 3

This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. This course requires the utilization of the current software including but not limited to: Free healthcare mobile device applications, Microsoft Word, PowerPoint, and Excel. In addition, students will also explore and utilize free online presentation software. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 102

Computer Science

NUR320 Issues in the Care of Older Adults

Hours 3

This is a elective undergraduate nursing course. The focus of this course is to delve into multiple issues of concern for well and sick older adults and their families. By exploring the greatly varied expectations for well and complicated aging, the student will develop an appreciation for the vast array of issues affecting older adults and the multiple transitions they experience.

Prerequisite(s): NUR 305, NUR 307, NUR 308, NUR 309

NUR324 Fundamentals for Professional Nursing Practice

Hours 7

Integration of knowledge, theories and skills from the humanities, arts and sciences serves as the foundation for this introductory clinical course. Students will further build upon adult assessment skills necessary for critical thinking in professional nursing practice. Clinical skills related to communication and basic care techniques will be developed through simulation and practice with clients on the clinical unit. The nursing process will be presented as a framework for critical thinking, decision-making and nursing practice. Levels of prevention will be introduced as a model for health care.

Prerequisite(s): NUR 305 and NUR 308 and NUR 310
NUR326 Pharmacology Nursing Practice
Hours 3

The purpose of this required course is to introduce the student to the role of pharmaceutical agents in assisting patients with health problems throughout the lifespan. A brief history and a discussion of the legal controls that regulate the field of pharmacology are included. Drug prototypes are utilized to examine the major classifications of drugs. Use of a handheld electronic devise and accompanying software facilitates discussion of major drug classification with regard to pharmacokinetics, therapeutic uses, adverse reactions, precautions, and contraindications. Special considerations of diverse cultural backgrounds, ethnic factors, access to financial resources, lifespan issues, and genetic variations impacting drug therapy are included. Health teaching and nursing implications for drug classifications are discussed.
Prerequisite(s): NUR 305 and NUR 308 and NUR 310

NUR328 Inq for Evi-Based Prac in Nurs
W

Hours 3

This required course introduces nursing students to the basics of the research process and research methodology in a manner to allow the reading and understanding of research articles. Emphasis is placed on nursing research in a context of identification of practice issues, levels of evidence, identification and synthesis of evidence, translation into practice, participation in quality improvement, and evaluation of outcomes. This required course meets the university's core curriculum requirements for writing. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NUR 324 NUR 326
Writing

NUR329 Inq. Evidence Based Pract RNS
W

Hours 3

This required course introduces nursing students to the basics of the research process and research methodology in a manner to allow the reading and understanding of research articles. Emphasis is placed on nursing research in a context of identification of practice issues, levels of evidence, identification and synthesis of evidence, translation into practice, participation in quality improvement, and evaluation of outcomes. This required course meets the university’s core curriculum requirements for writing. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NUR 319 and NUR 348, or with departmental approval
Writing

NUR330 Honors Inquiry for Evidence-Based Practice in Nursing
UH, W

Hours 3

This required course introduces nursing students to the basics of the research process and research methodology in a manner to allow the reading and understanding of research articles. Emphasis is placed on nursing research in a context of identification of practice issues, levels of evidence, identification and synthesis of evidence, translation into practice, participation in quality improvement, and evaluation of outcomes. This required course meets the university’s core curriculum requirements for writing. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): NUR 324 and NUR 326
University Honors, Writing

NUR333 Inquiry into the Cuban Healthcare System
Hours 3

The purpose of this foreign travel experience course is to provide students with firsthand knowledge of the healthcare system in Cuba. Students will visit facilities and community organizations that support the health of individuals and communities. In addition, students will have the opportunity to visit key points of historic interest to further their understanding and develop an increased cultural awareness of Cuban life.

NUR345 Perioperative Nursing

This elective course is designed to give students an opportunity to participate in multiple nursing roles in the perioperative environment. These activities are planned to enrich the student's knowledge and provide application of concepts relevant to operative and anesthesia standards of care.
Prerequisite(s): NUR 324
Writing

NUR348 Role Tran in Baccalaureate Nur
W

Hours 4

This online theory course designed for registered nurse students is structured to provide the foundation for continuing development of the students' body of conceptual and practical knowledge essential for enacting the professional nursing roles. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency within this discipline is required for a passing grade in this course.
(Theory).
Prerequisite(s) with concurrency: NUR 319
Writing

NUR350 Crit Think & Clin Judgment

Hours 2

This course provides opportunities for students to gain skills and knowledge on advanced clinical problem solving and decision making.
Prerequisite(s): NUR 324 and NUR 326 or permission of Assistant Dean for Undergraduate Programs
NUR360 Honors Research Seminar/Practicum I

Hours 2

This is the second course in a three-semester series that emphasizes the role of research in nursing and health care. In this course students will refine and implement the research protocol developed in NUR 328 or UA 156. Working closely with their faculty mentor, students will 1) obtain IRB approval (if required and not completed in the first semester); 2) collect and analyze data, and 3) compile an abstract of their project. Students will receive hands on experience with management of data and data analysis techniques. Avenues of research dissemination will be discussed. Students will discuss the theoretical underpinnings of practice and research and methods to critically appraise clinical practice guidelines.

Prerequisite(s): NUR 328 (or NUR 330), UA 155 (or UA 156)

University Honors

NUR372 Prof Nursing Practice-Adults

Hours 8

This required course focuses on actions designed to detect and intervene in actual or potential health problems in adults and to determine actions that will ameliorate or reduce the consequences of adult disease through support or rehabilitation. Clinical experiences are designed to develop skills for early detection, diagnosis, and treatment of acute and chronic health problems in adults and prevention of further disability. (Theory and laboratory).

Prerequisite(s): NUR 324 and NUR 326

NUR373 Standardized Exam Success – Adult Health

Hours 1

This online self-paced course is required for Upper Division nursing students who are unsuccessful on two attempts of the NUR 372: Professional Nursing Practice – Adults HESI standardized specialty exam. This course focuses on correcting knowledge deficits related to the adult patient population. Remediation strategies are designed to assist the student to identify knowledge deficits, synthesize pertinent patient care information, and develop necessary critical thinking and clinical judgment skills to safely and effectively care for an adult patient population. This course will also facilitate the student’s preparation for success on future nursing standardized exams.

Prerequisite(s): NUR 372

NUR374 Prof Nurs Pract Mental Health

Hours 4

This required course focuses on theory, concepts, and management functions essential to professional nursing. Essential skills are therapeutic communication in mental health, identification of practice issues, interprofessional collaboration, evaluation of outcomes, and the application of evidence-based practice models. Actions will be taken to participate in quality improvement by ameliorating or reducing the consequences of mental health problems. These essential skills are designed to provide quality care while improving the mental health of persons and preventing further disability. (Theory and Laboratory).

Prerequisite(s): NUR 324 and NUR 326

NUR375 Standardized Exam Success – Mental Health

Hours 1

This online self-paced course is required for Upper Division nursing students who are unsuccessful on two attempts of the NUR 374: Professional Nursing Practice – Mental Health HESI standardized specialty exam. This course focuses on correcting knowledge deficits related to the mental health patient population. Remediation strategies are designed to assist the student to identify knowledge deficits, synthesize pertinent patient care information, and develop necessary critical thinking and clinical judgment skills to safely and effectively care for a mental health patient population. This course will also facilitate the student’s preparation for success on future nursing standardized exams.

Prerequisite(s): NUR 374

NUR375 Standardized Exam Success – Mental Health

Hours 1

This online self-paced course is required for Upper Division nursing students who are unsuccessful on two attempts of the NUR 374: Professional Nursing Practice – Mental Health HESI standardized specialty exam. This course focuses on correcting knowledge deficits related to the mental health patient population. Remediation strategies are designed to assist the student to identify knowledge deficits, synthesize pertinent patient care information, and develop necessary critical thinking and clinical judgment skills to safely and effectively care for a mental health patient population. This course will also facilitate the student’s preparation for success on future nursing standardized exams.

Prerequisite(s): NUR 374

NUR375 Standardized Exam Success – Mental Health

Hours 1

This online self-paced course is required for Upper Division nursing students who are unsuccessful on two attempts of the NUR 374: Professional Nursing Practice – Mental Health HESI standardized specialty exam. This course focuses on correcting knowledge deficits related to the mental health patient population. Remediation strategies are designed to assist the student to identify knowledge deficits, synthesize pertinent patient care information, and develop necessary critical thinking and clinical judgment skills to safely and effectively care for a mental health patient population. This course will also facilitate the student’s preparation for success on future nursing standardized exams.

Prerequisite(s): NUR 374

NUR375 Standardized Exam Success – Mental Health

Hours 1

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Prerequisite(s): NUR 374

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Prerequisite(s): NUR 374

NUR375 Standardized Exam Success – Mental Health

Hours 1

This online self-paced course is required for Upper Division nursing students who are unsuccessful on two attempts of the NUR 374: Professional Nursing Practice – Mental Health HESI standardized specialty exam. This course focuses on correcting knowledge deficits related to the mental health patient population. Remediation strategies are designed to assist the student to identify knowledge deficits, synthesize pertinent patient care information, and develop necessary critical thinking and clinical judgment skills to safely and effectively care for a mental health patient population. This course will also facilitate the student’s preparation for success on future nursing standardized exams.
NUR420 Prof Nursing Practice-Children
Hours 4
This required course focuses on the role of the nurse in providing holistic, patient-centered care to the childbearing family. The student will be given simple to complex situations in classroom, clinical and technological-based experiences, emphasizing evidence-based practice and quality improvement as members of an interdisciplinary team. A major focus will be the implementation of nursing care to childbearing families who are experiencing a normal maturational process as well as related acute/chronic health problems. (Theory and laboratory).
Prerequisite(s): (NUR 328 or NUR 330) and NUR 372 and NUR 374

NUR449 Community Health For RNs
Hours 5
Community Health Nursing is a required course taught online that focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community oriented and population focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in non-institutional environments. (Theory and laboratory).
Prerequisite(s): NUR 319 and NUR 348, or with departmental approval

NUR455 Leadership & Management Roles
Hours 5
This online course focuses on leadership theory and management functions essential to professional nursing. The application of leadership and management principles through completion of a leadership project comprises the clinical experience for the course. Synthesis of concepts basic to organizational and systems leadership, including quality improvement, nurse sensitive indicators, and patient safety, are explored. (Theory and Laboratory).
Prerequisite(s): NUR 319; and NUR 348; and NUR 329; and NUR 449 or with departmental approval

NUR460 Honors Research Seminar/Practicum II
UH
Hours 2
This is the third course in a three-semester series that emphasizes the role of research in nursing and health care. In this third and last course, students will complete their research projects under supervision of their faculty mentor and course instructor. Final data collection and data analysis will be performed if not previously accomplished. Major foci for this course are interpretation and dissemination of study findings. Class discussions will address such issues as how to create a research poster, presenting a clear and concise podium research presentation, and writing for publication. Students will write a manuscript for consideration in peer-reviewed journal or other publications.
Prerequisite(s): NUR 360
University Honors

NUR465 Complex Client Sys RNs
Hours 5
This online synthesis course provides opportunities for the registered nurse student to examine complex acute and chronic health problems. Students will apply concepts from prerequisite and concurrent courses and use clinical reasoning and decision-making skills to evaluate interventions to ameliorate or reduce health problems. Activities will focus on nursing actions used to intervene in the care of complex clients. (Theory).
Prerequisite(s): NUR 319; and NUR 348; and NUR 329; and NUR 449 or departmental approval

NUR471 Prof Nurs Pract Complex Client
Hours 4
This synthesis course provides opportunities for the student to examine complex, acute and chronic health problems. Students will apply concepts from prerequisite and concurrent courses and use clinical reasoning thinking and decision-making skills to evaluate interventions to ameliorate or reduce health problems. Clinical activities will focus on nursing actions used to intervene in care of complex clients.
Prerequisite(s): NUR 418 and NUR 420 and NUR 422

NUR473 Leadership Prof Nursing Practi
Hours 7
This required course focuses on leadership theory and management functions essential to professional nursing. Essential skills are communication, interprofessional collaboration, negotiation, delegation, coordination, evaluation of interdisciplinary work, and the application of evidence-based practice models. Clinical experiences focus on enactment of the professional nurse role in a concentrated practicum. Leadership and management principles and clinical judgment skills are applied as students enhance direct care delivery skills, critical thinking and decision-making. (Theory and laboratory).
Prerequisite(s): NUR 418 and NUR 420 and NUR 422
NUR474 Honors Prof Nurs Practice

Hours 7

This required course focuses on leadership theory and management functions essential to professional nursing. Essential skills are communication, interprofessional collaboration, negotiation, delegation, coordination, evaluation of interdisciplinary work, and the application of evidence-based practice models. Clinical experiences focus on enactment of the professional nurse role in a concentrated practicum. Leadership and management principles and clinical judgment skills are applied as students enhance direct care delivery skills, critical thinking, and decision-making. The honors component of this course requires negotiation with faculty, and approval of the Honors College, to determine the criteria for any honors credit in addition to other course requirements. Examples might include a scholarly paper on a chosen topic, data collection and graphic reports on the leadership project topic, and/or a leadership/management problem analysis on the clinical unit. (Theory and laboratory).

Prerequisite(s): NUR 418 and NUR 420 and NUR 422

University Honors

NUR475 Preparation For Licensure

Hours 1

This synthesis course provides opportunities for students to assess individual knowledge acquisition and to implement strategies to ameliorate deficiencies and maximize learning with faculty assistance. Students will have the opportunity to use individual, group, and technology-based methods to facilitate critical thinking and problem solving using hypothetical client situations. Students also will complete the licensure application process. (Theory).

Prerequisite(s): NUR 418 and NUR 420 and NUR 422

NUR479 Indep Study Licensure Prep

Hours 1

This independent study course provides opportunities for students to assess individual knowledge acquisition and to implement strategies to ameliorate deficiencies and maximize learning with faculty assistance. Students will have the opportunity to use individual and technology-based methods to facilitate critical thinking and problem solving using hypothetical client situations. Students also will complete the licensure application process.

Prerequisite(s): NUR 471 and NUR 473

NUR480 Ind Study: Lic Prep II

Hours 1

This independent study course provides opportunities for students to assess individual knowledge acquisition and to implement strategies to ameliorate deficiencies and maximize learning with faculty assistance.

Prerequisite(s): NUR 479

College of Social Work Courses

SW100 Introduction to the Fields of Social Work Practice

Hours 3

An overview of the many and varied roles in which social workers function in today's society. Reviews the historical development of the profession, its various fields of practice, the profession's code of ethics, and covers current national and local issues. Fifteen hours of volunteer work outside of class are required. Required course for social work majors and social welfare minors; open to all University students, but freshmen and sophomores preferred. Offered in the fall and spring semesters.

Prerequisite(s): None. This is an introductory course open to all University students. It is a required course for social work majors and social welfare minors.

SW101 Orientation to Social Work

Hours 3

The purpose of this course, which is required for social work majors, is to orient social work majors to the School of Social Work (SSW), professional writing standards, and other basic professional skills. Students will learn about establishing an educational plan, professional etiquette, career preparation, self-care, steps in applying for admission to the professional program, campus resources, basic skills in professional writing, and basic knowledge and skills relevant to professional social work practice, including licensure, professional etiquette, and self-care.

SW105 Honors Introduction to the Fields of Social Work Practice

Hours 3

Social Work 105 is an introductory course that presents a comprehensive overview of the profession of social work and social workers' roles in contemporary society. This course is designed for students seeking advanced professional orientation and development in social work. This honors course is designed to provide a critical examination of the profession's values and Code of Ethics and the major fields of social work practice. Students examine the profession's response to populations-at-risk, including people of color, women, older adults, children and adolescents, gays and lesbians, and low income populations. Each student completes a 30 clock hour service learning assignment in a social service agency. The course provides a broad base of information for further social work education and helps students decide if social work is an appropriate career for them to pursue.

University Honors

SW110 Values in Society

Hours 3

The major purpose of this course is to examine the nature of our values within the context of the American society. To achieve this purpose, we will explore and examine the history and theories of our culture and the effects of our culture on individual development.
SW200 History of Social Welfare in the United States
HI
Hours 3
Study of the historical development of social welfare, the social work profession, and the philosophical bases for the provision of various social welfare services to persons throughout the life course. Major consideration is given to the development of social welfare programs and services within a political and economic context, with particular attention to influential social values in the United States.
Prerequisite(s): None.

History
SW205 Honors History of Social Welfare in the United States
HI, UH
Hours 3
SW 205 is open to all students in the honors college at the university. This course will meet the History of Social Welfare in the United States requirement for all social work majors. This course provides students with an opportunity to explore and critically evaluate the historical development of social welfare, the social work profession, and the philosophical basis for the provision of various social welfare services to persons throughout the life course. Students will be expected to examine the development of social welfare programs and services within a political and economic context, with particular attention to influential societal values in the United States. The students will be expected to evidence a critical understanding of the major issues affecting the provision of social welfare programs and services to vulnerable and oppressed populations.
History, University Honors

SW206 Growing Old In America
Hours 3
This course provides students with knowledge of the field of aging with a primary focus on social gerontology. An overview is provided of the characteristics of the elderly and the biological, physiological, psychological, and social aspects of aging. Emphasis is placed on selected issues confronting the general elderly population.
Prerequisite(s): At least sophomore standing

SW208 Juvenile Delinquency:Causes, Control, and Services
Hours 3
Examination of the nature and extent of delinquency. Theories of causation and the structure and function of courts are explored. Emphasis placed on prevention, control, and interventions with juvenile offenders and their families.

SW210 Family & Child Welfare
Hours 3
Examines the current situation in services for children and families. Gives an overview of services designed to strengthen families, as well as those that provide substitute care of children when the family is unable to meet this responsibility.

SW212 Death Dying Bereavement
SB
Hours 3
Analysis of a variety of issues and problems presented by death, dying, and grief in American culture, with some comparison to other cultures. Examines attitudes and responses to death and the perspectives of children and adults.
Social and Behavioral Sciences

SW300 Special Topics
Hours 3
This course provides a thorough examination of an important topic in social work. The area under examination varies from semester to semester.
Prerequisite(s): Sophomore-junior-, or senior-standing. Social Work major or minor or permission of the instructor. May be repeated for a total of 6 hours with permission of the BSW program chair.

SW310 Professional Writing Seminar
Hours 3
Clear and effective communication skills are necessary for social service delivery. This course is optional for students who receive a "B-" or better on the writing proficiency exam offered in SW 101. It is required for social work majors who do not receive a "B-" or better on the writing proficiency exam.
Prerequisite(s): SW 101

SW320 Volunteer Human Serv Sys
Hours 3
The nature and development of volunteerism in human services in the United States plus current trends in the use of volunteers is discussed. Each student is assigned to a human service agency in order to experience the role of being a volunteer.

SW345 Traumatic Stress in SW
Hours 3
This course addresses post traumatic stress and secondary traumatic stress. It includes theory, empirical research and social work interventions. The content is provided through a variety of modes to include textbook, articles, videos, movies and lectures.
Prerequisite(s): Good standing in the undergraduate program.

SW351 Oppression & Soc Injustice
W
Hours 3
This course examines issues related to the oppression of people on the basis of their gender, ethnicity, race, culture, sexual orientation, physical or mental ability, age, religion, and national origin. It is designed to introduce the student to a range of issues of oppression and social and economic injustice pertinent to the field of social work and to the profession of social work. This course has the University Core Curriculum "W" designation. Writing proficiency is required for a passing grade in this course.
Prerequisite(s): At least sophomore-standing or permission of the instructor.
Writing
SW355 Hon Oppression & Soc Injustice  
UH, W  
Hours 3  
SW 355 is open to all students in the Honors College at the University. This course will meet the Oppression and Social Injustice requirement for all social work majors. This course critically examines issues related to the oppression of people on the basis of their gender, ethnicity, race, culture, sexual orientation, physical or mental ability, age, religion, and national origin. It is designed to introduce the student to a range of issues of oppression and social and economic injustice pertinent to the field of social welfare and to the profession of social work. Students will also be introduced to various theoretical approaches to oppression and injustice. Specific emphasis is placed on critical and reflective thinking, and an exploration of the mechanisms of privilege and disadvantage embedded in racism, sexism, classism and other forms of systemic oppression. This course has the University Core Curriculum 'W' designation. Writing proficiency is required for a passing grade in this course.

Prerequisite(s): At least sophomore standing or permission of the instructor. This is course open to University Honors Program students. This course will fulfill the Oppression and Social Injustice requirement for social work majors and for social welfare minors.

University Honors, Writing

SW401 Social Welfare Policy & Services  
W  
Hours 3  
This course enables students to develop beginning skill in the analysis of social welfare policies and programs. The course builds on the basic knowledge of the history and philosophy of social welfare programs students have acquired in the prerequisite course, SW 200 or SW 205. Writing proficiency within this discipline is required for a passing grade in this course.

Prerequisite(s): SW 200 or SW 205 with a grade of "C-" or better. Admission to the professional program in social work, or declaration of a minor in social welfare, or permission of the instructor

Writing

SW405 Social Welfare Policy and Services Honors  
UH, W  
Hours 3  
This course is designed to enable the student to develop skill in the analysis of social welfare policies and programs. The course builds on the basic knowledge of the history and philosophy of social welfare programs students have acquired in the prerequisite course, SW 205. In this course, special attention is given to evidence regarding the effects of policies on persons subject to economic deprivation, discrimination, and oppression. Current policies and policy issues in Alabama and the southeast are emphasized, with a focus on social work values and human diversity. This course has the University Core Curriculum "W" designation. Writing proficiency is required for a passing grade in this course.

Prerequisite(s): Completion of SW 205 with a grade of "C" or better. Admission to the Honors College and the professional program in Social Work, or Admission to the Honors College and declaration of a minor in Social Welfare, or permission of the instructor.

University Honors, Writing

SW410 Human Behavior and the Social Environment I  
Hours 3  
This is the first course in a two-semester sequence that that uses a life course perspective as a framework for preparing students with knowledge of theories that support beginning-level generalist practice. It explores the reciprocal relationship between human behavior and social environments. This first course focuses on the development of the individual from conception through adolescence.

Prerequisite(s): Admission to BSW program and completion of BSC 108 or BSC 109, or BSC 114/115, or BSC 116/117, PY 101 or PY 105, SOC 101, SW 100 or SW 105, SW 200 or SW 205, SW 351 or SW 355, or minor in social welfare with successful completion of SW 100 or SW 105, and SW 200 or SW 205, SW 351 or SW 355.

SW411 Human Devel Soc Envir II  
Hours 3  
A continuation of SW 410.

Prerequisite(s): SW 410

SW414 Chemical Dependency  
Hours 3  
Drug and alcohol use and abuse are deeply intertwined into the psychosocial and economic fabric of American society. This course will introduce the student to major theories of addiction as well as the physiological and psychological results of substance abuse. State and federal policies regarding control of drugs, alcohol, and tobacco will also be discussed. The effects of chemical dependency on special populations, including ethnic minorities, people of color, gays and lesbians, dually diagnosed, the elderly, and women will be reviewed.

Prerequisite(s): A student must be either junior or senior-level in good standing with the University. Permission of the instructor is necessary for any other student.

SW419 International Social Development  
Hours 3  
This three credit course is designed for undergraduate and graduate students who have interest in international social development. It exposes students to a wide range of development issues, contemporary debates on those issues, and the people involved in those debates.

Prerequisite(s): Sophomore-, junior-, or senior-standing

SW420 Research for Social Work Practice  
Hours 3  
Basic research methods for the generalist social worker. Focuses on the role of research in building knowledge, critical assessment of research reports, use of research techniques, and application of research findings to generalist social work practice.

Prerequisite(s): Admission into the BSW program, SW 101, SW 100 or SW 105, SW 200 or SW 205, SW 351 or SW 355, SW 310 or exemption for earning a B- or higher on the writing exam, completion of one of the following statistics courses with a "C" or higher: BER 345, CJ 381, PY 211, SOC 301, ST 250, or ST 260
SW425 Research for Social Work Practice Honors

_UH_  

Hours 3  

Basic research methods for the generalist social worker. This honors class focuses on the role of research in building knowledge, critical assessment of research reports, use of research techniques, and application of research findings to generalist social work practice.  

Prerequisite(s): Admission to the Honors College and the Professional Program in Social Work or Admission to the Honors College and declaration of a Social Welfare Minor or Permission of the BSW Program Chair or the Assistant Dean for Educational Programs and Student Services in the School of Social Work. Completion of the statistics requirement with a "C-" or better: BER 345, CJ 381, PY 211, SOC 301, ST 250 or ST 260.

University Honors

SW437 Forensic Social Work

Hours 3  

This course introduces students to forensic social work, defined by the National Association of Forensic Social Workers as "the application of social work to questions and issues relating to law and legal systems, both criminal and civil.".  

Prerequisite(s): Junior status or permission of the instructor

SW440 Social Work Practice with Individuals and Families

_W_  

Hours 3  

Provides the student with the opportunity to gain knowledge, understanding, and competence needed for social work practice with individuals and families at the beginning professional level. Writing proficiency within this discipline is required for a passing grade in this course.  

Prerequisite(s): Admission to BSW Professional Program, SW 101, SW 100 or SW 105, SW 200 or SW 205, SW 351 or SW 355, SW 310 or exemption for earning a B- or higher on the writing exam.  

Writing

SW441 Social Work Practice with Groups

Hours 3  

The student is taught the fundamentals of group process, method, and content, and is prepared for social work practice with groups at the beginning professional level.  

Prerequisite(s): Admission to BSW Professional Program, SW 101, SW 100 or SW 105, SW 200 or SW 205, SW 351 or SW 355, SW 310 or exemption for earning a B- or higher on the writing exam, SW 410, SW 440.

SW442 SW Practice with Communities

Hours 3  

Prepares students to secure resources for clients in the community setting. Application of problem solving to improving community life.  

Prerequisite(s): Admission to BSW Professional Program, SW 101, SW 100 or SW 105, SW 200 or SW 205, SW 351 or SW 355, SW 310 or exemption for earning a B- or higher on the writing exam, SW 410, SW 440.

SW443 Seminar in Generalist Practice

Hours 3  

Required course designed to accompany field placement. Seeks to assist students in integrating foundation content with field experience, with emphasis on generalist practice. Offered only in the fall semester.  

Prerequisite(s): Admission to BSW Professional Program and SW 101 and (SW 100 or SW 105) and (SW 200 or SW 205) and (SW 351 or SW 355) and (SW 310 or exemption for earning a B- or higher on the writing exam) and SW 401 and SW 410 and SW 411 and SW 440 and SW 444 and SW 442 and SW 444.

Prerequisite(s) with concurrency: SW 490, SW 420

SW444 Field Preparation Seminar

Hours 1  

This course is designed to prepare social work students for the integrated and experiential learning of a social work field placement. As the profession's signature pedagogy, field education socializes students to perform the role of practitioner making the connection between the theoretical and conceptual classroom content and the practice setting. The approach to making this connection requires taking classroom knowledge, skills, and values and applying these concepts through a process of reflection and analysis. This course focuses on the salient concepts and issues that commonly pose challenges in the field setting. This is a required course and must be completed before SW 443 or SW 445 and SW 490.

Prerequisite(s): Admission to the Professional Program is a prerequisite; SW 410 and SW 440 are required as prerequisites or concurrent requisites.

Prerequisite(s) with concurrency: SW 410 and SW 440

SW445 Social Work Honors Seminar

_UH_  

Hours 3  

This seminar provides structured learning opportunities that enable students to complete their Capstone Honors Project. Students will apply in-depth knowledge of generalist social work practice to projects that emphasize values consistent with the social work profession. Although the projects will vary in scope, the expected results will be improvement in the bio-psychosocial functioning in individuals, families, groups, organizations, or communities. While students will be evaluated individually, it is expected that students will have opportunities to work in teams and groups to accomplish the specific goals of the projects while enrolled in SW 445.

Prerequisite(s): Admission to BSW Professional Program, SW 101, SW 100 or SW 105, SW 200 or SW 205, SW 351 or SW 355, SW 310 or exemption for earning a B- or higher on the writing exam, SW 401, SW 410, SW 411, SW 440, SW 441, SW 442, SW 444.

Prerequisite(s) with concurrency: SW 420 or SW 425, SW 490

University Honors

SW457 Special Topics

Hours 1-6  

Junior standing Special topics.
SW490 Field Education
Hours 9

Planned field experience in which the student is placed in a community service agency for a minimum of 32 hours a week, working under the joint instruction of the agency and the School of Social Work. For senior social work majors only. Offered in the fall semester only.

Prerequisite(s): SW 100, SW 200 or SW 205, SW 351 or SW 355, SW 401 or SW 405, SW 410, SW 420 or SW 425, SW 440, SW 411, SW 441, and SW 442

Prerequisite(s) with concurrency: SW 443 or SW 445

SW498 Independent Study
Hours 1-6

An opportunity for individual students or groups of students to assume liberal responsibility for developing their own learning objectives in conjunction with a faculty member who has expertise in the area, and for pursuing these objectives in relation to a social welfare program or function. By permission of the instructor, program chair, and associate dean. Permission must be obtained during the preceding semester.
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Grade point averages are computed on the following grades: "A," "B," "C," "D," "F," or "I" and any pluses or minuses that appear on the record. In computing a GPA, an "I" counts as an "F" until replaced by the earned grade. Grades of "P," "W," "NA," or "NC" are not used when computing the GPA.

**Overall and Institutional GPA**

A student’s overall GPA is comprised of all work completed at the collegiate level, including work completed at The University of Alabama as well as work completed at other postsecondary institutions and accepted for credit at The University of Alabama in accordance with the Transfer Credit Policy. A student’s institutional GPA is comprised solely of work completed at The University of Alabama. Both the overall
and institutional GPA calculations take into account all attempted work that comprise each individual GPA. All failed, repeated, or otherwise insufficient coursework is used to make the calculations.

**Sample Overall/Institutional GPA Calculation**

A student’s overall or institutional GPA is calculated by dividing the total number of quality points earned by the total number of GPA hours. (To calculate the total number of quality points earned, refer to the chart in the Grade and Grade Points section of this catalog.) Then, take the point value (4.33, 4.0, etc) of each grade earned and multiply by the number of credit hours each course is worth. The sum total of those calculations will result in the total quality points. The sum of all credit hours used in the GPA calculation will result in the total number of GPA hours. Please note that grades of “P,” “W,” “NA,” and “NC” are not included in the GPA calculation. A cumulative GPA of 4.0 is the highest GPA an undergraduate can receive. See below for a sample calculation:

<table>
<thead>
<tr>
<th>GPA Hours</th>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>B-</td>
<td>10.68</td>
</tr>
<tr>
<td>3</td>
<td>F</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>D+</td>
<td>3.99</td>
</tr>
</tbody>
</table>

**Total Quality Points/Total GPA Hours = GPA**

Example: 32.67/16 = 2.04 GPA

**Major and Minor GPA**

In order to graduate with a particular major or minor, a student must earn at least a 2.0 GPA in the courses required for the major or minor. However, a major or minor GPA is calculated differently than an overall or institutional GPA. The same formula of total quality points divide by total GPA hours is used, but certain instances of classes that are included in overall and institutional GPA calculation are excluded when calculating a major or minor GPA.

A student’s major GPA is calculated in the following manner:

- Only classes currently completing major or minor requirements up to the total number of hours required for that particular major or minor.
- Failed, repeated, or otherwise insufficient attempts of classes are not used in the calculation.
- Successfully completed classes in excess of what is required to complete the major or minor are not used in the calculation.
- When multiple classes can be used to complete a particular requirement, the class with the best grade will be used in the calculation.
- Both UA institutional coursework and transfer work will be used in the calculation.

Other considerations when calculating major and minor GPAs include the following:

- Certain majors or minors may require a GPA higher than a 2.0. Always consult with your academic advisor for requirements specific to your program of study.
- Certain programs of study calculate GPAs for specific groups of courses that do not follow the calculation method outlined above. Always consult with your academic advisor for requirements specific to your program of study.

**Sample Major/Minor GPA Calculation**

The requirements for the English minor are as follows:

<table>
<thead>
<tr>
<th>Requirement #</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EN 205 or EN 215</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>EN 206, EN 207, EN 208, EN 209, EN 210, or EN 249 (or honors equivalent)</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>EN electives 300 or 400 level</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total**

21

A sample of a student’s coursework that could apply to the English minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credits</th>
<th>Applied to GPA?</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 205</td>
<td>A</td>
<td>3</td>
<td>Yes</td>
<td>Applies to Requirement #1</td>
</tr>
<tr>
<td>EN 206</td>
<td>B</td>
<td>3</td>
<td>Yes</td>
<td>Applies to requirement #2</td>
</tr>
<tr>
<td>EN 207</td>
<td>A</td>
<td>3</td>
<td>Yes</td>
<td>Applies to requirement #2</td>
</tr>
<tr>
<td>EN 208</td>
<td>B</td>
<td>3</td>
<td>Yes</td>
<td>Applies to requirement #2</td>
</tr>
<tr>
<td>EN 208</td>
<td>F</td>
<td>3</td>
<td>No</td>
<td>Class was failed</td>
</tr>
<tr>
<td>EN 330</td>
<td>A</td>
<td>3</td>
<td>Yes</td>
<td>Applies to requirement #3</td>
</tr>
<tr>
<td>EN 348</td>
<td>B</td>
<td>3</td>
<td>Yes</td>
<td>Applies to requirement #3</td>
</tr>
<tr>
<td>EN 422</td>
<td>C</td>
<td>3</td>
<td>Yes</td>
<td>Applies to requirement #3</td>
</tr>
<tr>
<td>EN 466</td>
<td>C-</td>
<td>3</td>
<td>No</td>
<td>In excess of credits required in requirement #3 and lowest grade of classes that could apply</td>
</tr>
</tbody>
</table>

The actual calculation of the sample English minor GPA:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credits</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 205</td>
<td>A</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>EN 206</td>
<td>B</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>EN 207</td>
<td>A</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>EN 208</td>
<td>B</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>EN 330</td>
<td>A</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>EN 348</td>
<td>B</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>EN 422</td>
<td>C</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Quality Points/Total Credits = Minor GPA**

Example: 69/21 = 3.28

**Grades and Grade Points**

Grades are awarded for University of Alabama undergraduate courses according to the following table of letter grades and values:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.33</td>
</tr>
</tbody>
</table>
Policy on Grading

In undergraduate courses at The University of Alabama, passing grades are "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," "D+," "D," and "D-." The "F" and "I" grades cannot be modified with a + or -. Four grade points are given for each hour of "A," three grade points for each hour of "B," two grade points for each hour of "C" and one grade point for each hour of "D." The plus sign added to a grade raises the points awarded by 0.33 points per hour. A minus sign lowers the points awarded by 0.33 points. For example, each hour of "C+" earns 2.33 grade points. Please refer to the grade points table for a complete listing of grades and their corresponding point values. Where departmental or other regulations require a minimum grade in a course or courses (for instance, the requirement to complete all prerequisites with grades of at least "C") a minus sign shall be appended to the minimum grade. That is, a "C-" indicates "any kind of C." The syllabus for each individual University of Alabama undergraduate course specifies the criteria upon which work in the course will be graded. NOTE: A cumulative GPA of 4.0 is the highest GPA an undergraduate can receive.

In all freshman composition and introductory math courses, the following grades may be reported: "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," "D+," "D," and "D-." The "NC" grade is not included in the computation of grades. Use of the pass/fail option is subject to the following regulations:

- The student must be a sophomore, junior, or senior with a GPA of 2.0 or higher in order to use the pass/fail option.
- Only elective courses may be taken pass/fail.
- A maximum of four courses or 12 credit hours (whichever comes first) may be taken pass/fail while a student is earning an undergraduate degree.
- Only one course each fall semester, spring semester, and summer term may be taken pass/fail.
- Once the deadline to add a course has passed, a student may not rescind the decision to take a course with the pass/fail option.

In computing the number of credit hours attempted, each enrollment in a course is counted (any required course in which an "F" is earned must be repeated and passed; hours in freshman composition and introductory math courses for which "NC" was reported are not included in GPA computations). In some academic divisions, a student who has obtained the dean’s permission may repeat a course for which he or she has already earned credit. Each enrollment is counted in the number of credit hours attempted and in the computation of the GPA. However, only the final enrollment may be applied to the requirements for the degree.

Incompletes and Failures

If a grade of "F" is earned in a required course, the student must repeat the course and earn a passing grade in order to receive credit that will be applied to the requirements for the degree. Grades of "I" must be removed within 12 months of the end of the term in which they were awarded but prior to the student's graduation or the grade of "I" will be changed to "F." The "I" may not be used as a means to re-enroll in a course during a subsequent semester. A grade of "I" may not be used to satisfy a prerequisite requirement.

Pass/Fail Option

A student who is in good academic standing may request permission to receive a grade of "P" or "F" for a course, instead of the conventional "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," "D+," "D," "D-," or "F." A grade of "P" does not affect the GPA. However, a grade of "F" received in a course that the student has chosen to take under the pass/fail option is computed in the GPA. Use of the pass/fail option is subject to the following regulations:

- The student must be a sophomore, junior, or senior with a GPA of 2.0 or higher in order to use the pass/fail option.
- Only elective courses may be taken pass/fail.
- A maximum of four courses or 12 credit hours (whichever comes first) may be taken pass/fail while a student is earning an undergraduate degree.
- Only one course each fall semester, spring semester, and summer term may be taken pass/fail.
- Once the deadline to add a course has passed, a student may not rescind the decision to take a course with the pass/fail option.

A transfer student must have completed at least 15 credit hours at The University of Alabama with a GPA of 2.0 or higher in order to use the pass/fail option.

Repeat Course Policy

The grade and credit of the last (most recent) attempt of a course taken more than once will count in the student’s GPA and earned hours. All previous attempts will only count in the calculation of the GPA but not in earned hours. This also applies to courses taken at other institutions and transferred in to UA as an equivalent course.
Requests for exceptions to this policy shall be submitted in writing (or email) by the college to the vice provost for academic affairs.

Federal regulations limit the number of times a student may repeat a course and receive financial aid for that course. Questions about these regulations should be emailed to the Student Financial Aid Office through their webpage financialaid.ua.edu.

Auditing Courses

Auditing a course allows a student to take a class without the benefit of a grade or credit for a course. A student who audits a course does so for the purposes of refreshing one’s knowledge, self-enrichment, and academic exploration.

The student must gain prior approval from the department offering the course in order to audit the course. The department will then work with the college’s student services office which will submit a request to the Office of the University Registrar to add the course to the student’s schedule as an audit. The deadline for gaining permission/registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester.

Auditors receive no credit toward a degree, and an “AU” grade appears on the transcript. The credit received when auditing a course does not count toward your verification of full, half, or less than half-time enrollment status. This credit is not reported to the National Student Clearinghouse for enrollment verifications.

The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. An auditor is typically considered a passive learner and may not recite in class or take examinations, but is expected to attend classes with reasonable regularity and do some assigned work. Please check with the instructor regarding his or her expectations. Auditors pay standard tuition/fees for the course[s].

Non-Attendance Grading

Federal regulations require that institutions have a system for identifying students that registered for, but failed to begin attendance in any or all classes. Institutions are responsible for any aid disbursed to these students. For students that cease attending classes, institutions are required to determine the date of last attendance for calculating the correct percentage of aid awarded based on the payment period completed prior to the last attendance date. Further, if there is no grading system that differentiates between an earned “F” and an “F” assigned for non-attendance, then the student is considered to have never attended or withdrawn for auditing purposes.

When inputting midterm and final grades, instructors are required to select one of the following reasons when a grade of “F” (or “NC”) is assigned:

- **Earned**: Based on the evaluation of the student’s work throughout the semester, the instructor has determined that the student failed to meet the stated objectives of the course.
- **Never Attended**: The student did not attend a single class meeting or, in the event of online/distance learning courses, the student never participated in or contributed to the class.
- **Stopped Attending**: The student stopped attending class during the semester and failed to return to resume participation. A “Last Attend Date” is required and should reflect the last documented class attendance or participation. Examples of documented attendance may include presence in class or during exams, completion of assignments, and/or participation in computer-assisted instruction.

Following the last day to drop a class with a grade of “W” for a given term, all grades of “F” (or “NC”) submitted during midterm grading will be reflected on the student’s transcript as final grades. Any subsequent grades of “F” or “NC” submitted during the remainder of the term through final grading will also be reflected on the student’s transcript as final grades. Midterm grades of “F” (or “NC”) assigned with a reason of “Earned” will not be reflected on the transcript. The student will be able to continue on in the class and attempt to improve the grade.

Student registration will not be adjusted based on the assignment of failing grades with a reason of Stopped Attending or Never Attended. No tuition adjustments will be made for students who receive a failing grade for reasons of Stopped Attending or Never Attended unless they have properly withdrawn from that course within the established refund dates as published. All grades of “F”, regardless of the reason for which they are assigned, will be punitive in regards to GPA. Grades of “NC” will continue to be non-punitive.

Honors

Dean's List and President’s List

A dean’s list of superior students is compiled and published at the close of each semester. Inclusion on the dean’s list requires a student have a GPA of at least a 3.5 for a minimum of 12 credit hours earned in a fall, spring, or summer semester. Only enrollment in University of Alabama coursework counts toward the 12 credit hour requirement. All students achieving dean’s list honors will have this accomplishment indicated on their University of Alabama transcript.

Undergraduate students enrolled in the University Scholars Program will have the grade points earned in the approved program-specific, graduate-level courses counting toward their undergraduate program of study applied to the dean’s list calculation.

The president’s list recognizes students who make the dean’s list with a 4.0 GPA. The president’s list is not a separate honor and it is not indicated on a student’s University transcript. Students’ scholastic achievements may be further recognized by election to national scholastic honor societies and activities held during Honors Week.

NOTE: Neither the dean’s list nor the president’s list are published until completion of the deferred examination period for the term (see the Examinations and Reports section of this catalog).

Latin Honors Designation

At graduation, the Latin honors designations cum laude (3.5 GPA but less than 3.7 GPA), magna cum laude (3.7 GPA but less than 3.9 GPA) and summa cum laude (3.9 GPA or higher) based only upon The University of Alabama institutional GPA and a minimum of 45 UA semester hours distinguish students who have qualified in their academic divisions for these designations.

Undergraduate students enrolled in the University Scholars Program may have the grade points earned in the approved program-specific, graduate-level courses applied to honors calculations provided the courses fulfill the undergraduate requirements and appear in the Degree Works audit report.

Latin Honors may apply to a subsequent undergraduate degree provided 45 UA degree-seeking hours above those used to fulfill requirements for the first undergraduate degree are satisfactorily completed.

Students approved for Academic Second Opportunity may qualify for Latin Honors contingent upon completion of a minimum of 45 UA hours
required to complete the degree above and beyond the course hour adjustment made by Academic Second Opportunity.

Students who have been approved for academic bankruptcy (one semester) are eligible for Latin Honors contingent upon a completion of a minimum of 45 UA hours required to complete the degree above and beyond the course hour adjustment made for academic bankruptcy.

Transcripts

Official transcripts are issued by the Office of the University Registrar to recognize institutions and agencies that require these documents. Official transcripts are issued and mailed or sent electronically (PDF) only upon the named student’s written request. Transcripts are not issued for persons who have financial obligations to the University. A fee is charged for each transcript and any service enhancements requested.

Information regarding the process for requesting an official transcript can be viewed on the Office of the University Registrar’s website.

Curriculum

Core Curriculum/General Education Requirements

To achieve a general education while pursuing a specific concentration in a chosen field of study, each undergraduate student will construct a curriculum that includes coursework in key areas. Read more. (p. 889)

Examinations and Reports

Final examinations are held at the end of each term. Read more. (p. 890)

Graduation

Degrees are conferred at the close of each fall and spring semester and summer term. Read more. (p. 890)

Majors and Degrees

Degree programs may provide academic, pre-professional, or professional experiences and preparation. Read more. (p. 891)

Postgraduate Students

A student holding a bachelor's degree from a regionally accredited institution of higher learning may earn a second bachelor's degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the College and University level. Read more. (p. 894)

Registration

Prior to registering for classes each term, students may require academic advising using the procedures established by each division. Read more. (p. 894)

UA System Cooperative Exchange Program

The University of Alabama System has a Cooperative Exchange Program that allows a student at any of the system's campuses (Birmingham, Huntsville, or Tuscaloosa) to enroll in one course at one of the other campuses. Read more. (p. 895)

Core Curriculum/General Education Requirements

Applicable to students who begin their college careers fall 1998 and after, except for students enrolled in the College of Engineering. (See "College of Engineering Core Curriculum/General Education Requirements" below.)

To achieve a general education while pursuing a specific concentration in a chosen field of study, each undergraduate student will construct a curriculum that includes coursework in the following areas:

1. Six semester hours of written composition (FC).
2. Six semester hours in 300- and 400-level courses, preferably in the student's major, approved for the writing (W) designation. The (W) designation indicates that one of the conditions for a passing grade is that students write coherent, logical, and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before midsemester. All (W) designated courses are taught and graded by instructors who have at least the master's degree and preferably are limited to an enrollment of no more than 35 students. The (W) requirement must be satisfied with courses taken at UA.
3. Six semester hours of one of the following:
   • Six semester hours in courses that are approved for the computing (C) designation. These courses either substantially integrate the application of appropriate software or require writing computer programs. Students must make extensive use of the computer as a condition for passing the course. Courses approved for the (C) designation assume that students have a working knowledge of the computer.
   • Two semesters in one foreign language (FL) at the introductory/elementary level (101/102) level. A grade of "C-" or better must be earned in the first-semester course of the two-semester sequence that fulfills the requirement before the student will be allowed to enroll in the second semester course. Students with two or more high school units of a foreign language will be assigned to foreign language courses by the foreign language advisors on the basis of placement test scores. Students placed directly into introductory/elementary level (102), accelerated/intensive review (103), intermediate level (201/202), or a higher level foreign language course where 201/202 is a prerequisite will be considered as having satisfied this requirement in one semester. Non-native speakers of English will fulfill the foreign language requirement upon successful completion of EN 120 and EN 121.
   • Note: These six hours are in addition to the requirements for humanities or mathematics.
4. Twelve semester hours of courses approved for the humanities and fine arts (HU, L, & FA) designations, to include three semester hours of courses approved for the fine arts (FA) designation and three semester hours of courses approved for the literature (L) designation. Each student must complete a six-semester-hour sequence in either literature or history.
5. Twelve semester hours of courses approved for the history and social and behavioral sciences (HI & SB) designations, to include three semester hours of courses approved for the history (HI) designation. Each student must complete a six-semester-hour sequence in either literature or history.
6. Eleven semester hours of courses approved for the natural sciences and mathematics (N & MA) designations, to include eight semester hours of courses approved for the natural sciences (N) designation.
and three semester hours of courses approved for the mathematics (MA) designation. This mathematics requirement must be satisfied with MATH 110 or higher.

7. Preprofessional, major, and/or elective courses applicable to the student’s declared major program of study. Students are to consult with their major departments/program areas for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example, if a course carries a designation for both foreign language (FL) and humanities (HU), it may only be used to satisfy one of these core requirements. An additional course or courses must be completed to satisfy the remaining requirement.

A student may satisfy some general education course requirements by demonstration of competence on a proficiency examination such as the CLEP subject examination.

Review of general education (core curriculum) courses is an ongoing process. New courses may be approved and added to the list of those that meet core curriculum requirements. The core designations for existing courses may be discontinued. A course carries general education designation if the course is approved at the time the course is taken. The student must consult the general education designations as found in the appropriate section of the schedule of classes booklet to ensure that the general education designation is in effect at the time the course is taken.

General education credit may be earned for courses taken at another institution, provided the courses transfer as the equivalents of courses that have been approved for general education credit at The University of Alabama. The (W) requirement must be satisfied in courses taken at The University of Alabama.

**College of Engineering Core Curriculum/General Education Requirements**

To achieve a general education while pursuing a specific degree program in the College of Engineering, each undergraduate student enrolled in that college will construct a curriculum that includes coursework in the following areas:

1. Six semester hours of written composition (FC).
2. Six semester hours in 300- and 400-level courses, preferably in the student’s major, approved for the writing (W) designation. The (W) designation indicates that one of the conditions for a passing grade is that students write coherent, logical, and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before midsemester. All (W) designated courses are taught and graded by instructors who have at least the master’s degree and preferably are limited to an enrollment of no more than 35 students. The (W) requirement must be satisfied with courses taken on this campus.
3. Nine semester hours of humanities (HU), literature (L), and fine arts (FA) area courses. Six semester hours are required in a discipline. A six-hour depth study is required and may be taken in either HU, L, and FA or HI and SB. There are no mandatory general education requirements for literature or fine arts, except as required for a specific engineering program.
4. Nine semester hours of courses in the areas of history (HI) and social and behavioral sciences (SB), to include six semester hours in a discipline. A six-hour depth study is required and may be taken in either HU, L, and FA or HI and SB. History may be included in in-depth courses.
5. Twelve semester hours of mathematics (MA) and natural sciences (N) area courses, to include two hours of laboratory. Mathematics must be at the MATH 125 level or higher.
6. Either six hours of foreign language (FL) or computing (C) are required in addition to the humanities requirement. FL courses can count as HU credit if six hours of C courses are earned.
7. Preprofessional, major, and/or elective courses applicable to the student’s declared major program of study. Students are to consult with their major departments/program areas for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example, if a course carries a designation for both foreign language (FL) and humanities (HU), it may only be used to satisfy one of these core requirements. An additional course or courses must be completed to satisfy the remaining requirement.

General education credit may be earned for courses taken at another institution, provided the courses transfer as the equivalents of courses that have been approved for general education credit at The University of Alabama. The (W) requirement must be satisfied in courses taken at The University of Alabama.

**Examinations and Reports**

Final examinations are held at the end of each term. The final examination schedule may be found on the Academic Calendar. In addition, one or more announced tests may be administered in a class during each term. At the beginning of each semester, the student should review the published final examination schedules and consult with his or her professors about examination requirements as well as the dates and times of final examinations.

Deferred examinations are administered at the beginning of each term for the purpose of removing grades of "I." A schedule of deferred examinations is posted well in advance of the beginning of the semester. (See Incompletes and Failures under the Grades and Grade Points (p. 885) section of this catalog.)

At the close of each term, students can access their grades through myBama.

**Graduation**

Degrees are conferred at the close of each fall, spring, and summer semester. A degree application fee is charged to the student account early in the semester of graduation and is payable to the Student Account Services prior to graduation.

**Application for Degree**

To graduate, a student must submit an Application for Degree online by the deadline published on the Academic Calendar.

All students who complete degree requirements will receive diplomas by mail in accordance with the deadlines published on the Academic Calendar for the graduation term.

**Graduation Requirements**

To be eligible for a baccalaureate degree in any school or college, a student must earn in residence in that school or college at least one-fourth of the semester hours required for the degree. The schools and colleges may specify that advanced course work and additional course hours in the major and minor fields be taken in residence. Students should review the individual college residency requirements found in
each college or school section of the undergraduate catalog. A student who is within one semester of completing all degree requirements and plans to complete some or all of those remaining requirements at an institution other than The University of Alabama must seek the approval of the student’s dean’s office prior to enrolling elsewhere in order to assure compliance with University and divisional residency requirements.

NOTE: Students in the College of Education must seek advisement with their college advisor prior to enrolling at another institution of higher education during their last semester of enrollment to ensure compliance with state teacher certification eligibility factors.

In order to qualify for a degree from The University of Alabama, a student must earn a GPA of at least “C” (2.0 on a 4.0 grading system) for all work attempted; transfer students must also earn GPAs of at least 2.0 (“C”) for work attempted at The University of Alabama. In addition, the student must earn an average of “C” or higher for all work applying to the major. Some divisions of the University may have higher GPA requirements for graduation; the divisional requirements for graduation are found in the sections of this catalog pertaining to each school and college.

Students are required to complete the degree requirements as stated in the catalog for the academic year during which they begin earning baccalaureate credit at The University of Alabama. Transfer students will be held to the same standard regardless of when baccalaureate credit may have been earned at other institutions. If students do not complete degree requirements within seven years from the date they began earning baccalaureate credit at The University of Alabama, they must change to a current or more recent catalog, under which they will have seven years from the start of that catalog year to complete their degree. Students may choose a later catalog up to or including the one current at the time of their graduation.

Credit-Hour Requirement for Degree
Bachelor’s degrees awarded by The University of Alabama require a minimum of 120 hours; some degree programs require more than 120 hours. It is the responsibility of the student to be familiar with the degree requirements of the student’s chosen program. For detailed information regarding requirements for a specific degree, please refer to the appropriate section of this catalog.

Independent Study and Extension Classes
In general, the maximum baccalaureate degree credit that may be earned through independent study, extension classes, or a combination of the two is 25 percent of the total number of hours required for graduation, subject to the following provisions:

- The credit earned for independent study and extension classes must not conflict with general requirements for graduation.
- A student who plans to earn degree credit by independent study must have this plan approved in advance by the dean of the student’s academic division.
- Any student in an undergraduate division of The University of Alabama who lacks one semester’s work or less for completion of degree requirements, and whose attendance at the University is interrupted by orders for duty in any of the armed forces, shall be permitted to complete the requirements for graduation by independent study, provided that the credit earned for independent study does not exceed 25 percent of the work required for the degree. Such a student may also choose to complete some or all of the remaining one semester (or less) of work at another accredited institution. The work at another accredited institution may include independent study, night classes, extension classes and/or regular classes in residence. Any work taken under these conditions must be approved in advance by the dean of the school or college awarding the degree.
- Students in the School of Law are not covered by these provisions.

Guidelines for Consideration of Course Substitution Requests
A student is expected to satisfy all University degree requirements in effect when the student first scheduled a class after the student’s admission or most recent re-enrollment as a degree candidate. Requirements for a program (such as major, minor, option, honors) are those in effect at the time of the student’s admission or most recent re-enrollment into that program.

A student wishing permission to deviate in any way from program requirements must have permission from the student’s college of enrollment. Permission should be obtained prior to enrollment in the substituted course.

- Authority for granting an exception to the core/general education requirements resides exclusively with the Office for Academic Affairs.

The course to be substituted should be in the same area as the required course or in a related area:

- Substitution of a course for a previously failed required course is seldom granted.
- Failure to schedule a required course is not sufficient reason for granting permission for a course substitution.

Student action:

- Contact your divisional student services area for information on how to request a course substitution or exception.
- The University may make changes in policies, procedures, educational offerings, and requirements at any time. Please consult an academic advisor within your college of enrollment for more detailed information.
- Approved substitutions for majors, minors, and concentrations will be posted to the student’s degree audit in DegreeWorks by the student’s college following the dean’s approval. Approved substitutions for general education requirements will be posted to the student’s degree audit by the Office of the University Registrar following approval from the Office for Academic Affairs.

Majors and Degrees
Bachelor’s Degree
A bachelor’s degree is an award signifying a rank or level of undergraduate educational attainment. Particular types of bachelor’s degrees identify educational programs having common objectives and requirements. Degree programs may provide academic, pre-professional, or professional experiences and preparation. Majors lead to a bachelor’s degree. Each student must select a major within a bachelor’s degree type. If options are offered within a major, a student selects one. The student may also elect to enroll in a minor to supplement the major. Alternatively, the student may seek to enroll in multiple majors within the same type of bachelor’s degree or to enroll in a concurrent degree program. A bachelor’s program of study shall consist of no fewer than 120 credits. Students may elect to take courses beyond the minimum requirements of a degree program.
Second Bachelor's Degree

Students and former students interested in obtaining a second bachelor's degree and currently enrolled students interested in earning concurrent degrees must follow the stipulations as described in the following paragraphs.

A student may only be awarded one degree with the same degree type (i.e., Bachelor of Arts, Bachelor of Science, Bachelor of Science in Electrical Engineering, etc.). For example, once a Bachelor of Arts is earned, a student may pursue a second major associated with a Bachelor of Arts but not a second Bachelor of Arts degree. In this example, the student could pursue a Bachelor of Arts in Communication because the degree type is different.

Currently enrolled students are encouraged to pursue graduate level studies toward an advanced degree through the University Scholars Program in lieu of pursuing a concurrent bachelor’s degree. Students should contact their primary college of residence for additional University Scholars Program information.

A currently enrolled student may earn two different bachelor's degrees (i.e., a BA and a BS) concurrently if he or she meets the following requirements:

- earns a minimum of 30 additional credit hours over and above the number of credit hours required for the primary degree
- earns a minimum of 60 credit hours in residence (dependent upon the number of credit hours required to earn the two degrees)
- meets all degree, College and University requirements for both degree programs
- meets all prerequisites and course requirements in the two different major fields

Courses may be counted toward meeting the requirements in more than one area unless specifically prohibited by the academic departments and so stated in the catalog. However, credit for such a course cannot be applied toward both the total hours required for the first degree and the additional hours required for any additional degree.

NOTE: Both degrees do not have to be received in the same semester provided the concurrent degree plan of study was approved prior to the receipt of the first degree; otherwise, see the next bullet below.

A student who has previously earned a bachelor's degree from The University of Alabama and wishes to pursue further undergraduate work may complete an additional major and have it noted on the official transcript (with date of completion) or earn a second degree if it is different from the first (i.e., a BA if the first degree was a BS and vice versa). This student must apply for readmission for the second degree and then:

- earn a minimum of 30 additional credit hours in residence at The University of Alabama over and above any hours applied to the first degree
- complete all hours for the degree in the college awarding the degree except in special circumstances approved by the dean
- meet all degree, College and University graduation requirements for the second degree program in the catalog under which the student enters or in a subsequent catalog
- meet all prerequisite and course requirements in the major field(s) for the second degree

A student holding a bachelor's degree from a regionally accredited institution of higher learning may earn a second bachelor's degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the college and University level. This student must apply for admission for the second degree and then:

- meet all requirements for the second degree to include all course hours, grade point, ancillary, prerequisite, and residency requirements specified by the degree program
- earn 25 percent of the degree requirements (a minimum of 30 additional credit hours for a 120-hour degree) in residence at The University of Alabama over and above any hours applied to the first degree

If a student holds a bachelor's degree from a regionally accredited institution of higher learning, the University presumes all general education, core curriculum requirements are completed. This presumption does not apply to ancillary college and curricular requirements required by the college awarding the degree.

Students are responsible for declaring their intent to pursue a second bachelor’s degree by filing an approval plan of study with the primary college of residency. To ensure appropriate advising, approval is obtained at a point when no fewer than 30 hours of coursework remains for the completion of one or both degrees. Students are also responsible for re-filing updated plans of study if changes are desired.

For degrees in different colleges, students must establish one college as their primary college of residency. If program accreditation is a component of the degree program, then the primary college of residency must be the college of the degree program whose professional accreditation requires residency. The student must pay all fees and adhere to all requirements of each college, other than residency.

Students are responsible for filing an application for each degree sought according to the published degree application submission deadlines of the colleges and/or schools recommending the degrees and within the deadlines established by the Office of the University Registrar.

Joint/Shared Degree

A joint/shared degree program involves a student working toward a degree mutually sponsored by UA, The University of Alabama at Birmingham (UAB), and/or The University of Alabama in Huntsville (UAH) leading to a single degree which is conferred by all participating institutions. A joint degree program is unique and distinguishable from any program offered independently at any one of the three institutions. The joint/shared degree program must be established through the student’s primary institution of residency.

Multiple Institutions Bachelor's Degree

A Multiple Institutions Bachelor's Degree is a special degree based on a Transfer Articulation Agreement. The agreement is a contract between two institutions of higher education, allowing the student to complete a specific set of courses at each institution to complete requirements for a bachelor's degree. The agreement is program specific and institution specific, so the courses of a specific institutional program have a guaranteed application toward a specific bachelor's program at the other institution.

Majors

A major is an academic program of study within a degree designation. It is that part of a degree program consisting of a specified number of hours from a defined group of courses in a primary discipline or field. Students are expected to acquire some mastery of a particular discipline or interdisciplinary area as well as to achieve a breadth of intellectual experience. A new major must go through the College/School curriculum approval process and be approved by the Office of the Vice Provost for
A major must comprise a minimum of 30 semester hours of coursework specified by the academic department.

Multiple Majors
Students may pursue multiple majors (two or more majors) at the same time within a single bachelor’s degree or across degree types. To earn multiple majors, students must fulfill all the major requirements for each major, including any grade point and ancillary requirements. A student may share specific courses pertinent to both majors, provided an agreement has been negotiated and agreed upon between the two colleges or departments involved in granting the majors. Students are not required to complete additional general education/core curriculum requirements beyond those required for the first major, except in the case where additional lower-level courses are needed to fulfill prerequisite requirements of upper level courses. Majors may be selected from multiple colleges, with approval of the college responsible for each additional major, but students must establish one college as the primary college for residency. If a major program’s accreditation requires residency in a specific college, the student will reside in the college whose professional accreditation requires residency. Students are responsible for declaring their intent to pursue multiple majors by filing an appropriate plan of study with their college or school student services office. To ensure appropriate advising, approval should be obtained at a point when no fewer than 30 hours of coursework remain. Once approval is granted, the student services office of the college of residence notifies the Office of the University Registrar of a student’s intent to complete additional major(s). The student is responsible for re-filing updated plans of study with the primary college of residence, if changes in major intent are desired.

NOTE: Students who seek multiple majors across degree types (ex. BA & BS) and earn fewer than 150 hours are awarded one degree with multiple majors. Students who earn 150 or more hours will receive multiple degrees assuming completion of all necessary requirements.

Dual Majors
A dual major program is a program in which two departments within a single college or two departments from two different colleges have formally agreed to allow a student to follow a condensed pathway, sharing specific courses pertinent to both majors. This allows the student to complete the two majors in less time than it would take to earn them separately. More specifically, dual majors are predetermined, lock-step programs defined by the two areas of interest and not self-devised. Some overlap of coursework use is allowed. Dual majors must be approved by the Office for Academic Affairs.

Minors
A minor is part of a degree program in an approved secondary discipline or field outside the major. It requires fewer hours than a major and is awarded only if approved by both the major and minor department and/ or college. A minor must be completed in conjunction with the degree a student is pursuing, and a student may not pursue a minor after a degree has been conferred. A new minor (by each degree level) must go through the college/school curriculum approval process and ultimately be approved by the Office for Academic Affairs. A completed minor is shown on a student’s transcript, but not on the diploma.

A minor must comprise a minimum of 18 semester hours of coursework specified by the department.

Concentrations
A concentration is an approved set of courses within a major that define a specialty area or specific field of study. Concentrations may also be referred to by departments as "Specializations," "Tracks," or "Options." Unless specified by the unit offering the major, a concentration is not required. Both new concentrations or changes to existing concentrations (by each degree level) must go through the college/school curriculum approval process and be approved by the Office for Academic Affairs. Only formally approved concentrations will appear in The University of Alabama Undergraduate Catalog. A completed concentration is displayed on a student’s transcript, but not the diploma.

A concentration must comprise a minimum of nine semester hours of specialized coursework, but must be less than 1/3 of the major (undergraduate) or field of study (graduate).

Focused Area of Study
Degree programs and majors may include a focused area of study, which describes a subset of coursework that is flexible in nature and relates to a specific field or range of content within the curriculum. Focused areas of study are different from concentrations in that they do not require formal approval by the Office for Academic Affairs and are not reflected on student transcripts.

Certificate Program
A certificate program at The University of Alabama complements the undergraduate degree and serves as a way to distinguish/recognize students who concentrate a portion of their coursework in a particular area. Students are not eligible to complete these certificate programs without being enrolled in and successfully completing a degree program. In rare instances, there may be people who have completed an appropriate bachelor’s degree who may then need to complete a certificate for professional certification purposes, but these types of certificates are rare.

The University of Alabama Undergraduate Catalog contains information about certificate programs. Approved certificates are associated with a CIP code and a UA major. Undergraduate certificates are approved by the Office for Academic Affairs. Completion of an approved Certificate Program is reflected on the official transcript but not on the diploma.

NOTE: Some certificate programs are unique to a specific division and are not documented on the transcript. Students who are unsure of whether their certificate will be noted on their transcript should check with the student services office in the division offering the certificate.

A list of Office for Academic Affairs-approved undergraduate certificate programs follows:

- Construction Management Certificate (p. 1144) (Hours)
- Global Studies Certificate (p. 916) (Hours)
- Manufacturing Engineering Certificate
Environmental Engineering Certificate (p. 1145)
Ethics/Social Responsibility Certificate (p. 1208)
Business Analytical Excellence Certificate (p. 1207)
Leadership Communication Certificate (p. 1087)

Postgraduate Students

A student holding a bachelor's degree from a regionally accredited institution of higher learning may earn a second bachelor's degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the college and University level. These students will be classified as postgraduate students. If the initial bachelor's degree was completed at an institution other than The University of Alabama, courses applied toward the completion of that degree will not be transferred to the University and will not count toward a degree. Any coursework completed after the conferral of the initial bachelor's degree will be posted to the student's University of Alabama record in accordance with the Undergraduate Transfer Credit Policy (p. 630).

To complete a second bachelor's degree, a student must apply for admission for the second degree and fulfill the following requirements of the Multiple Degree and Multiple Majors Policy:

- Postgraduate students must meet all requirements for the second degree to include all course hours, GPA, ancillary, prerequisite, and residency requirements specified by the degree program.
- If a postgraduate student holds a bachelor's degree from a regionally accredited institution of higher learning, the University presumes all general education, core curriculum requirements are completed. This presumption does not apply to ancillary college and curricular requirements required by the college awarding the degree.
- Postgraduate students must earn 25 percent of the degree requirements (a minimum of 30 additional credit hours for a 120-hour degree) in residence at The University of Alabama over and above any hours applied to the first degree.

Registration

Prior to registering for classes each term, students may require academic advising using the procedures established by each division.

Currently enrolled students normally register beginning in October for spring semester classes and in March for summer term and/or fall semester classes. A schedule for academic advising and for registration can be found at registrar.ua.edu/student-services/registration. New students register for classes during a new-student orientation session. The Office of Orientation and Special Programs provides new students with information about orientation sessions at orientation.ua.edu. Late registration is permitted until approximately one week after classes begin; there is a penalty fee for late registration.

Courses that receive inadequate registration for a given semester may be dropped from the schedule of classes before the date for enrollment confirmation and tuition payment and/or before the first week of classes.

For the most current information, students should use the online schedule of classes at myBama.ua.edu.

The Semester System

The academic year is divided into two semesters and one summer term. The first semester (fall) begins in late August and ends in December. The second semester (spring) begins in January and ends in May. Fall term consists of one 10-week session (referred to as Fall I) and the full term. Spring term consists of Winter Interim (a term between the end of the fall term and the beginning of the full spring term), one 10-week session (referred to as Spring I) and the full term. The summer term consists of Interim session, two five-week summer sessions and one 10-week summer session. The summer term begins in mid-May and ends in August. The Interim session is the first three weeks of the summer term. The University's current academic calendar can be viewed at registrar.ua.edu/academiccalendar.

Credit for courses completed is awarded in semester credit hours. The number of semester credit hours awarded for a course may vary from one academic department to another depending on class hours, contact hours, outside-the-classroom work, practical or experimental work and laboratory work.

Course Hour Load in the Fall and Spring Terms

During the fall and spring semesters, the normal credit hour load for a full-time undergraduate student who is not on scholastic probation is 12-18 credit hours each semester. A student who has earned at least 12 credit hours at The University of Alabama and has maintained a GPA of "B" (3.0 GPA) or higher for all work attempted at The University of Alabama may enroll for more than 18 hours. The maximum load for which a student may enroll in one semester is 21 hours; however, an academic division may impose additional restrictions on class hour loads. The following policies also govern the class hour load during the fall and spring semesters:

- A senior who is on academic warning may enroll for a maximum of 18 credit hours during the semester in which he or she will complete degree requirements.
- A senior who is not on academic warning may enroll for a maximum of 21 credit hours during the semester in which he or she will complete degree requirements.
- The maximum load for which an entering freshman or transfer student may register during the first term at The University of Alabama is 18 hours.
- Student may not register for more than 4 credit hours during the Winter Interim session of the spring semester.

Course Hour Load in the Summer Term

During the summer term, the normal class hour load for undergraduate students is six credit hours for one five-week session or 12 credit hours for the summer term. Undergraduate students may enroll for a maximum of seven credit hours in each of the two summer sessions that make up the summer term. Student may not register for more than 4 credit hours during the summer Interim session. The total load in a summer term may not exceed 17 credit hours, including Interim session and 14 credit hours, including both courses that last for one summer session (five-week courses) and courses that run throughout the summer term (10-week courses). Full-time enrollment for the summer term is 12 hours.
Students are expected to attend all classes for which they are registered.

Complete Class Work

Absence from Class and Failure to

Student Expectations

UA System Cooperative Exchange Program

The University of Alabama System has a Cooperative Exchange Program that allows a student at any of the system's campuses (Birmingham, Huntsville, or Tuscaloosa) to enroll in one course at one of the other campuses. The following conditions govern this cooperative exchange program:

1. The student must be currently registered as a full-time, undergraduate- or graduate-level, degree-seeking student at the home campus.
2. The course desired must not be offered at the student's home campus.
3. Visiting students are limited to one undergraduate or graduate course per term at the host campus.
4. The student must have an overall GPA of "C" as an undergraduate or "B" as a graduate student.
5. The student's request must be approved by the registrar of the home campus and by the dean and/or advisor, if required.
6. Permission for the student to enroll in a course at the host campus is dependent upon availability of space for that course requested by the visiting student (availability is determined at the close of regular registration).
7. The visiting student is not entitled to participate in the student activities of the host campus (sports functions, student concerts, etc.)
8. The visiting student follows all academic policies of the host campus.
9. It is the responsibility of the host campus to forward to the home campus the course description, semester hours of credit, and the final grade awarded to the visiting student. In cases where the campus grading systems are not compatible, it is the responsibility of the host campus to award a grade that is compatible with the home campus grading system.
10. All expenses associated with registration, withdrawal, and drop/add are paid by the student at the home campus. There should be no transfer of funds to the host campus.
11. To participate in this program, any student enrolled at the home campus with less than full-time hours requires approval by the vice president for academic affairs at the home campus.

Any exceptions to the above conditions governing this agreement must be approved by the vice president for academic affairs at the home campus. Any student interested in participating in the Cooperative Exchange Program should contact the Office of the University Registrar for information and exchange program registration.

Code of Academic Conduct

Academic Honor Code

All students in attendance at The University of Alabama are expected to be honorable and observe standards of conduct appropriate to a community of scholars. Read more. (p. 895)

Records Policy for Students with Uncleared Financial Obligations

A student who is withdrawn from the University because of returned checks may not be reinstated for the current term. Read more. (p. 896)

Student Responsibility

Thorough knowledge of the academic regulations and policies of the University and its academic divisions is essential for all students. Read more. (p. 896)

Absence from Class and Failure to Complete Class Work

Students are expected to attend all classes for which they are registered. Class attendance is regarded as an academic matter, and the use of attendance records in grading (or for other purposes) is left to the discretion of the faculty member responsible for the course. This will be explained in the course attendance policy written and distributed by the faculty member. The faculty member is responsible for handling any excuses for absences from his or her class. A student-athlete should visit the Center for Student Athletic Services and read the Student-Athlete Handbook.

Code of Academic Conduct

Academic Honor Code

All students in attendance at The University of Alabama are expected to be honorable and observe standards of conduct appropriate to a community of scholars. The University of Alabama expects from its students a higher standard of conduct than the minimum required to avoid discipline. At the beginning of each semester and on tests and projects, at the discretion of the course instructor, each student will be expected to sign an Honor Pledge.

The Academic Honor Pledge reads as follows: I promise or affirm that I will not at any time be involved with cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at The University of Alabama. I have read the Academic Honor Code, which explains disciplinary procedures that will result from the aforementioned. I understand that violation of this code will result in penalties as severe as indefinite suspension from the University.

Academic Misconduct

Academic misconduct includes all acts of dishonesty in any academic or related matter and any knowing or intentional help, attempt to help, or conspiracy to help another student commit an act of academic dishonesty. Academic dishonesty includes, but is not limited to, the following acts, when performed in any type of academic or academically related matter, exercise, or activity:

- **Cheating**: Using or attempting to use unauthorized materials, information, study aids, or computer-related information.
- **Plagiarism**: Representing the words, data, works, ideas, computer programs or output, or anything not generated in an authorized fashion, as one's own.
• **Fabrication**: Presenting as genuine, any invented or falsified citation or material.

• **Misrepresentation**: Falsifying, altering, or misstating the contents of documents or other materials related to academic matters, including schedules, prerequisites, and transcripts.

Except in divisions that have an alternate academic misconduct policy that has been approved by the provost/executive vice president for academic affairs, academic misconduct cases shall be resolved by the academic misconduct monitor (appointed by the academic dean) or the academic dean of the division in which the alleged action took place. Appeals from the monitor's decisions may be made to the academic dean; appeals from the academic dean's decisions may be made to the Office for Academic Affairs.

Penalties for academic misconduct can range from a reprimand to a penalty as severe as suspension for a definite time or even indefinite suspension. Indefinite suspension normally requires a minimum of one semester, after which students may appeal for reinstatement. Academic deans have the authority to impose the full range of penalties. Divisional academic misconduct monitors may impose penalties only after receiving a voluntary written confession unless otherwise designated by the dean. Academic misconduct monitors are authorized to impose penalties up to, but not including, suspension. All persons who admit to or are found guilty of an academic offense for which a penalty less than an indefinite suspension is imposed will receive a penalty of indefinite suspension if they admit to or are found guilty of another offense of academic misconduct. In all cases that involve suspension as a penalty, the Office of the University Registrar will be notified immediately of the suspension and a hold will be placed on the student's record to prevent further enrollment.

A penalty of indefinite suspension is mandated for a finding of guilt on all second offenses. All second offense accusations are referred directly to the academic dean of the College for resolution. "Second offense accusations" assume resolution of first offenses (i.e., a finding of guilt) and that the student has been afforded the opportunity to learn from the first offense. Multiple misconduct accusations, where the initial accusations have not been resolved, may result in a penalty more severe than is typical in first offenses, including indefinite suspension. For second-offense cases that are in progress at the beginning of a semester, a student will be allowed to enroll and continue through completion of the semester even if the outcome of the accusation is suspension.

If an academic misconduct case is underway during a student's final semester, the awarding of the degree may be dependent upon the resolution of the case.

The complete Academic Integrity Policy may be found online at studenthandbook.ua.edu/conduct.html.

**Other Students**

Students whose financial obligations to the University are not the result of returned checks will not be withdrawn, but they will be subject to the following policies:

- Grades will be assigned by faculty members and will be entered in the student's permanent record.
- Transcripts will not be released until financial obligations to the University are cleared.
- A student's enrollment will not be confirmed until the financial obligations have been resolved.
- When all financial obligations are resolved, the student is again eligible to receive transcripts.

**Student Responsibility**

Thorough knowledge of the academic regulations and policies of the University and its academic divisions is essential for all students. Each student is expected to become familiar with The University of Alabama undergraduate catalog and to consult with the academic advisors provided by the student’s division.

Each student is responsible for selecting and registering for the courses that

1. are needed to maintain reasonable progress toward the desired degree,
2. will satisfy all requirements for the desired degree by the time the student expects to graduate, and
3. conform to University regulations.

Students are expected to pursue successful completion of the courses for which they register.

Students are also responsible for the following:

- The student must maintain a current mailing address and a local residence address on file. Students may make address and phone number updates in myBama.
- The student living on campus (Greek house or residence hall) must complete the Missing Student Contact Information in myBama.
- The student must maintain his or her UA Alerts via the Student Tab in myBama.
- The student must respond promptly to all communications received from The University of Alabama.

Most importantly, the student is responsible for developing and maintaining an academic plan and monitoring his or her academic progress via DegreeWorks, a degree audit tool.

**Administration**

**The Honorable Kay Ivey**
- Governor of Alabama
- Ex Officio President of the Board of Trustees

**Ed Richardson**
- Interim Superintendent, Alabama State Board of Education
- Ex Officio Member of the Board of Trustees
Trustees, by Congressional District

First District
- Harris V. Morrissette, Saraland
- Marietta M. Urquhart, Mobile

Second District
- Joseph C. Espy III, Montgomery
- W. Davis Malone III, Dothan

Third District
- Kenneth L. Vandervoort, M.D., Anniston
- James W. Wilson III, Montgomery

Fourth District
- Finis E. St. John IV, Cullman
- Scott M. Phelps, Tuscaloosa

Fifth District
- Ronald W. Gray, Huntsville; President Pro Tempore of the Board
- William Britt Sexton, Decatur

Sixth District
- Vanessa Leonard, Rockford
- W. Stancil "Stan" Starnes, Birmingham

Seventh District
- Karen P. Brooks, Tuscaloosa
- Judge John H. England Jr., Tuscaloosa
- Barbara Humphrey, Birmingham

Trustees Emeriti
- Frank H. Bromberg Jr., Birmingham
- Paul W. Bryant Jr., Tuscaloosa
- Angus R. Cooper II, Mobile
- Oliver H. Delchamps Jr., Mobile
- Jack Edwards, Mobile
- Joseph L. Fine, Montgomery
- Sandral Hullett, MD, Eutaw
- Andria Scott Hurst, Birmingham
- John D. Johns, Birmingham
- Peter L. Lowe, Huntsville
- John J. McMahon Jr., Anniston
- John Russell Thomas, Alexander City
- John C. Higginbotham, Interim Vice President for Research and Economic Development
- Samory T. Pruitt, Vice President for Community Affairs
- Linda Bonnin, Vice President for Strategic Communications
- David Grady, Vice President for Student Life
- Bob Pierce, Vice President for Advancement

Academic Divisions of the University

College of Arts and Sciences (1910)
- Robert F. Olin, Dean

Culverhouse College of Business (1919)
- Kay M. Palan, Dean

College of Communication and Information Sciences (1973)
- Mark D. Nelson, Dean

College of Community Health Sciences (1971)
- Richard H. Streiffer, Dean

College of Continuing Studies (1919)
- Craig S. Edelbrock, Dean

College of Education (1909)
- Peter S. Hlebowitsh, Dean

College of Engineering (1909)
- Charles L. Karr, Dean

Graduate School (1924)
- Susan Carvalho, Dean

Honors College (2003)
- Shane Sharpe, Dean

College of Human Environmental Sciences (1931)
- Milla Boschung, Dean

School of Law (1872)
- Mark E. Brandon, Dean

Capstone College of Nursing (1976)
- Suzanne Prevost, Dean

School of Social Work (1965)
- Vikki Vandiver, Dean

Admissions

The admission process is accomplished by completing the appropriate application for admission and furnishing the required credentials. You may apply online at apply.ua.edu. For questions, please contact The University of Alabama, Office of Undergraduate Admissions via email admissions@ua.edu; call 1-800-933-BAMA or 205-348-5666; write to The University of Alabama, Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; or visit the website at gobama.ua.edu.

More specific requirements for freshman, undergraduate transfer, transient, special or international student admission appear in the sections that follow. Some University of Alabama academic divisions may have different policies or requirements regarding admission; see the appropriate division’s section of this catalog for details.
General Requirements

The University of Alabama employs a competitive freshman admission process that includes reviewing and evaluating each application on an individual basis for an applicant’s abilities as a scholar. Decisions about the potential for a student’s academic success are based on ACT/SAT performance, high-school grade point average and high-school course schedule. A writing score is not required but can be reviewed if a student does not meet regular admissions standards as set forth by the ACT/SAT and GPA requirements. Applicants for freshman admission must submit official copies of their high school transcripts. Transfer applicants must submit official transcripts of all college-level work attempted. Currently, there is a $40 nonrefundable application fee for freshman and transfer students. If admission is denied, the Office of Undergraduate Admissions may suggest alternative ways to meet admission criteria at a later time.

Applications for freshman admission are accepted as early as one year prior to the anticipated date of enrollment. Applications for transfer admission are accepted as early as two years prior to anticipated date of enrollment. After an evaluation of the applicant’s credentials, admission is granted into various categories, depending on the strength of the applicant’s academic background. Once admitted, a student may enroll in courses for their admitted term and must submit a final transcript. For this reason, prospective students should ensure that their application credentials are submitted to the Office of Undergraduate Admissions as early as possible.

An Immunization Form, to include proof of current measles (MMR) and meningitis vaccinations and a negative TB skin test, must be completed by a licensed health care professional and submitted prior to enrollment for classes. The immunization form can be downloaded from shc.ua.edu/immunizations/.

More specific requirements for freshman, undergraduate transfer, transient, special or international student admission appear in the sections that follow. Some University of Alabama academic divisions may have different policies or requirements regarding admission; see the appropriate division’s section of this catalog for details.

Home-Schooled Students

The University of Alabama welcomes applications from students who are schooled in the home. Home-schooled applicants should meet the following requirements for admission:

1. Home-schooled applicants should meet the ACT/SAT requirement, as well as the grade point average (GPA) requirement and the college preparatory curriculum minimum unit requirements, if they present certified transcripts at the completion of their programs. A writing score is not required but can be reviewed if a student does not meet regular admissions standards as set forth by the ACT/SAT and GPA requirements. Refer to the “Freshman Admissions” tab and review Preparation for College-level Work and Minimum Requirements for Admission.

2. Students who do not present certified transcripts must take the GED and meet the admission requirements as outlined in The University of Alabama GED Admission Policy. See Non-graduates of High School (p. 899) section of Special Programs.

Transfers within the University

Procedures governing transfers between academic divisions of the University are administered by the Office of the University Registrar. For further information, please refer to the Transfers Within the University (p. 633) section of this catalog.

Freshman Admission

Freshman Orientation and Registration

An orientation/registration program (Bama Bound) is provided for all new freshman students to assist with the transition to college. Information about orientation and registration is sent to admitted students.

For all new undergraduate students, initial math placement will be based on ACT or SAT math score or previous college mathematics credit. If a student does not have one of these or wishes to try to improve his or her placement, the student may take the online math assessment. Foreign language placement is determined by several factors. These factors include the following: the number of high-school units completed, language placement examination scores; or, for those with native or heritage competency, faculty evaluation. Students with more than two high school units of French, German, Spanish, or Latin should take a placement examination by logging in to their mybama account under Admissions/Scholarships tab, in the box titled Admission Requirements, look for “Foreign Language assessment.” All assessments should be completed one week prior to Bama Bound.

Each orientation session gives students the opportunity to learn about the University, as well as academic programs and services offered to students. Students also enroll in classes for their first term at the University. Several orientation sessions are provided each year. For more information, visit orientation.ua.edu.

Preparation for College-Level Work

The University of Alabama Core Curriculum, required of all graduates, provides the foundation of every undergraduate degree program at the University. In addition to providing a solid understanding of the subjects covered, the core curriculum acquaints students with the ways knowledge is created.

The core curriculum includes academic courses in writing, humanities, fine arts, social sciences, natural sciences (including laboratory experience), and mathematics; it also requires knowledge of a language other than English. To prepare for the core curriculum, applicants are encouraged to take maximum advantage of their high school experiences by accumulating as many academic units as is practical.

Minimum Requirements for Admission

In terms of educational preparation, the college preparatory curriculum minimum unit requirements for regular admissions are:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 units, beginning with algebra I, algebra II, and one unit of either geometry, trigonometry or calculus</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 units</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3 units, including 2 units with a laboratory</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>1 unit</td>
</tr>
<tr>
<td>Other academic courses</td>
<td>5 units (courses recommended are in fine arts or computer literacy, with additional courses in mathematics, science and foreign language)</td>
</tr>
</tbody>
</table>

The University of Alabama employs a competitive admission process that includes reviewing and evaluating each application on an individual basis for an applicant’s abilities as a student and a scholar. Decisions about the potential for a student’s academic success are based on ACT and/or SAT performance, high school GPA and high school course schedule. A writing score is not required but can be reviewed if a student does not
meet regular admissions standards as set forth by the ACT/SAT and GPA requirements.

The course/unit requirement also applies to transfer students who have completed fewer than 24 semester hours or 36 quarter hours of college-level courses.

Special Programs

Early Admission

Students who have exceptionally high grades (B+ or higher grade point average) and at least a 28 ACT or a 1310 SAT (Evidence-Based Reading and Writing and Math) and who have strong endorsements from their high school principal, guidance counselor, and parents or legal guardians may be considered for admission without completing their senior year of high school.

Concurrent Enrollment

Students who meet the necessary requirements may attend The University of Alabama while still in high school. Students in area high schools may enroll as concurrent high school students/University freshmen. Typical students admitted to this program have a 'B+' GPA, at least a 26 ACT or 1240 SAT (Evidence-Based Reading and Writing and Math) and the recommendation of their high school principal or guidance counselor and parents or legal guardians. Students take coursework in areas for which they have adequate preparation and the approval of their principal and/or counselor.

Dual Enrollment/Dual Credit Agreement

The University participates in dual enrollment/dual credit programs with local boards of secondary education. Through these programs, certain high school students are allowed to enroll in college-level courses in order to earn credits that apply to both undergraduate degrees and high school diplomas. Students are eligible under the following conditions:

1. The student must be in grade 11 or 12 or have an exception granted by UA based on the written recommendation of the student’s principal and the local superintendent of education and in accordance with Alabama administrative code regarding gifted and talented students.
2. The student must have a ‘B+’ average, as defined by local board policy, in completed high school courses.
3. The student must meet the entrance requirements established by UA.

Students who are currently in high school and have concurrent college credit, or dual enrollment or concurrent college credit, are not considered transfer students. Students must have one official transcript sent to the Office of the University Registrar directly from each college or university attended. 

Non-graduates of High School

Admission may be granted to non-graduates of high school who are 18 years of age and have been out of high school for a minimum of one year. Applicants must score a minimum of 510 on the old General Educational Development (GED) Test or a minimum of 150 on the current GED test and submit acceptable ACT or SAT scores. Applicants 23 years of age and older are required to score a minimum 510 on the old GED test or a minimum of 150 on the current GED test. In addition, they may be required to submit ACT or SAT scores for advising purposes.

Transfer Admission

Applicants who have attended other colleges or universities are considered transfer students, regardless of the period of enrollment or amount of credit earned. Students who are currently in high school and have dual enrollment or concurrent college credit are not considered transfer students. Students seeking to transfer to The University of Alabama must meet the following requirements:

- Students must have one official transcript sent directly to the Office of the University Registrar from each college or university previously attended. Faxed and/or emailed transcripts are not considered official transcripts.
- Students who have completed fewer than 24 semester GPA hours (or 36 quarter hours) of collegiate work must also submit official copies of their ACT or SAT scores and final high-school transcript to the Office of Undergraduate Admissions. Documents must be sent directly from the testing agency and/or high school to be considered official.
- An average cumulative GPA of 2.0 or higher on a 4.0 scale for all college-level work attempted is required for admission. UA accepts transfer work from postsecondary institutions that are fully accredited by regional accrediting agencies. College-level work does not include vocational, technical, or remedial/developmental course work. Some divisions may set slightly higher GPA and/or hour requirements in order to register for upper division courses. Students who are unable to return to the last collegiate institution they attended will be considered on a case-by-case basis. Additional documentation may be requested.

Transferring from Two-year Colleges in Alabama

Students transferring from two-year colleges in the Alabama Community College System may contract with UA under STARS (Statewide Articulation Reporting System). The STARS program will guarantee the transfer and applicability of the two-year college credit under the following restrictions:

- This agreement will be honored for a period of four years from the date of the agreement. The student will be required to satisfy the requirements for graduation as described in the undergraduate catalog in effect at the time of execution of this agreement. However, UA may change such requirements if the student is given a reasonable opportunity to comply with the changed requirements. The student may choose to comply with the requirements in effect at the time of transfer.
- Under this agreement, the student must be officially admitted and enrolled at UA immediately following his or her tenure at the two-year college at which the contract was initiated. Should the student enroll in another post-secondary institution during the interim, this agreement is void.

This agreement is subject to termination should changes in UA requirements be initiated by any agency outside University control. Such agencies include, but are not limited to, the State Department of Education, ACHE, SACS, NCATE, CLN, AACSB, ABET, and other accreditation agencies.

Conversion of Credits

The University of Alabama is on the semester system. Credits earned as quarter hours will be evaluated as semester hours. One quarter hour is equal to two-thirds of one semester hour; for example, a five-quarter-
hours course equals three and one-third semester hours. However, when a student is seeking to transfer credit that will be applied toward degree requirements, final authority for evaluating that credit rests with the academic division, which may use a different formula.

Transfer Student Orientation and Registration

Participation in an orientation session (Bama Bound) is required of each newly admitted transfer student. Considerable assistance is available at each session, and the groups are kept small to encourage individual attention. For more information, visit orientation.ua.edu.

Distance Learning students are not required to attend orientation/registration. Distance Learning students should contact Academic Outreach at uadistance@ua.edu.

Admission of Special Category Students

Adult

Applicants who graduated from high school at least four years prior to the date of anticipated enrollment may be admitted to the University without the ACT or SAT, provided their high school GPA is 2.5 or higher on a 4.0 scale. However, for placement purposes, the ACT or SAT may be required of all students who are enrolled.

Auditor

Applicants who wish to attend credit courses as auditors must follow standard admission procedures. They must be registered for the courses, must pay all required fees, are expected to attend all class meetings and must conform to all requirements of the instructor of the course.

In certain cases, admission as an auditor may be granted without satisfaction of normal admission requirements; however, the University reserves the right to establish appropriate standards for such enrollment. Auditors may not receive credit applicable to the requirements for degrees.

Dean's Admission

The deans of the University may, upon appeal, waive or modify conditions of admission for individual freshman and transfer applicants.

Crimson EDGE (Education Guarantees Excellence)

This two-semester program helps students manage the transition to a university academic environment. Students in this category are not on probation but are limited to 15 credit hours during their first semester and must enroll in an academic support class.

Irregular Postgraduate

Applicants with baccalaureate or advanced degrees may be admitted on the basis of the appropriate degree. Standard admission procedures are followed.

Special Admissions

Undergraduate applicants who are denied admission to the University may appeal the admission decision if they have academic achievements, personal achievements, or special circumstances that were not considered when the admissions decision was made. Applicants must contact the Office of the Assistant Vice President for Enrollment Management for additional information.

Special Student

Special student enrollment is a non-degree status. Special students may apply for admission as degree-seeking students by requesting a change of status and by meeting regular admission requirements. Students who have never enrolled in college are generally expected to have been out of high school for two or more years before enrollment at the University as special students. Students who are currently on academic probation or under academic suspension imposed by another college and who have not been enrolled in school for two years may be admitted with special permission. Enrollment in specific courses will be on a space-available basis. If a course has prerequisites, permission must be granted by the instructor before enrollment in the course. To continue as a special student beyond one academic year of continuous enrollment, after a break in enrollment, or beyond 12 semester hours of earned credit, permission must be granted by the dean of the school or college in which the special student is enrolled.

Transient Student

Admission as a transient (visiting) student may be granted for any term. Standard application procedures must be followed. Approval may be given on the basis of an official statement of good standing from the last institution attended. Transient status may be granted for only one term.

*For registration purposes; in order to avoid registration delay, please send documentation that the prerequisite is completed if required for the course(s) to be taken at UA.

Admission of International Students

Incoming Freshmen Graduating from Schools Outside the U.S.

The University of Alabama employs a competitive admission process that includes reviewing and evaluating each application on an individual basis for an applicant’s abilities as a student and a scholar.

The undergraduate international admissions office will review the students’ transcripts within the context of the school, curriculum, and country. Successful candidates to The University of Alabama will have completed a college preparatory curriculum including:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Language: 4 units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mathematics: 3 units, including algebra I, algebra II, and one unit of either geometry, trigonometry or calculus</td>
</tr>
<tr>
<td></td>
<td>Social Studies: 4 units</td>
</tr>
<tr>
<td></td>
<td>Natural Science: 3 units, including 2 units with a laboratory</td>
</tr>
<tr>
<td></td>
<td>Other academic courses: 5 units (courses recommended are in fine arts or computer literacy, with additional courses in mathematics, science and foreign language)</td>
</tr>
</tbody>
</table>

To prepare for admission to UA, applicants are encouraged to take maximum advantage of their high school experiences by accumulating as many academic units as is practical.

GPA will be calculated on ALL coursework, not just core subjects. The University considers applicants with a cumulative GPA of 2.75 on a 4.0 scale for admission.
For academic admission, students must meet the English proficiency requirement. For detailed policy requirements, please visit: http://gobama.ua.edu/international/english-language-proficiency/

Students who meet the academic and financial qualifications, but do not meet the English proficiency requirement may apply for conditional admission. Conditionally admitted students will begin their studies in the English Language Institute and then enter directly into their academic coursework once they have satisfied English proficiency. For more information about conditional admission, visit: http://gobama.ua.edu/international/conditional-admission/

SAT/ACT are not required for admission for students graduating from overseas schools, but will be required for applicants who would like to be considered for scholarship.

Students requiring F-1 and J-1 visas must also send documentation in order to secure an I-20 / DS-2010.

Incoming International Freshmen Graduating from a U.S. High School

International freshmen graduating from U.S. high schools must meet the same admissions criteria as domestic applicants. Please review the admission requirements here.

In addition to meeting the admission requirements, international students graduating from U.S. schools seeking an F-1 or J-1 visa must submit their I-20 / DS-2019 request form and proof of finances before a Form I-20/DS-2019 can be issued. For more information, please read the Securing an I-20 / DS-2019 page.

International Transfer Students

Transfer in U.S.:
To transfer to UA from a U.S. college or university, the student will need the current school to submit an official copy of the college transcripts either electronically or via post. If the student has completed 24 or more credits (about 1 year of college courses), then the student will apply as a transfer student.

To be admitted to UA as a transfer student, a student must have earned an overall GPA of “C” (2.00 on a 4.00 scale) or higher on all university-level work attempted. GPA will be calculated on ALL coursework, not just core subjects.

If the student has completed fewer than 24 credit hours at the university level, then the student will need to apply as a transfer student with fewer than 24 hours. In this instance, we will also need to see copies of the student’s high school diploma and transcripts. Applicants with fewer than 24 earned credit hours of university-level coursework will also need to meet the freshman admission requirements as listed above.

Please note that technical, remedial, vocational, and ESL classes are not accepted.

Transfer outside U.S.:
Any applicant with post-secondary study completed outside the U.S. is required to submit those credentials for a course-by-course evaluation to an accredited evaluation agency.

UA will accept evaluations from any NACES member agency, http://www.naces.org/members.htm.

Applicants that wish to receive transfer credit from an overseas post-secondary institution must provide course descriptions or syllabi for EACH subject considered for transfer. These descriptions should include a list of required readings, the number of class hours required for each course, and the length of the academic term(s) when enrolled. Since the academic departments at UA determine whether credits earned abroad will be accepted as equivalent to courses offered at UA, credit is awarded on a subject-by-subject basis.

Please note that admissions decisions will be made by the international admissions team, but credit transfer decisions are made by the department. Questions regarding credit transfer should be addressed to the academic department.

In addition to meeting the admission requirements, international students requiring an F-1 or J-1 visa who are transferring from another U.S. institution should have their SEVIS record transferred to UA. Contact Capstone International Services for questions about this process.

Students transferring from outside of the U.S. requiring F-1 and J-1 visas must also send documentation in order to secure an I-20 / DS-2010.

Transient Students

International transient students are international students who are currently studying at another U.S. university, and would like to take classes at UA as a visitor. Admission as a transient (visiting) student may be granted for any term. Transient status may be granted for only one term. Students must apply online and adhere to all international application deadlines. As part of the application, all international students must submit a copy of their passport and any current visa.

Approval may be given on the basis of an official statement of good standing from the current institution's office of the registrar, OR an official copy of a transcript showing good standing progression of academic courses. International students must also have a letter of transfer credit approval from the current institution’s immigration advisor.

Please note, all application materials must be received by the application deadline for the term applied for. https://gobama.ua.edu/international/application-deadlines/

International Student Orientation and Registration

International students are required to attend an additional International Student Orientation and Check-In by the Capstone International Services office. In this check-in and orientation, the International Services office will make copies of documents for their file. Please bring a copy of the following documents:

- Passport
- F-1 I-20 or J-1 DS-2019
- I-94 Arrival/Departure Record (if a student has an electronic I-94 card and not a paper card, please print a copy of the current card from https://i94.cbp.dhs.gov/I94/#/recent-search)
- Any other immigration documents
- If there is a spouse or children, also bring their documents for check-in

For more information about International Check-In and Orientation dates, please visit: http://is.ua.edu/future-new-students/visas-arrival-orientation/check-in-orientation/

In addition to International student orientation, Freshman and Transfer international students should register and attend the last available dates of Bama Bound new student orientation. The last dates of Bama Bound
are within the time frame that international students are allowed to enter the U.S. on their student visas. Each orientation session gives students the opportunity to learn about the University, as well as academic programs and services offered to students. Students also enroll in classes for their first term at the University. Several orientation sessions are provided each year. For more information, visit orientation.ua.edu.

Students who are admitted conditionally to the University will NOT register and attend Bama Bound orientation until they have completed their English language courses in the English Language Institute.

**English Placement for Non-native Speakers of English**

To ensure that new international undergraduate students have the greatest chance of success at UA, those students with low sub-scores on the TOEFL iBT or IELTS will be required to enroll in an English language course in their first semester of study.

Who is Required to Enroll in English Courses?

- If a student's TOEFL iBT Writing sub-score is lower than 18 or IELTS writing score is lower than 6.0, the student must enroll in the non-credit Academic Writing course through the English Language Institute (ELI) in addition to other undergraduate courses. (Enrollment in the Academic Writing course will count toward overall minimum full-time enrollment requirement.)
- If a student's TOEFL iBT Speaking score is lower than 18 or IELTS speaking score is lower than 6.0, the student must enroll in a non-credit Spoken English course through the English Language Institute (ELI) in addition to other undergraduate courses. (Enrollment in the Spoken English course will count toward overall minimum full-time enrollment requirement.)

Exemptions from the English Course Requirement

- Students are exempt from the Academic Writing course requirement if their Writing sub-scores are 18 or higher on the TOEFL iBT or 6.0 or higher on the IELTS on the writing/speaking sections or if they have completed ELI Reading/Writing 6.
- Students are exempt from the Spoken English course requirement if their Speaking sub-scores are 18 or higher on the TOEFL iBT or 6.0 or higher on the IELTS on the writing/speaking sections or if they have completed ELI Speaking/Listening 6.
- Students are exempt from both the Academic Writing and Spoken English course requirements if they have an ELI Proficiency Certificate or if they were admitted to UA with an English proficiency waiver.

Students who are required to enroll in either Academic Writing or Spoken English courses must complete this coursework in their first year of attendance and must complete all coursework before enrolling in EN 120/EN 121.

Students will be notified during International Student Check-in and Orientation if they must enroll in either Academic Writing or Spoken English and will be directed to the English Language Institute (ELI) for placement and registration on the day of International Student Check-in and Orientation.

**Academic Second Opportunity**

A student who has been separated from The University of Alabama for at least three academic years may petition the dean of his or her college to apply for readmission through Academic Second Opportunity. The petition must be received in the dean's office prior to the last day of class for the semester in which the student returns to the University. If the petition is approved, the student will be readmitted regardless of previous scholastic performance, unless separation from the University resulted from academic misconduct. In cases of academic misconduct, readmission will be reviewed by the academic dean (or his or her designee) for the school or college in which readmission is sought.

If the application for Academic Second Opportunity is accepted, all previous academic work remains on the student’s permanent record, but the grades for previous work are not used in computing the GPA. Grades of "C" or higher earned during previous college attendance are computed as “passing hours” (P) and may be applied to major program, distribution, and graduation requirements. Grades of "D" earned during previous college attendance may not be applied to major program, distribution, or graduation requirements. These grade modifications are only applicable to coursework completed during an academic term at The University of Alabama. Transfer and placement credits are not eligible for Academic Second Opportunity.

The student then pursues his or her academic program with no University of Alabama GPA, and thereafter is subject to the conditions of warning, probation, and dismissal that govern all students. Once invoked, Academic Second Opportunity cannot be revoked and it may be awarded only once and may not be awarded retroactively. Students who are awarded Academic Second Opportunity are excluded from candidacy for the Latin honors designations of cum laude, magna cum laude, and summa cum laude. These honors may also be referred to as University Honors.

A student who has a degree from another institution but was previously a student at UA or who has a degree from UA is not eligible for consideration.

**High School Services**

The Office of Undergraduate Admissions assists high school principals, counselors, and teachers in the planning and development of enrichment programs in a number of high school subjects, including art, forensics, foreign languages, health and physical education, journalism, music, and the sciences. Workshops, clinics, institutes, skills demonstrations, conventions, and conferences, held both regionally and on the University campus, are developed cooperatively by school leaders and representatives of The University of Alabama faculty and the Office of Undergraduate Admissions.

**Academic Common Market of the Southern Regional Education Board (SREB)**

The Academic Common Market (ACM) is a tuition scholarship program that enables selected students to pursue out-of-state college degrees at discounted tuition rates through agreements among the states, colleges, and universities. The ACM is designed for qualified first-time freshmen, first-time graduate students, and first-time transfer students. The purpose of the Academic Common Market is for states to share specified academic degree programs located at Southern public colleges and universities. This is accomplished through an exchange of students across borders at in-state tuition rates. The Southern Regional Education Board (SREB) coordinates the ACM, and through this program, students wishing to study in majors not available in their home states may be able to attend out-of-state universities that agree to pay the out-of-
The University of Alabama 2018-2019 903

state portion of their tuition. Approximately 30 of UA’s degree programs participate in the ACM.

For more information regarding program eligibility, participation qualifications, and the ACM application process, please visit gobama.ua.edu/academic-common-market.

Military Leave

A student who has been admitted to or enrolled at The University of Alabama as an undergraduate student may ask for a military leave to fulfill a U.S. military obligation. The student should notify the Office of the University Registrar of a call to military service, provide documentation, and notify this same office of intent to return to the University. If there is no dishonorable or bad conduct discharge from the military, and the cumulative length of this absence and all previous absences from undergraduate study due to military service does not exceed five years, the student will be readmitted. This is in accordance with the readmission provisions in the Higher Education Opportunity Act of 2008 (Section 484C of the HEA) and implementing regulations in 34 CFR Section 668.18.

State Authorization

The University of Alabama seeks to deliver degree programs and course offerings in every state, working through the National Council for State Authorization Reciprocity Agreement (NC-SARA) where applicable, or directly with states to ensure that required approvals are secured. The state of Alabama is a member of NC-SARA and The University of Alabama is an approved NC-SARA institution. For more information about NC-SARA, please visit NC-SARA.

The University of Alabama offers degree programs and individual courses that may require approval for supervised field experiences outside of the state of Alabama. A supervised field experience is a student learning experience comprised primarily of the practical application of previously studied theories and skills, with the oversight of a supervisor, mentor, faculty member, or other qualified professional. Examples include clinical, practica, student teaching, or internships. Independent off-campus study by individual students not engaged in a supervised field experience is exempt. This requirement applies both to online programs and to main campus programs if the supervised field experience occurs outside of the state of Alabama. Prior to engaging in any supervised field experience outside of the state of Alabama, please refer to StateAuthorization.ua.edu for detailed requirements.

Additionally, The University of Alabama offers degree programs that may lead to professional licensure, and licensure requirements vary from one profession to another and from state to state. If you are interested in obtaining professional licensure, please check with the appropriate licensing body in the state where you intend to practice. Additional information can be found at ProfessionalLicensure.ua.edu.

Code of Student Conduct

The University of Alabama aspires to transmit knowledge, to develop its students, and to promote the quality of society. In seeking these goals, the University recognizes the significance of student rights. These rights include freedom of expression, autonomy, procedural protection, and the integrity of people and their property. By ensuring these individual rights, the University fosters an environment conducive to student success and well-being. The Code of Student Conduct fully respects student rights.

Of course, students have obligations as well as rights. As members of an academic community, they must observe rules that benefit their classmates and their University. Students must practice personal integrity. By so doing, they respect the dignity, rights, and property of others (both students and all members of the University community). The Code of Student Conduct thus creates an expectation of behavior that the University deems acceptable. By fulfilling these expectations, students can enjoy their own rights while also respecting their classmates’ rights and furthering the University's goals.

However, the University community, as any other, must have a system to deal with those instances when a member fails to adhere to the expectations of the community. The Code of Student Conduct describes the actions which fail to meet expectations, the process of determining when a failure has occurred, and the punishment to be imposed for such failure.

A copy of the Code of Student Conduct can be found here: www.sc.ua.edu/conduct.pdf

Located in 173 Burke East, the Office of Student Conduct promotes a safe and supportive University community by serving as a resource for students, faculty and staff who may be affected by others’ misconduct. In addition to the administration of the Code of Student Conduct, the office is an advocate for community standards and campus civility through educational programming, mediation and resolution of student disputes and conflicts of non-academic misconduct. For general information and assistance, contact The University of Alabama, Office of Student Conduct, Box 870295, Tuscaloosa, AL 35487-0295, or call (205) 348-8234.

In the event of any conflict, the Code of Student Conduct found at www.sc.ua.edu/conduct.pdf will govern.

Introduction

May 2018

The University of Alabama Fall 2018–Summer 2019 Academic Catalog was produced by the Office of the University Registrar in conjunction with the Office for Academic Affairs.

Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors, or errors made by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

Philosophy of an Undergraduate Education at The University of Alabama

The University of Alabama offers a comprehensive range of baccalaureate programs in the arts and humanities and in social, scientific, pre-professional, and professional fields for students of all ages. The aims of the baccalaureate degree are to develop skills required for each graduate to acquire, analyze, synthesize, evaluate, create, and apply interdisciplinary knowledge. Such skills include effective communication, recognizing and appreciating diversity, and ethical approaches to problem solving. This degree is designed to cultivate lifelong learning, critical thinking, and intellectual growth and also to provide a foundation for a healthy life and for active citizenship in a complex, diverse, and global society. The core curriculum is an essential component in achieving these aims, as it establishes a common foundation toward these goals.

Equal Opportunity in Education and Employment

UA complies with applicable laws prohibiting discrimination, harassment, and retaliation, including but not limited to Titles VI and VII of the
Civil Rights Act of 1964, the Age Discrimination in Employment Act, Executive Order 11246, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans’ Adjustment Assistance Act, as amended by the Jobs for Veterans Act of 2002 (VEVRAA), the Uniformed Services Employment and Reemployment Rights Act of 1994 (USERRA), the Age Discrimination Act of 1975, the Americans with Disabilities Act (ADA) of 1990, the ADA Amendments Act of 2008, and the Genetic Information Nondiscrimination Act of 2008. Consistent with those laws and UA’s Sexual Misconduct, Harassment and other policies, UA prohibits discrimination on the basis of genetic or family medical history information, race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, pregnancy, age, disability, protected veteran status, or any other legally protected basis in admission or access to, or treatment of employment in, its programs and services. These prohibitions against discrimination apply to recruitment, application, selection, hiring, appointment, transfer, demotion, promotion, tenure, job assignments, classification, compensation, benefits, leaves of absence, sick leave or any other leaves, job training and development, tuition assistance, participation in UA-sponsored educational, social, and recreational programs, discharge, layoff, and/or any other term, condition or privilege of employment. Inquiries or concerns regarding UA’s Title IX or gender-related compliance may be directed to UA’s Title IX Coordinator, Ms. Beth Howard, 107 Burke Hall West, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5496, gbhoward@ua.edu. All other inquiries and concerns related to discrimination, harassment, or retaliation, except those regarding Section 1557 of the Affordable Care Act, may be directed to Dr. Gwendolyn Hood, University Compliance Officer and Director of the Office of Equal Opportunity Programs, 107 Burke Hall West, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5855 (Voice), 205-348-5573 (TDD), ghood@aalan.ua.edu. This statement is part of the Equal Opportunity, Non-Discrimination, and Affirmative Action Policy Statement (https://www.ua.edu/about/policies/files/EEO%20Policy.pdf).

University of Alabama Bloodborne Pathogen Policy

The University of Alabama bloodborne pathogen policy, approved in February 1993, requires each administrative unit of the University to conduct a risk-appraisal survey during October and November of each year to identify employees and students at risk for occupational or student academic exposure to bloodborne pathogens. All units in which students or employees are at risk must then develop an exposure control plan. Employees and students at risk are required to receive the hepatitis B vaccination series, submit proof of immunity to the hepatitis B virus (or proof of vaccination), or sign a statement declining the vaccine. Employees and students who are at risk are also required to receive training about bloodborne pathogens. For further information about this policy, contact The University of Alabama, Office of Environmental Health and Safety at 205-348-5905.

Campus Security Report

Each year, The University of Alabama publishes the UA Annual Campus Security and Fire Safety Report. It contains crime and fire statistics for the three most recent calendar years. It also details UA security policies and procedures. The Campus Security Report is provided in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and is available online to view or print at police.ua.edu. The Alabama Department of Public Safety, a state agency, also provides an online listing of sex offenders currently registered with the state. This listing is available on the Alabama Department of Public Safety website at dps.alabama.gov. For information regarding the enrollment or employment of registered sex offenders at The University of Alabama, or to request a printed copy of the Campus Security Report, write The University of Alabama, University Police, Community Services Division, Attention: Clery Compliance Officer, Box 870180, Tuscaloosa, AL 35487-0180; or email ua.police@ua.edu.

Academic Calendar

The University’s current academic calendar is available online at registrar.ua.edu/academiccalendar.

Student Financial Aid

Financial aid is assistance made available to students to help pay for their college education. Intended to allow students a choice of colleges and to enable them to complete their programs of study, financial aid may consist of scholarships, grants, loans and/or jobs. The federal and state governments, educational institutions, businesses, civic clubs, and individuals sponsor various financial aid programs.

Student Financial Aid at The University of Alabama provides counseling and information to students and parents at all income levels. The office is located in 106 Student Services Center. For more information, call 205-348-6756 or visit financialaid.ua.edu.

Applying for Financial Aid

To determine the amount of financial aid for which a student is eligible, The University of Alabama uses the Free Application for Federal Student Aid (FAFSA). Students complete the FAFSA online at fafsa.gov. Information from the FAFSA will be forwarded to the University if the student designates UA as a recipient, using UA’s federal school code 001051. Financial aid is not automatically renewed from year to year. Students must apply each year for all types of aid. The U.S. Department of Education sends renewal information to prior-year applicants in November. Students are encouraged to apply as soon as possible after January 1. Processing can take two to three weeks, so it is important to begin early. Although The University of Alabama sets no deadline to apply for financial aid, there is a March 1 priority date to receive maximum consideration for all types of aid.

Satisfactory Academic Progress Requirement for Federal Financial Aid Recipients

All students at The University of Alabama who receive federal financial aid must make satisfactory progress toward completion of their degrees within a reasonable period of time. The University’s standing committee on financial aid has approved the following standards defining satisfactory progress in accordance with regulations issued by the U.S. Department of Education.

Undergraduate Students

An undergraduate student is considered to be making satisfactory progress if he or she:

- is admitted and enrolled as a degree-seeking student
- meets the minimum scholarship measures required for financial aid recipients
- maintains measurable progress toward the completion of the degree
• completes degree requirements within a reasonable length of time

Minimum Scholastic Requirements
In order to maintain the minimum scholastic requirements, the student must maintain the minimum grade point average (GPA) indicated below according to the number of credit hours earned (including transfer credit):

<table>
<thead>
<tr>
<th>Credit Hours Earned</th>
<th>Required UA GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30 hours</td>
<td>1.5</td>
</tr>
<tr>
<td>31-60 hours</td>
<td>1.7</td>
</tr>
<tr>
<td>61-90 hours</td>
<td>1.9</td>
</tr>
<tr>
<td>91 or more hours</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Measurable Progress Requirement
In order to maintain measurable progress toward the completion of their degrees, students must successfully complete 67 percent of all University of Alabama credit hours and transfer hours attempted. (Hours attempted include repeated courses, dropped courses, withdrawals, and incomplete courses.)

• Example A: If you attempted 32 credit hours and successfully completed 26 of those hours, dropped 3 hours and failed 3 hours, your completion rate would be as follows: 26 completed hours ÷ 32 attempted hours = 81.2 percent completion rate. You meet the measurable progress component of this requirement.

• Example B: If you attempted 32 credit hours and successfully completed only 20 of those hours, and either dropped, failed, repeated, received incompletes for, or withdrew from the other 12, your completion rate would be as follows: 20 completed hours ÷ 32 attempted hours = 62.5 percent completion rate. You do not meet the measurable progress component of this requirement and, therefore, are not eligible for financial aid.

Reasonable Length of Time Requirement
At The University of Alabama, a reasonable length of time for the completion of a degree program is generally defined as no more than 150 percent of the normal time required to complete a degree program. Coursework that transfers into a degree program will adjust the time frame accordingly.

• Example A: If your degree requires that you complete 120 credit hours, your reasonable length of time will be as follows: 120 credit hours x 150 percent = 180. You will be within your reasonable length of time during your first 180 hours of attempted coursework.

• Example B: If your degree requires that you complete 120 credit hours and you have transferred 54 credit hours, your reasonable length of time will be as follows: 120 credit hours – 54 transfer hours = 66 x 150 percent = 99. You will be within your reasonable length of time during your first 99 hours of coursework attempted at The University of Alabama.

A student who is working toward a degree level he or she has already completed or exceeded (i.e., second bachelor’s degree) will have his or her reasonable length of time established at no more than 67 percent of the normal length of the program minus any coursework that transfers into the program.

• Second bachelor’s degree example: If your new bachelor’s degree requires 120 credit hours and your dean counts 98 hours from your first degree toward your second degree, your reasonable length of time will be as follows: 120 credit hours – 98 previous hours = 22.

Student Rights and Responsibilities
Thorough knowledge of the academic regulations and policies of the University and its academic divisions is essential for all students. Each student is expected to become familiar with The University of Alabama undergraduate catalog and to consult with the academic advisors provided by the student’s division.

Each student is responsible for selecting and registering for the courses that:

1. are needed to maintain reasonable progress toward the desired degree,
2. will satisfy all requirements for the desired degree by the time the student expects to graduate and
3. conform to University regulations.

Students are expected to pursue successful completion of the courses for which they register.

Students are also responsible for the following:

• The student must maintain a current mailing address and a local residence address on file. Students may make address and phone number updates at myBama.

• The student living on campus (Greek house or residence hall) must complete the Missing Student Contact Information in myBama.

• The student must maintain his or her UA Alert via the Student Tab in myBama.

• The student must respond promptly to all communications received from The University of Alabama.

Most importantly, the student is responsible for developing and maintaining an academic plan and monitoring his or her academic progress via DegreeWorks, a degree audit tool.

Types of Financial Aid
Scholarships
University of Alabama scholarships can be reviewed online at scholarships.ua.edu or requested by contacting The University of Alabama, Scholarships, Box 870132, Tuscaloosa, AL 35487-0132; 205-348-5666 or 1-800-933-BAMA; email scholarships@ua.edu.

Grants
A grant is gift aid that does not have to be repaid. Only undergraduate students pursuing their first bachelor’s degrees are eligible for grants.

Five grants are available at The University of Alabama:

Federal Pell Grant
The Federal Pell Grant program is based on financial need. The amount of a Pell Grant varies depending on eligibility.

Federal Supplemental Educational Opportunity Grant (SEOG)
The Supplemental Educational Opportunity Grant is a federal program based on exceptional financial need and availability of funds. The amount of an SEOG award varies. To be considered, a student must be eligible for a Federal Pell Grant.
Student Loans

Student loan programs provide long-term, low-interest loans for students. Student loans must be repaid with interest.

Federal Perkins Loan

The Federal Perkins Loan is based on exceptional financial need, eligibility for the Federal Pell Grant and availability of funds. It has an annual interest rate of 5 percent. Repayment does not begin until nine months after graduation or when a student is no longer enrolled at least half-time. The maximum amount that can be borrowed by a student for each academic year is determined annually and is based on the availability of funds.

William D. Ford Federal Direct Loan Program (Direct Loans)

The University of Alabama participates in the Direct Student Loan program. This means the University receives loan funds directly from the U.S. Department of Education and disburses them to eligible students. Loans disbursed through this program no longer involve private lending institutions such as banks or credit unions. The types of loans disbursed through the program are as follows:

- Freshman $3,500
- Sophomore $4,500
- Junior/Senior $5,500

Federal Direct Subsidized Stafford Loan

The Federal Direct Subsidized Stafford Loan program is based on financial need; recipients must be enrolled at least half-time.

Federal Direct Subsidized Stafford Loans are awarded by the University. Repayment of Federal Direct Subsidized Stafford Loans does not begin until six months after graduation or when a student is no longer enrolled at least half-time.

Maximum annual Federal Direct Stafford Subsidized Loan awards (based on eligibility) are as follows:

- Dependent Students
  - Freshman $5,500
  - Sophomore $6,500
  - Junior/Senior $7,500

- Independent Students
  - Freshman $9,500
  - Sophomore $10,500
  - Junior/Senior $12,500

Federal Direct Unsubsidized Stafford Loan

The Federal Direct Unsubsidized Stafford Loan program is not based on financial need. Unlike the subsidized loan, interest on an unsubsidized loan begins accruing as soon as the loan funds are disbursed. Interest can be added to the principal or paid monthly or quarterly by the borrower. To be considered for the unsubsidized loan, students must apply for federal financial aid.

Maximum annual Federal Direct Unsubsidized Stafford Loan awards are as follows and include any amount received in a subsidized Federal Direct Stafford Loan:

A total maximum (including both subsidized and unsubsidized Federal Direct Stafford Loans) of $31,000 for dependent students or $57,500 for independent students may be borrowed for study toward the undergraduate degree.

Federal Direct Parent Loan for Undergraduate Students (PLUS)

The PLUS program is not based on financial need. The PLUS program is available to parents of dependent students. The interest rate is variable, adjusted annually. A parent can borrow the difference between the cost of attendance (defined by Student Financial Aid) and the amount of the student's estimated resources.

Repayment of principal and interest of PLUS loans begins within 60 days after the loan is disbursed or parents may request a deferment. PLUS loans are disbursed in two installments.

Federal Work-Study Program

The Federal Work-Study Program is a federally funded work program based on financial need and availability of funds. One component of the program is student participation in community service designed to improve the quality of life of a community's residents or to solve particular problems those residents experience.

Work-study students may work on or off campus for an average of 12 to 15 hours of service weekly. They are paid every two weeks for the hours worked.

A listing of available work-study positions (including community service positions) is made available to students who complete the University's work-study orientation session.

Support Programs and Services for Students

The University of Alabama is committed to helping students make the most of their college experiences by providing a comprehensive range of support programs and services, including high-quality academic, personal, and professional support services; diverse recreational and extracurricular activities; convenient debit and ID card services; and top-notch housing and dining facilities. These programs are administered through various areas of the University to include Student Life (p. 908), Academic Affairs, or Auxiliary and Support Services. For more information about these resources, please refer to the contact information provided under each section.

Action Card

The Action Card is the official University photo identification card and serves multiple purposes at The University of Alabama. It is used for access to:

- NCAA athletic events
- University Libraries (to check out books)
- University recreation facilities (Student Recreation Center and pool, Robert E. Witt Student Activity Center, aquatic center)
- computer labs, Student Health Center, campus entertainment events, and My Football Ticket program
- campus facilities
The Action Card accounts are similar to a checking account. With a prepaid deposit of funds, cardholders may use the card to make purchases at participating locations. There are three types of Action Card accounts: Bama Cash, Dining Dollars, and Meal Plans. Bama Cash is an optional account which, once established with a deposit of funds, allows students to pay for purchases at a wide variety of on- and off-campus locations. For details, visit the website at actcard.ua.edu.

Through My Action Card online, (actcard.ua.edu) users can access information for both Bama Cash and Dining Dollars, check balances, and review transaction history. Through My Action Card online, cardholders may also deposit funds directly to Bama Cash via Visa, MasterCard, or Discover cards. Users also may review meal plan activity from this site.

The Action Card Office is located at 451 Campus Drive East, inside the Transportation Hub, also known as the Bus Hub. Office hours are Monday through Friday, 8 a.m. – 5 p.m. Students can reach the office by phone at 205-348-2288.

Center for Academic Success

The Center for Academic Success (CAS) provides academic support designed to improve students' academic performance. Programs and services are provided to help undergraduate students:

- Succeed in University of Alabama courses
- Improve study techniques
- Improve reading proficiencies
- Prepare for professional school and graduate school entrance examinations

Students may obtain program information, use resources, or talk with a staff member about services by calling 205-348-5175. The center is open Monday through Thursday from 8 a.m. to 10 p.m. and Friday from 8 a.m. to 4:45 p.m. during the fall and spring semesters. Summer hours vary.

Visit our website at cas.ua.edu for more information.

Academic Support Services at the Center for Academic Success

The Learning Resource Center

- The Learning Resource Lab provides students with access to materials and resources. Computer programs and other digitized media are available to students, as well as review materials for students preparing to take graduate and professional school entrance exams.
- Reading and Study Skills Workshops are offered to help students improve and build skill sets they need to be academically successful. Staff can also provide a study skills assessment to students on an individual basis.

Tutorial Services and Supplemental Instruction

- Review and Help Sessions are available to students for a variety of math, chemistry, and physics classes. These sessions are available for students to drop in to ask questions and seek assistance.
- Supplemental Instruction Sessions are facilitated by peer leaders and instructors. These sessions offer students the opportunity to integrate study strategies with specific course content.
- Small Group Tutorial Sessions are available to students in select courses. Sessions are peer-led and are structured to give students more individual attention.

Academic Support Programs

- Student Support Services Trio Program: Designed to assist first generation college students; students with limited incomes, and/or students with disabilities; the program provides individualized support services to help increase student persistence and graduation as well as help students grow personally, academically, and professionally. To learn more about the SSS Program or to apply online, go to http://sss.ua.edu/.
- Academic Coaching: Coaching appointments are one-on-one meetings with staff members at the Center for Academic Success. These appointments are designed to help students evaluate their success, establish goals, identify academic resources, and create an action plan to improve their academic performance.

Disability Services

The Office of Disability Services (ODS) is the central contact point for UA students with academic disabilities. ODS works with faculty and other members of the University community to provide individualized academic accommodations and support services while promoting student responsibility and self-advocacy. It is the student’s responsibility to make known a need for academic accommodations and services by (1) providing appropriate documentation of the disability to ODS, (2) formally requesting accommodations by meeting with an ODS accommodations specialist, and (3) meeting with each of his/her/their professors to present a formal ODS accommodation letter and to discuss the implementation of accommodations.

Disability documentation can be submitted via one of the following routes:

Mail
Office of Disability Services
The University of Alabama
1000 Houser Hall, Box 870185
Tuscaloosa, AL 35487-0185

Fax
205-348-0804

Email
ods@ua.edu (Please send as a PDF attachment)

Hand-delivery
Houser Hall, Suite 1000, 301 7th Avenue
For more information about services for students with disabilities, including documentation requirements, visit ods.ua.edu or call 205-348-4285 (voice), or 205-348-3081 (TTY). Office hours for ODS are Monday through Friday, 8:00 a.m. to 4:45 p.m.

International Student & Scholar Services

International Student & Scholar Services, one of three units within the Capstone International Center of The University of Alabama, provides specialized services for international students, professors, research scholars, visitors, and their families. In addition to student and scholar visa support, International Student & Scholar Services conducts intensive orientation programs and provides vital information regarding U.S. immigration compliance as well as multicultural guidance.
and counseling. These are ongoing services that monitor individual progress and ensure compliance with Department of Homeland Security regulations.

Recognizing the importance of international student programming, International Student & Scholar Services coordinates a wide variety of student activities. These include weekly events such as international coffee hour, meetings of the international spouse group, and an academic and culture support group, as well as annual events such as a cultural retreat and international education week activities. International Student & Scholar Services also coordinates with the President’s Office for the annual President’s Welcome Reception for international students.

International Student & Scholar Services advises and assists the International Student Association, which represents all international students, and coordinates activities and events with the many nationality organizations on campus. Professional staff work closely with community groups such as Tuscaloosa’s International Friends (TIF), which is a host friendship program for community members and international students.

International Student & Scholar Services may be contacted by telephone at 205-348-5402; by fax at 205-348-5406; by email at international@ua.edu; or by mail at The University of Alabama, International Services, Box 870254, Tuscaloosa, AL 35487-0254, USA. Offices are located in 105 B.B. Comer Hall.

Severe Weather Guidelines

The safety and well-being of our students, employees, and visitors is our highest priority at The University of Alabama. Please be familiar with UA’s severe weather guidelines and be prepared to quickly move to safety if severe weather occurs.

Some students and employees commute from adjacent counties. These counties may experience weather-related problems not encountered in Tuscaloosa. Individuals should take the necessary precautions to ensure personal safety. Whenever the National Weather Service issues a warning, people in the path of the storm should take immediate life-saving actions.

Personal safety should dictate the actions that faculty, staff and students take.

- Classes will remain in session until the National Weather Service issues tornado warnings for the campus. In the case of a tornado warning, all University activities are automatically suspended, including all classes and laboratories.
- Please move immediately to the shelter or best available refuge area and remain there until the tornado warning has expired.
- Classes in session when the tornado warning is issued can resume immediately after the warning has expired at the discretion of the instructor.
- Classes that have not yet begun will resume 30 minutes after the tornado warning has expired provided at least half of the class period remains.
- Encourage students in your classroom to follow these procedures by remaining in the building and going with you to a shelter or best available refuge area.
- During a tornado warning, Crimson Ride will immediately suspend operations, and the driver will direct passengers to shelter in select buildings.

Remember, when severe weather strikes and the warning sirens sound:

- Go to the nearest shelter or best available refuge area.
- Stay tuned to radio or television stations for further weather statements.
- Remain inside until the severe weather threat has ended.

If a tornado warning is issued for the campus, students, employees, and visitors will be notified using some of the methods listed below. If you receive notification of a tornado warning through any of these methods, move to safety immediately.

UA issues emergency notifications using the following methods:

- UA Alerts, which simultaneously deploys text messages, emails, and phone calls
- Campus Indoor and Outdoor PA system, located in most academic buildings and residence halls
- Emails
- Social media, including Twitter
- UA home page
- Media alerts through local radio and TV stations
- Digital signage across campus
- Crimson Ride bus marquees
- Tuscaloosa County EMA siren
- Emergency Alert System (EAS)
- UAPD sirens
- UA safety app

Additional information regarding the University’s Emergency Management Program is available at: https://ready.ua.edu/. Follow @UA_safety on Twitter.

Student Affairs

The Division of Student Life maximizes each UA student’s learning experiences. Student Life staff create intentional programs, services, and environments that promote student learning, development, and well-being in an inclusive community that encourages students to be informed and engaged.

Career Center

The Career Center is a vital part of the University community. Students do not necessarily need to select a major when they are freshmen, but they need to begin exploring academic majors and career options that can be available to them. Even students considering pursuing graduate or professional education when they complete college should discuss career and graduate school options with a career consultant. Students should visit the Career Center or one of the satellite offices during their first semester at the University. The main office is located at 3400 Ferguson Center. Satellite offices are located in 190 Reese Phifer Hall, 249 Bidgood Hall, and 1004 Bevill Hall. The Career Center offers a comprehensive range of career development services and employment opportunities. All Career Center offices are open Monday through Friday from 8 a.m. to 5 p.m., and there is 24/7 online access to job postings, resume referrals, and on-campus recruiting through Crimson Careers. To schedule an appointment or for more information, call 205-348-5848. Specific information on services is available at career.sa.ua.edu.

Center for Service and Leadership

The Center for Service and Leadership strives to enhance student experience through active and diverse engagement opportunities in the community. The Center for Service and Leadership connects students to meaningful experiential learning experiences, including
volunteer opportunities, that provide students the ability to enhance their leadership skills while becoming active global citizens. The CSL is located in 1100 Ferguson Center. For more information, call 205-348-2865 or visit leadandserve.sa.ua.edu.

Counseling Center

The Counseling Center helps students achieve academic success and personal growth through quality counseling, as well as psychological and consultative services. By providing short-term emotional health care services, the Counseling Center serves as a screening, intake, and referral resource. The Center can assist students in identifying needs and locating an appropriate resource if more help is needed. Among the services provided are individual, couple, and group counseling; substance abuse counseling; crisis intervention; and medication referral services. The Counseling Center is located in 1000 South Lawn Office Building. For information and assistance, call 205-348-3863 or visit counseling.sa.ua.edu.

Dean of Students

The Office of the Dean of Students is a starting place for students who have questions or concerns about their experience at the University. The office works with other offices in Student Life and Academic Affairs to engage and support students during their experience at the Capstone. The mission of the Dean of Students office is to maximize each UA student’s learning experience by fostering personal development through opportunities for participation, involvement, and engagement. The Division of Student Life provides educational experiences outside the classroom that serve to develop students personally, socially, and spiritually, helping them become responsible citizens of the world. Areas within the Dean of Students office include: the Women and Gender Resource Center, the Office of Fraternity and Sorority Life, the Office of Student Conduct, Campus Ministries, National Student Exchange, and the On-Call Dean program. The Dean of Students office is located in 230 Ferguson Center. For more information about programs and services, call 205-348-3326 or visit dos.ua.edu.

Ferguson Student Center

The University Union supports, supplements, and complements the overall academic, research, and service mission of The University of Alabama by offering a variety of high-quality services, collaborative programming, and leisure-time activities. The University Union’s Ferguson Center serves as the center of the campus community and is open more than 340 days per year, seven days per week and at least 15 hours per day to serve the needs of the campus community. The Ferguson Center is the site of many University offices, including the Career Center and the Center for Service and Leadership, as well as other offices dedicated to serving students. Conference and meeting room reservations for the Ferguson Center, Student Services Center, and Ferguson Plaza are also made through the Ferguson Center Reservations and Event Planning Office. For more information and to access the Online Room Reservation Form, please visit ferguson.sa.ua.edu or call 205-348-2827.

First Year Experience

First Year Experience (FYE) is committed to supporting first-year students’ academic and social transition to The University of Alabama. A first-year student is any undergraduate student attending the University for the first time, and FYE provides support, resources, and programs for freshman and transfer students. FYE helps first-year students understand expectations associated with being a member of the UA family and educates them about support services on campus. To find out more about First Year Experience, call 205-348-8404 or visit fye.sa.ua.edu.

Housing and Residential Communities

Housing and Residential Communities provides safe, secure housing for undergraduate and graduate students, supporting their academic success. Campus housing provides leadership opportunities and avenues for campus involvement and engagement. For more information about campus housing, call 205-348-6676 or visit housing.sa.ua.edu.

Parent Programs

The Office of Parent Programs supports the successful academic and social transition of new students into The University of Alabama community, as well as promotes continuous relationships among our students’ parents, families, and the University. Parents of students can also find the answers to questions and learn how to best support their student’s education and outside-of-the-classroom experiences. For more information about parent programs, including Family Weekend in the fall, call 800-392-2777 or visit parents.sa.ua.edu.

Student Involvement

The mission of the Office of Student Involvement is to connect all students to the groups and activities that best fit their goals and foster their interests. The Office of Student Involvement is located in 3610 Ferguson Center. To find out more about the many ways to get involved on campus, visit studentinvolvement.sa.ua.edu or call 205-348-6114.

Student Media

The Office of Student Media provides UA students with direct, hands-on, real-life experience, preparing them for careers and success after graduation. Student Media offers out-of-classroom opportunities through The Crimson White, a print and an online newspaper; WVUA, a non-commercial radio station at 90.7 FM; Marr’s Field Journal, an undergraduate literary/art journal; Black Warrior Review, a graduate-level national literary journal; Southern Historian, a graduate-level research journal; Alice, a lifestyle magazine for young women; and a Digital Media unit that develops content and services for the web. For more information, visit osm.ua.edu or call 205-348-7257.

University Recreation

University Recreation conducts sports and fitness programs for the University community that strengthen well-being, learning, and personal growth. Areas include intramural sports, sport clubs, outdoor recreation, personal training, fitness testing and consultations, group exercise classes, non-credit instructional classes, aquatic services, and informal (open) recreation. Facilities available include the ultramodern, award-winning Student Recreation Center, University Aquatic Center, the Student Activity Center at Presidential Village, outdoor fields complex, outdoor pool complex, and tennis courts. For more information on these facilities and programs, call 205-348-3994 or visit urec.ua.edu.

Women and Gender Resource Center

The mission of the Women and Gender Resource Center is to address gender inequity and foster a community that values social justice, safety, leadership, mentoring, education, multiculturalism, partnership, and research. The center provides students with counseling and advocacy services when dealing with issues of dating violence, sexual assault, childhood abuse, or stalking. There are opportunities to get involved through ongoing programs, such as the Young Women Leaders program (YWLP); the Young Men’s Leadership Program; the Safe Sisters Peer Education Program, and many more programs and initiatives. Additionally, there are opportunities to be involved with special events and programming, such as the Brown Bag Lunch Series, book clubs,
conferences, and awareness event activities. The WGRC is located in 2000 South Lawn Office Building and is open Monday – Friday from 8 a.m. to 5 p.m. The on-call advocate is available 24/7, even during school holidays. For additional information about programs and services, contact the Women and Gender Resource Center at 205-348-5040 or visit wgrc.sa.ua.edu.

**Student Health Center and Pharmacy (SHC)**

The University of Alabama provides high-quality and easily accessible health care for its students through the University of Alabama Student Health Center and Pharmacy (SHC). Located at the corner of Peter Bryce Boulevard and 4th Street East and adjacent to the UA tennis courts, the SHC is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). The SHC can meet most ambulatory medical needs of UA students, including women’s health, psychiatry, ADD/ADHD, medical nutrition therapy, and allergy/immunization services as well as international-travel medical evaluations. We provide referral services for other medical services when needed. For convenience, students may make certain SHC appointments through our Patient Portal accessible through their MyBama account. Those requiring appointments with our specialty services should call the appointment line, 205-348-2778.

For University-required immunizations for all entering students, refer to www.shc.ua.edu/immunizations; these can also be obtained at the SHC. For more general information, visit www.shc.ua.edu or call 205-348-6262.

For students who need to purchase health insurance, information regarding this can be found at www.uhcsr.com/ua; or by calling 205-348-4086.

**Transportation and Parking Services**

Campus parking maps, along with campus parking rules and regulations, are available at the Transportation Services offices located in the Transportation Hub of the Campus Drive Parking Deck (451 Campus Drive East) or online at bamaparking.ua.edu.

**UA Police Department**

For information on University Police services and personal safety information, consult the Safer Living Guide available at the main desk of the UA Police Department, UA residential dorms, UA Libraries, and at businesses surrounding the UA campus, or visit the website at police.ua.edu. The UA Annual Campus Security and Fire Safety Report, containing crime and fire statistics and outlining UA security and fire safety policies and procedures, is available online at safety.ua.edu.

**University Libraries**

With access to more than 4.1 million print and electronic resources, University Libraries, a system of five separate discipline-related libraries, provides both traditional print collections and cutting-edge technology. All library buildings offer a computer-networked environment providing enhanced access to electronic information sources. In addition, a wireless network facilitates student use of laptop and tablet computers and cell phones. As research has become increasingly interdisciplinary in nature, students may find collections of importance in more than one library and in our online resources.

The University Libraries website, lib.ua.edu, available 24/7 from any computer, provides all library users with access to integrated collections, services, and information resources. Currently, the University Libraries system provides access to 199,515 full text print and electronic journals. In addition, more than 591 databases, including indexes, abstracts, and other reference resources, are linked from the Libraries’ website. The collection of electronic books continues to grow with more than 1.5 million e-books in all disciplines.

The University Libraries discovery interface, Scout, is accessible through the Libraries website and provides access to the full catalog of local holdings, as well as wide variety of database content – including scholarly and trade journals, popular magazines, current and historic newspapers, microfilm, federal government documents, digital archives, as well as streaming audio and video. Links to books and electronic materials on reserve, Interlibrary Loan services, and other self-initiated services, such as renewing books and requesting materials from the Libraries Annex, are also available. Faculty and students also have access to research collections encompassing more than 1 million titles from the Center for Research Libraries (CRL) via Interlibrary Loan.

Subject liaisons work closely with students and faculty to assist them in ordering or locating materials and in advising students and faculty who need specialized assistance with research projects. A list of subject liaisons is available on the University Libraries website. Reference services are available in person, over the phone, and online through the Ask-a-Librarian service. University Libraries also provides services for users with disabilities.

The University Libraries system offers academic software to support student assignments and class projects. Software is upgraded and added annually. Students can find locations of the current programs available on library computers by accessing the University Libraries website. The University Libraries provide access to 3D scanning and printing services, 3D stereoscopy, virtual reality, and other technology equipment for student learning and research.

In 2017, the University Libraries launched the Institutional Repository for UA. In this resource one can find electronic theses and dissertations (2009 onward) and faculty publications. The Institutional Repository accepts faculty and student research publications for submission.


**Amelia Gayle Gorgas Library**

Amelia Gayle Gorgas Library is the main campus library supporting the teaching and research needs in humanities and social sciences, and houses government information, statistics, and data.

Located on the first level, the Gorgas Library Learning Commons provides students with computers equipped with the latest productivity and academic software used in classrooms and laboratories. The area provides space for students to study together for group projects or individually. In addition, students, faculty, and staff can ask for personal research assistance at the Information Desk located in the Commons area. Also located on this level is the Digital Humanities Center, a hi-tech environment for faculty and graduate students exploring the digital humanities; the Music Library with two recording booths; and Java City Café, a fun place to relax and meet friends.
The Circulation Desk, located on the second level, serves as the central check-out area for media production equipment, laptops, calculators, headphones, Oculus Rift, books, and other materials. Items requested through InterLibrary Loan can also be picked up at the Circulation Desk. Gorgas 205 (a large meeting room for University events), the Pearce Foyer (exhibition space), group study spaces, and the Sanford Media Center, a leading-edge facility for digital media production for students, are all located on the second level.

Special features in Gorgas Library include areas with designated noise levels, from silent to quiet talking; several types of seating and study accommodations, including group study rooms for collaborative assignments; designated study carrels for graduate students and faculty; additional computers with academic software on the third level; printers; and 3D printers. University Libraries partners with the University Writing Center which maintains a satellite center in Java City Café. Gorgas Library is located on the Quad opposite Denny Chimes.

**Angelo Bruno Business Library**

Angelo Bruno Business Library serves the business information needs of the campus and in particular the students, faculty, and staff of the Culverhouse College of Business and the Manderson Graduate School of Business. The library also houses the College's Sloan Y. Bashinsky Sr. Computer Center. Bruno Library's resources comprise a wide variety of scholarly and professional business databases, along with a significant collection of print and electronic books and journals. Library faculty and staff offer users specialized information assistance and services, including individual and class instruction in library research and effective use of library databases. Special features include areas with designated noise levels, from silent to quiet talking; several types of seating and study accommodations, including group study rooms for collaborative assignments; and designated study space for graduate students. A wide range of software is offered on computers throughout the facility and on circulating laptops. The 64,000-square-foot facility is conveniently located on Stadium Drive within the Culverhouse complex.

**McLure Education Library**

McLure Education Library serves primarily the students, faculty, and staff of the College of Education and the Graduate School of Education. McLure Library includes the School Library and Curriculum Materials Center on the lower level; reference and periodical areas and public computer areas on the main level; and study rooms, two presentation practice rooms, and a computer lab on the upper level. The main collection of the library comprises scholarly and professional books and journals related to education (including sports and physical education). The School Library collection contains over 25,000 trade books for preschool through young adult readers. The Curriculum Materials Center holds approximately 10,000 items, including K-12 textbooks, curriculum guides, supplemental classroom materials, and educational media including CDs, DVDs, kits, games, and other items. McLure is located on University Boulevard.

**Eric and Sara Rodgers Library for Science and Engineering**

Eric and Sara Rodgers Library for Science and Engineering serves students, faculty, and staff, in the sciences, engineering, and nursing programs. Rodgers Library offers a 3D studio and other Makerspace resources, seven group study rooms, and equipment and special spaces for students to prepare, practice, and record presentations. The library is equipped with a generous number of computer workstations offering a wide range of productivity software, including specialized software for use in science and engineering. Rodgers Library is open 24 hours daily from Sunday through Thursday during portions of the semesters, giving students more opportunities to learn, study, and do research. Rodgers Library is located immediately south of Shelby Hall and the Science and Engineering Complex, north of the Biology building, and one building west of the Campus Drive Parking Deck.

**Special Collections**

Special Collections is comprised of the W.S. Hoole Library and the A.S. Williams III Americana Collection. Hoole contains rare and unique materials dealing with U.S. history with a focus on Southern history and culture and Alabama history and culture. Areas of concentration include the exploration and settlement of territory in the Gulf of Mexico; the Civil War and Reconstruction; slavery, abolition, and emancipation; the economic and racial history of the New South; and the Civil Rights movement. Hoole has more than 40,000 volumes of rare books and incunabula, serials, and newspapers; about 4,000 manuscript collections, over 2,000 maps, including several hundred from the 16th, 17th, and 18th centuries, several hundred thousand photographs, and nearly a million University records. Extensive digital collections comprising several hundred thousand images are accessible through Hoole’s home page. The A.S. William Collection includes an additional 20,000 volumes, hundreds of maps, and an extensive collection of manuscripts and historical documents pertaining to the history and culture of the South, particularly the Civil War. The Civil War materials in both Hoole and Williams document the war from the perspectives and observations of participants in the Union and the Confederacy, and include several hundred Confederate imprints. Hoole Library is located on the second floor of Mary Harmon Bryant Hall and the Williams Collection is located on the third floor of Gorgas Library.

**Additional Libraries**

Under separate administration are the Health Sciences Library in the University Medical Center, the Bounds Law Library in the Law Center, and the Map Library in Farrah Hall.

The University of Alabama has an academic membership in the Association of Research Libraries, a selective group of institutions emphasizing research and graduate instruction at the doctoral level and supporting large, comprehensive collections of library materials. The University Libraries system also holds memberships in the Center for Research Libraries, the Association of Southeastern Research Libraries, the Southeastern Library Network, the Coalition for Networked Information, and the Network of Alabama Academic Libraries.

**Writing Center**

The University Writing Center (322 Lloyd Hall), a free consultation service, provides one-on-one tutoring to students in all disciplines. We help students build confidence as writers, revise their drafts, and develop the skills necessary for long-term improvement. We also offer distance-learning support for students enrolled in online classes. Appointments are encouraged, but we take walk-in clients when possible. For more information, visit writingcenter.ua.edu.

**Tuition and Other Expenses**

For an estimated cost of attendance for the current year, including annual tuition costs, visit financialaid.ua.edu/cost or contact The University of Alabama, Student Account Services, Box B70120, Tuscaloosa, AL 35487-0120; 205-348-5350. The office is located at 105 Student Services Center.
**Costs**

For a complete list of current tuition costs and an estimated student budget for the current year, visit studentaccounts.ua.edu/cost; contact The University of Alabama, Student Account Services, Box 870120, Tuscaloosa, AL 35487-0120; or call 205-348-5350. The main office is located in 105 Student Services Center.

College/course fees will vary depending on the student's actual course enrollment. College/course fees are listed online with applicable courses in the Web Schedule of Classes for the applicable term after logging into the MyBama account. To see the college fee rates per college, visit studentaccounts.ua.edu/college-fee-rates-by-college.

**Housing**

UA offers a wide range of on-campus living options that include residence halls and apartments, some including utilities. For more detailed information and current rates, visit the Housing and Residential Communities website at housing.sa.ua.edu; contact The University of Alabama, Office of Housing and Residential Communities, Box 870399, Tuscaloosa, AL 35487-0399; or call 205-348-6766 or toll free 888-498-2262. The main office is located in the Robert E. Witt Student Activity Center.

**Meal Plans**

Bama Dining offers several meal plan options. For details and rates, visit the Bama Dining website at bamadining.ua.edu; contact The University of Alabama, Bama Dining Services, Box 870389, Tuscaloosa, AL 35487-0389; or call 205-348-6816. The main office is located in Lakeside Dining.

**Dining Dollars**

All undergraduates are billed for Dining Dollars along with other registration charges upon enrollment of nine or more hours. For current rates, visit financialaid.ua.edu/cost. A Dining Dollars account is set up automatically on each student’s Action Card. Dining Dollars can be used to purchase meals and snacks from all Bama Dining locations, selected campus vending machines, and selected off-campus dining facilities. For complete information on Dining Dollars, visit the Action Card website at acctcard.ua.edu; contact The University of Alabama, Action Card Office, Box 870355, Tuscaloosa, AL 35487-0355; or call 205-348-2288 or toll free 1-800-474-ACTT (2288). The main office is located in the Campus Drive Parking Deck at 451 Campus Drive East.

**Parking**

If you will have an automobile/motorcycle on campus, you will need to purchase a parking permit from Transportation Services. For information and rates, visit the Transportation Services website at bamaparking.ua.edu; contact The University of Alabama, Department of Transportation Services, Box 870179, Tuscaloosa, AL 35487-0179; or call 205-348-5471. Parking Services is located in the Campus Drive Parking Deck.

**Personal Expenses**

In addition to the costs listed on the estimated student budget at financialaid.ua.edu/cost, personal expenses, which will vary from student to student, should be considered. Student Financial Aid makes financial aid awards based on an estimated on-campus budget (including personal expenses). For the current estimated annual financial aid budget, visit the Financial Aid website at financialaid.ua.edu; contact The University of Alabama, Office of Student Financial Aid, Box 870162, Tuscaloosa, AL 35487-0162; or call 205-348-6756. The main office is located in 106 Student Services Center.

**General Payment Information**

Students are expected to meet all financial obligations to the University by specified due dates in order to maintain their enrollment. Payment in full or Payment Plan participation is required for a student to maintain each semester’s registration. Students who have not completed payment for a term before the bill date of the next term will lose their ability to register for subsequent terms.

Students will be notified via their @crimson email when a student account bill is available to review and pay. No paper bills will be mailed. Students will log in via their myBama account to view their account activity and make payment. Instructions for making payments can be found at Make a Payment or by viewing our How to Videos.

For important dates and more information see studentaccounts.ua.edu.

**Withdrawal from the University**

It is the student’s responsibility to officially withdraw from the University or from an individual course in accordance with University regulations. The Withdrawal (p. 633) section of the Undergraduate Catalog has the necessary instructions.

Please visit https://studentaccounts.ua.edu/withdrawal-from-the-university/ for more information about the financial impacts of withdrawing, including information on how federal financial aid, loans, and scholarships may be impacted.

**Academic Enrichment Opportunities**

Capstone International Center (p. 912)

College of Continuing Studies (p. 917)

English Language Institute (p. 919)

Honors College (p. 919)

Military Programs (p. 925)

Special Academic Programs (p. 927)

**Capstone International Center**

**Global Studies Certificate** (p. 916)

Dr. Teresa E. Wise
Associate Provost for International Education and Global Outreach Office: 135 B.B. Comer Hall

The Capstone International Center (CIC) has multiple complementary units and functions, including intensive English language instruction, U.S. visa support and compliance, and education abroad. The Capstone International Center informs, assists, and educates both international and domestic students, faculty and staff members, as well as members of the local civic, education, and corporate communities. The Center annually serves more than 1,100 international students on campus and makes possible the participation of UA faculty, students, and staff in a multitude of internationally focused degree, research, and outreach programs. Education Abroad sends approximately 1,200 students abroad each year. The Center also oversees the Global Studies Certificate, and the Fulbright Program for both students and faculty.

CIC is involved with numerous international education organizations providing professional training, outreach to national and local...
governmental entities, and active involvement at annual conferences to promote international education at member universities. These organizations include NAFSA: Association for International Educators, the Institute for International Education (IIE), the Council on International Educational Exchange (CIEE), the Association of International Education Administrators (AIEA), the European Association of International Education (EAIE), and the Forum on Education Abroad.

Through its three units, the English Language Institute (ELI), Education Abroad (EA), and International Student and Scholar Services (ISSS), the Center provides courses, programs, and activities to the constituents of The University of Alabama community.

Fulbright Programs
The Capstone International Center encourages and facilitates active participation in all Fulbright programs. Since the founding of the Fulbright programs in 1948, more than 150 UA students, faculty and professional staff members have been selected to receive the prestigious Fulbright award. Their appointments have ranged from Austria to Zimbabwe. The University of Alabama has been a Top Producer for U.S. Student Fulbright Awards twice, for the 2015-2016 and 2017-2018 awards cycles. More information is available from the CIC, 135 B.B. Comer Hall; 205-348-9002; or cic@ua.edu.

International Academic Programs: Education Abroad
The Education Abroad office, a unit of The Capstone International Center, provides support to the UA community through identifying, developing, and administering overseas opportunities. Education Abroad offers academically challenging programs for students, promoting both academic and personal growth. The office is responsible for all of UA’s global learning experiences. Exchange programs, affiliate programs, and numerous faculty-led programs are offered. Visit international.ua.edu/educationabroad to learn more about all of our study abroad programs.

Exchange Programs
The University of Alabama offers a number of international exchange programs allowing students to study as visiting students at overseas universities. Each program gives students opportunities to learn in a foreign country and obtain firsthand knowledge of another people, language, and culture in addition to gaining course credits. In some cases, a working knowledge of the language of the host country is a prerequisite. In others, the language can be studied for the first time in the host country; sometimes, no language requirement is necessary (e.g., England and Australia). Students pay University of Alabama tuition based on residency and are assisted in arranging transfer of credits through appropriate departments and divisions prior to departure. Graduate students should secure approval from the Graduate School prior to taking any overseas credit that they may wish to transfer.

International exchange programs are currently available to UA students at the following partner universities for either one or two semesters and, in some cases, summer study.

- Australia
  - Queensland University of Technology (Brisbane)
- Austria
  - University of Klagenfurt
- Belgium
  - Université de Liege
- Denmark
  - Aarhus School of Business
- England
  - University of Birmingham
  - University of Hull
  - University of Leicester
- France
  - Université François-Rabelais (Tours)
  - Bordeaux Business School
  - Paris-EST Marne la Vallee (Paris)
  - Université de Poitiers (Poitiers)
- Germany
  - University of Augsburg
  - University of Berlin
  - University of Mannheim
- Italy
  - Polytechnic University of Torin
  - University of the Sacred Heart (Milan)
- Japan
  - Chiba University
  - Ritsumeikan University (Kyoto)
  - Hiroshima University
  - Meiji University
  - Kansai Gaidai University (Hirakata-City)
- Korea
  - Pusan National University
  - Yonsei University (Seoul)
  - Ajou University (Suwon)
  - Yeungnam University (Daegu)
- The Netherlands
  - Hanzehogeschool-Gr’ningen
- Scotland
  - University of Glasgow
- Taiwan
  - Feng Chia University (Taichung)
- Wales
  - University of Wales (Aberystwyth)

Faculty-led Programs
In addition to its longer-term international exchange programs, The University of Alabama conducts many overseas study programs lasting from two to six weeks, most often during the summer and Interim sessions. These are normally led by UA faculty members. The number of these programs has expanded greatly over the last few years. Scholarships and financial aid are available to students participating in these programs. Examples of programs and fields of study in recent years have included the following:

- Alabama at Oxford: English, history, honors
- Alabama in Austria: German language and culture
- Alabama in Belgium: Political science
- Alabama in China: Chinese, business, communications, culture
- Alabama in Ecuador: Biology
- Alabama in France: French language, culture, and literature
- Alabama in Ghana: Geography, health care
- Alabama in Greece: Classical civilization, religious studies
- Alabama in Italy: Italian language and culture, art history, New College
• Alabama in Japan: Japanese language and culture, transcultural nursing
• Alabama in Spain: Spanish language and culture
• Alabama in Spain: Engineering
• Alabama in Sweden: Political science
• Alabama in Turkey: Business
• Alabama in Barcelona: Internships
• Alabama in Dublin: Internships
• Alabama in London: Internships

Affiliate Programs
The University of Alabama also offers programs through third-party program providers and students continually have positive feedback on their experiences with these providers. Students participating in these programs can use their UA scholarships and financial aid for funding. Also, students do not pay UA tuition but pay the program fee charged by the program provider and additional expenses including, but not limited to, travel, personal, meals, visa, housing expenses, etc.

Similar to third-party affiliate programs, students also have the opportunity to spend a summer, semester or academic year at several international universities with which we are affiliated. Participants in these programs can use their UA scholarships and financial aid for funding. Also, students do not pay UA tuition but pay the cost of attending the international university. A list of UA’s Affiliate Programs and international university programs can be found online at studyabroad.ua.edu.

Study Abroad Program Policies
• Students participating in UA programs abroad must be in academic good standing. GPA requirements vary by program.
• All UA students participating on programs abroad will be cleared through the Office of Student Conduct.
• Students must submit all application and pre-departure requirements prior to program departure.
• Study abroad in countries where current U.S. Department of State Travel Warnings exist is subject to additional restrictions and requirements, and may be denied.

Additional information about any international study program may be obtained from studyabroad.ua.edu; 135 B.B. Comer Hall; by writing The University of Alabama, Education Abroad, Capstone International Center, Box 870254, Tuscaloosa, AL 35487-0254; or by calling 205-348-5256.
In the rare instance where The University of Alabama is unable to meet the overseas study needs of a student, Education Abroad provides information about additional international education opportunities available through study abroad at other institutions and organizations.

International Student & Scholar Services
International Student & Scholar Services, a unit of the Capstone International Center, provides specialized services for international students, professors, research scholars, visitors, and their families.

International Student & Scholar Services’ primary function is to provide visa support for these international members of the UA community. The office is responsible for the creation and ongoing maintenance and verification of visa support documents within the Student and Exchange Visitor Information System (SEVIS) for both F-1 student visas and J-1 student and scholar visas. These are ongoing services that monitor individual progress according to federal regulations. The office is also responsible for filing H-1B and other types of work-visa support documentation on behalf of international faculty and staff at UA.

International Student & Scholar Services conducts comprehensive orientation programs and provides vital information regarding U.S. immigration compliance as well as multicultural guidance and counseling. Great emphasis is placed on international student programming. International Student & Scholar Services coordinates a variety of student activities such as a weekly international coffee hour, an international spouse support group, and an annual welcome reception for international students.

Professional staff members advise and assist the International Student Association, which represents all international students and the many nationality organizations on campus. Professional staff work closely with community groups such as Tuscaloosa’s International Friends (TIF), which sponsors a friendship family program for international students.

International Student & Scholar Services may be contacted by telephone at 205-348-5402; fax at 205-348-5406; email at international@ua.edu; or mail at The University of Alabama, International Student & Scholar Services, Box 870254, Tuscaloosa, AL 35487-0254, USA. More information about office services, visa regulations, and processing of visa support is available online at http://international.ua.edu/isss/.

International Student & Scholar Services is located in 105 B. B. Comer Hall.

English Language Institute (ELI)
For the non-native speaker of English, The University of Alabama English Language Institute (ELI), a unit of the Capstone International Center, offers two types of year-round English-language programs: 1) The Intensive English Program which offers six sessions per year and six levels of proficiency, from beginning to advanced, and 2) Customized Group Programs which provide specially designed programs for groups of 10 or more participants. In addition, the ELI offers two programs for matriculated students at The University of Alabama: the International Teaching Assistant Program, which trains and evaluates international graduate teaching assistants, and the Academic Support Program, which provides opportunities for undergraduate and graduate students who may want or need additional English-language instruction.

To obtain more information about any of the ELI programs, contact The University of Alabama, English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; visit eli.ua.edu; call 205-348-7413; fax 205-348-9266; or email info@eli.ua.edu.

Intensive English Program
The ELI Intensive English Program (IEP) is designed for individuals who need to learn English as a second language. The program focuses on preparing students for academic success, both in English-language proficiency and cultural awareness, for undergraduate and graduate study at The University of Alabama.

Six levels of study, from beginning to advanced, are available. Each level consists of a minimum of 20 hours of class per week. Sessions lasting 6-8 weeks are available six times per year in January, March, May, June, August, and October. Students may begin their English study at the beginning of any one of these sessions.

An ELI student wishing to enter an undergraduate degree program at The University of Alabama may meet UA’s English proficiency requirements either by obtaining the required TOEFL (Test of English as a Foreign Language) score or by completing Level 6 with a minimum GPA of 3.0 in Levels 4, 5, and 6. Conditionally admitted students who meet certain conditions (minimum TOEFL score and GPA) become eligible to enroll in
undergraduate courses while completing their ELI program of study. In such cases, the number of UA courses that an eligible student may take is determined by the ELI.

Students pursuing graduate study must complete Levels 4, 5, and 6 with a minimum GPA of 3.5 to meet English proficiency requirements. In certain cases, the Graduate School, the ELI, and the student’s academic department may together grant permission for a student who has completed Level 4 or higher with a minimum GPA of 3.5 to enroll in one graduate course per semester while completing the ELI program of study. The specific course must be approved by the instructor and department prior to enrollment.

Students who apply for admission to UA and meet the academic and financial qualifications to enter the University but do not meet the English proficiency requirements may receive conditional admission. Such conditionally admitted students will not be eligible to begin an academic program and will be required to register for study in ELI until they satisfy the requirements for English proficiency for full or partial academic program enrollment.

### Intensive English Program Courses

#### Structure: Levels 1 to 6
Structure courses provide students with the basic grammatical structures they will need to communicate effectively in English in four language skill areas: listening, speaking, reading, and writing. Each structure course emphasizes communication, both comprehension (listening and reading), and production (speaking and writing). Structure courses meet five hours per week.

#### Speaking/Listening: Levels 1 to 6
ELI courses in Speaking/Listening provide students with the opportunity to improve their listening and speaking skills and to gain confidence in using English to communicate orally. Students practice appropriate conversation management skills, receive instruction on problem areas of pronunciation and learn useful vocabulary. These activities are carried on through a variety of classroom exercises that focus on the everyday situations students are likely to encounter while adjusting to life in the United States. Speaking/Listening courses meet six hours per week.

#### Reading/Writing: Levels 1 to 6
The Reading/Writing curriculum of the English Language Institute is designed to provide students with both the skills and the practice that are necessary for them to develop satisfactory reading and writing skills in English and eventually to function successfully in U.S. university courses where extensive academic reading and essay writing are required. Skill instruction along with accessible, varied, and challenging tasks invite students to invest their time and energy in constructing meaning from written texts, responding to those texts and producing writings of their own. Students will acquire new vocabulary and develop effective reading strategies for different types of tests. Working on closely related reading and writing assignments, students will develop proficiency in understanding what they read and in thinking, drafting, and revising their own ideas by working through the writing process with input from their classmates and teachers. Reading/Writing courses meet nine hours per week.

### Culturally Speaking Class

Through the Culturally Speaking class, ELI students meet regularly with American students to converse in English in relaxed surroundings. Culturally Speaking provides a comfortable way for ELI students to form friendships with American students and to practice their English.

### Culture and Language Exchange Program

The Culture and Language Exchange Program matches the ELI students with UA students who are studying the ELI student’s native language. Once matched, these pairs or groups of students then meet as often as they like for conversation practice in both English and in the particular foreign language.

### Customized Group Programs

ELI Customized Programs can be designed for 10 or more participants who are interested in customized dates and curricula. Such programs are typically designed for international English teachers, students whose international universities have approved given curricula for credit, international graduate students preparing to enter universities throughout the United States, and business professionals who wish to improve their overall effectiveness in English or to concentrate on specific skills, such as written communication.

An organization wishing to participate in such a program should clearly define the goals of its group and keep in mind that program enrollments typically require a minimum of 10 participants. Financial sponsorship for the above programs may come from ministries of education, embassies, corporations, private philanthropic organizations, U.S. or other government sponsoring agencies, or the individual participants themselves. Programs may be offered at any time of the year and typically range in length from two to six weeks.

### Academic Support Program

The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the undergraduate level, newly admitted international students who take the UA English Proficiency and Placement Exam (EPPE) prior to beginning their first semester at UA, may be asked to take one or two ELI courses in spoken and/or written English on a part-time basis. These students may pursue their academic studies while fulfilling their EPPE requirements. Students must pass the designated ELI Speaking/Listening or Academic Writing course(s) before enrolling in the University’s required English courses for credit. At the graduate level, ESL support courses in written and spoken English are available free of charge to full-time international graduate students each fall and spring semester. In addition, the ELI Study Center and the UA Language Resource Center are available for individualized language assistance.

### International Teaching Assistant Program

The International Teaching Assistant Program (ITAP) provides training and evaluation for international students and graduate teaching assistantships. Participation in the ITAP program is mandatory for all non-native English-speaking GTAs and graduate assistants who have instructional responsibilities at the University.

### Contact the ELI

To obtain more information about any of the above ELI programs, contact The University of Alabama English Language Institute, visit the ELI website (eli.ua.edu) or contact the ELI at Box 870250, Tuscaloosa, AL 35487-0250; telephone 205-348-7413; fax 205-348-9266; or email info@eli.ua.edu.

### Academic Support Program

The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the undergraduate level, newly admitted international students who take the UA English Proficiency and
Placement Exam (EPPE) prior to beginning their first semester at UA, may be asked to take one or two ELI courses in spoken and/or written English on a part-time basis. These students may pursue their academic studies while fulfilling their EPPE requirements. Students must pass the designated ELI Speaking/Learning or Academic Writing course(s) before enrolling in the University’s required English courses for credit. At the graduate level, ESL support courses in written and spoken English are available free of charge to full-time international graduate students each fall and spring semester. In addition, the ELI Study Center and the UA Language Resource Center are available for individualized language assistance.

The ELI also oversees the International Teaching Assistant Program (ITAP) which provides training and evaluation for international students with graduate teaching assistantships. Participation in the ITAP program is mandatory for all non-native English-speaking GTAs and graduate assistants who have instructional responsibilities at the University.

To obtain more information about any of the above ELI programs, request a brochure and application for the Intensive English Program, or to discuss the possibility of a customized group program, contact The University of Alabama English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; visit eli.ua.edu; call 205-348-7413; fax 205-348-9266; or email info@eli.ua.edu.

Community and Corporate Outreach

Outreach is an important function within the Capstone International Center as evidenced by the annual Sakura (Cherry Blossom) Festival focused on Japanese culture), International Education Week activities, and the work of the English Language Institute (ELI). ELI provides the annual World Friends Day for local elementary schools, annual summer programs for students from our sister city in Japan, on-site corporate programs, and tailored courses for the children and spouses of employees. A variety of activities are coordinated in conjunction with the Rotary International Club of Tuscaloosa, Tuscaloosa’s International Friends (TIF), Tuscaloosa Sister Cities International, Alabama-Germany Partnership, the Children’s Hands-on Museum (CHOM), University Place Montessori School, and the Birmingham Committee on Foreign Relations. In addition, CIC has previously worked extensively with the German Supplementary School for school-age children from Germany and the Japanese Supplementary School in Birmingham.

Language Supplementary Schools

In 1995, the University, in cooperation with Mercedes-Benz U.S. International Inc., established the German Supplementary School to provide supplementary education in German to children ages six to 16 who will return to a German-speaking educational system after living in Alabama for several years. The school is no longer located on the UA campus, but CIC continues to work closely with Mercedes-Benz to promote German culture and language within the community. In addition, CIC works with the Birmingham Supplementary School for Japanese established by Honda to provide education to Japanese-speaking children.

Japan Program and Sakura Festival

The Capstone International Center, working with numerous on- and off-campus partners, organizes the annual spring Sakura (Cherry Blossom) Festival and Haiku contest for the state of Alabama. For the academic years 2013-14 and 2014-15, CIC, along with Tuscaloosa Sister Cities and UA’s Department of Modern Languages, hosted a Japanese Outreach Coordinator to bring Japanese culture to the campus and into the community.

Reciprocal student exchange programs with Kansai Gaidai University in Osaka, Ritsumeikan University, Hiroshima University and Chiba University allow qualified undergraduate students to study Japanese in Japan while undertaking Asian studies, humanities, social science, and science courses taught in English. Gilman and Freeman-ASIA scholarships for students on financial aid are also available.

Global Studies, Certificate

The University of Alabama Global Studies Certificate (GSC) is designed to introduce the undergraduate student to the cultural, economic, physical, and political aspects of being a world citizen in the 21st century. The emphasis is the contemporary rather than the historical. Nine hours of the program are specified as GSC core (usually lower division) and ideally are taken prior to the six emphasis area hours (usually upper division).

The CIP 200 Introduction To Global Studies or CIP 202 Introduction to Global Studies: Experiential Learning course should be taken first in the sequence of Global Studies Certificate (GSC) core and emphasis area courses, but the remaining courses may be taken in any order. The introductory course sets the basis for the student’s approach to the entire GSC curriculum, both core and upper division, emphasis area courses.

Students must successfully complete a total of 15 hours of coursework as specified below. Some courses may have prerequisites. Candidates for the certificate must complete an application form before the certificate can be listed on their transcript. Undergraduate students can apply for the GSC on the CIC website (http://international.ua.edu).

<table>
<thead>
<tr>
<th>Mandatory introductory course</th>
<th>Hours</th>
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Select two of seven existing courses:

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<th>Hours</th>
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<tr>
<td>GY 105 or GY 110 World Regional Geography People, Places, &amp; Environment</td>
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<tr>
<td>REL 100 or REL 102 Religions of World Honors Intro Relig Stdy</td>
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<tr>
<td>SOC 101 Intro To Sociology</td>
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<tr>
<td>UH 155 Freshman Seminar</td>
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GSC emphasis area courses

Select 6 hours of the following:

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<th>Course</th>
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<td>AMS 231 Contemporary America</td>
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<td>ANT 412 Peoples of Europe</td>
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<td>ANT 413 Peoples of Latin Amer</td>
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<tr>
<td>ANT 438 Anthropology of Art</td>
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<td>BEF 360 or Social Psychol Foundtms Educ</td>
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<td>BEP 360 Social Psychol Foundtms Educ</td>
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College of Continuing Studies
Division of Academic Outreach

More than ever before, students are choosing distance education to pursue their college degrees. The Division of Academic Outreach strives to facilitate University degree programs to adult learners who are limited by time, geography, work schedules or personal obligations. Students may choose from formats that will fit their schedules and learning styles such as online, interactive video conferencing, weekend classes, or online video-streamed classes. All degrees are conferred by the appropriate academic college.

For more information on these programs, write to The University of Alabama, College of Continuing Studies, Division of Academic Outreach, Box 870388, Tuscaloosa, AL 35487-0388. You may also call 205-348-0089 or toll free 800-467-0227, or e-mail uadistance@ua.edu. Visit the Bama by Distance website for more information.

Online Courses
Academic Outreach delivers courses online. Students are instructed through a secure Internet site, where they interact with their professors and other classmates online.

Video Courses
Academic Outreach delivers undergraduate and graduate courses via online video streaming to students who cannot attend classes on campus. Lectures are recorded as they occur and streamed via the internet the same day. Students complete the same course requirements as on-campus students and take proctored exams at convenient sites. Video courses are offered in the College of Engineering.

New College Life Track

The New College LifeTrack (NCLT) program is an interdisciplinary undergraduate distance learning program for adults whose educational needs cannot be met through traditional residential programs. Previously earned academic credits transferred from regionally accredited colleges or earned through national tests such as the College-Level Examination Program (CLEP), independent studies, out-of-class learning contracts, correspondence studies, classroom work and demonstrated prior learning may be applied toward a bachelor of arts (BA) or bachelor of science (BS) degree in interdisciplinary studies.

The NCLT program is intended to serve adult students whose opportunities to use currently available educational resources may be limited. Applicants must have high school diplomas or minimum General Education Development (GED) equivalency scores of 50, be 25 years of age or older and have educational goals attainable through the program. Applicants need not be Alabama residents. The degree is awarded through the College of Arts and Sciences.

For more information or to obtain a catalog and application, please call 800-452-5971 or visit LearnOn.ua.edu. For specific NCLT curriculum requirements, please refer to the College of Arts and Sciences New College (p. 1032) section of this catalog.
Intercampus Interactive Telecommunication System (IITS)
The Intercampus Interactive Telecommunication System (IITS) is a network of conference rooms connected to a statewide videoconferencing network. Sites throughout Alabama are equipped with cameras, monitors and other devices that allow teachers and students to interact as if they were in the same room. Presenters use traditional visuals, such as PowerPoint presentations, overheads and videotape/DVD, as well as digital options unique to IITS.

Weekend College
Designed to meet the needs of both part-time and full-time students, Weekend College offers a number of courses in the fall, spring and summer semesters on Friday evenings and Saturday mornings and afternoons. Scheduling weekend classes is especially convenient for part-time students who would like to pursue academic studies while working.

Gadsden Education and Research Center
Established in 1946, The University of Alabama’s Gadsden Education and Research Center is an off-campus program serving residents of northeast Alabama. The center offers graduate coursework for credit, noncredit programs for professional development and test services, as well as serving as a liaison to the University’s main campus.

Currently the center offers six complete graduate degrees in education, including a master’s degree leading to Class A certification, an educational specialists degree leading to Class AA certification and doctoral programs. Graduate-level courses in library studies are also available through a degree program offered by the College of Communication and Information Sciences. For more information, please call (256) 546-2886 or 1-888-223-4131, or visit gadsden.ua.edu.

Evening Program
The Evening Program offers classes at times convenient for working adults. Students unable to continue their education in the traditional format (day classes) may complete degrees in business, geography and criminal justice through this program. Many other courses from the College of Arts and Sciences, the Culverhouse College of Business, the College of Communication and Information Sciences, the College of Human Environmental Sciences and the School of Social Work are offered after 5 p.m. Monday through Thursday.

Bama By Distance Student Services
Bama By Distance Student Services provides a University wide point of entry for students returning to campus or entering the University for the first time that wish to complete their degree via distance. Services provided include:

- assisting prospective, current, and returning students with the application process for admission into a distance learning program
- providing an online orientation for all distance students
- administrating test proctoring services for distance students (virtual, off-campus, and in our on campus testing services office)
- overseeing all College of Continuing Studies scholarships and grants for distance students
- serving as a point of contact for all military students with questions regarding distance degree programs, tuition assistance, and military benefits

For more information, contact Bama By Distance Student Services at uadistance@ua.edu, 800-467-0227 or (205) 348-0089, or visit BamaByDistance.ua.edu.

Required Disclosure Statements

Alaska
Distance education programs are exempt from authorization requirements in the state of Alaska under AS 14.48

California
The University of Alabama is not under the purview of the California Bureau of Private Postsecondary Education.

District of Columbia
Education Licensure Commission of the Office of the State Superintendent of Education in Washington, D.C. granted The University of Alabama required conditional exemption to offer its programs to residents of the District.

Georgia
The University of Alabama is authorized under the Nonpublic Postsecondary Education Institutions Act of 1990

Indiana
This institution is authorized by: The Indiana Board for Proprietary Education, 101 W. Ohio St., Ste 670, Indianapolis, IN, 46204-1984

Louisiana
The University of Alabama is currently licensed by the Board of Regents of the State of Louisiana. Licensed institutions have met minimal operational standards set forth by the state, but licensure does not constitute accreditation, guarantee the transferability of credit, nor signify that programs are certifiable by any professional agency or organization.

Minnesota
The University of Alabama is registered as a private institution with the Minnesota Office of Higher Education pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

Nevada
The University of Alabama is licensed to provide experiential training in Nevada.

Texas
The University of Alabama is licensed under the Nonpublic Postsecondary Education Licensure Commission of the Office of the State Superintendent of Education in Washington, D.C. granted The University of Alabama conditional exemption to offer its programs to residents of the District.

Washington
The University of Alabama is authorized by the Washington Student Achievement Council and meets the requirements and minimum educational standards established for degree granting institutions under the Degree-Granting Institutions Act. This authorization is subject to periodic review and authorizes The University of Alabama to offer field placement components for specific degree programs. The Council may be contacted for a list of currently authorized programs. Authorization by the Council does not carry with it an endorsement by the Council of the institution or its programs. Any person desiring information about the requirements of the act or the applicability of those requirements to
the institution may contact the Council at P.O. Box 43430, Olympia, WA 98504-3430.

English Language Institute

Intensive English Program
The ELI Intensive English Program (IEP) is designed for individuals who need to learn English as a second language. The program focuses on preparing students for academic success, both in English-language proficiency and cultural awareness, for undergraduate and graduate study at The University of Alabama.

Six levels of study, from beginning to advanced, are available. Each level consists of a minimum of 20 hours of class per week. Sessions lasting six-eight weeks are available six times per year in January, March, May, June, August, and October. Students may begin their English study at the beginning of any one of these sessions.

An ELI student wishing to enter an undergraduate degree program at The University of Alabama may meet UA's English proficiency requirements either by obtaining the required TOEFL or IELTS score or by completing Level 6 with a minimum GPA of 3.0 in Levels 4, 5, and 6. Conditionally admitted students who meet certain conditions may become eligible to enroll in credit-bearing courses while completing their ELI program of study. In such cases, the number of UA courses that an eligible student may take is determined by the ELI.

Students who apply for admission to UA and meet the academic and financial qualifications to enter the University but do not meet the English proficiency requirements may be admitted conditionally. Such students will not be eligible to begin an academic program and will be required to register for full-time or part-time study in ELI until they meet the English proficiency requirement as outlined above.

For more information, visit http://international.ua.edu/eli.

Pathway to UA
Pathway to UA is an undergraduate conditional-admission program for students who:

- Want to earn a bachelor’s degree at UA
- Meet the academic qualifications for undergraduate admission at UA
- Are non-native English speakers who do not have the required minimum proficiency in English
- Want to take courses for academic credit while completing the English requirement

For more information, visit http://international.ua.edu/eli.

Semester Abroad at UA
Semester Abroad at UA is a one semester (or longer) undergraduate study-abroad program for students who:

- Are enrolled in a university outside the USA
- Want to study abroad and earn academic credit at The University of Alabama
- Are non-native speakers of English who want to earn academic credit, improve their English, and experience living and studying on the UA campus

For more information, visit http://international.ua.edu/eli.

Academic Support Program
The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the graduate level, ESL support courses in written and spoken English are available free of charge to full-time international graduate students each fall and spring semester. In addition, the ELI Study Center and the UA Language Resource Center are available for individualized language assistance.

For more information, visit http://international.ua.edu/eli.

International Teaching Assistant Program
The International Teaching Assistant Program (ITAP) provides training and evaluation for international students with graduate teaching assistantships. Participation in the ITAP program is mandatory for all non-native English-speaking GTAs and graduate assistants who have instructional responsibilities at the University.

For more information, visit http://international.ua.edu/eli.

English + Business Program
The English + Business Program is a four-week certificate program for students who want to improve their English and learn about business concepts and practices in the United States. The program is offered twice each year at the beginning of each fall semester and spring semester. In order to benefit fully from the program, it is strongly recommended that participants have an intermediate or advanced level of English proficiency.

For more information, visit http://international.ua.edu/eli.

Customized Group Programs
ELI Special Programs consist of a variety of programs designed for groups of participants with mutual goals and concerns who desire highly specialized, intensive curricula. Such programs are typically designed for international English teachers, students whose international universities have approved given curricula for credit, international graduate students preparing to enter universities throughout the United States, and business professionals who wish to improve their overall effectiveness in English or to concentrate on specific skills such as written communication.

An organization wishing to participate in such a program should clearly define the goals of its group and keep in mind that program enrollments typically require a minimum of 10 participants. Financial sponsorship for the above programs may come from ministries of education, embassies, corporations, private philanthropic organizations, U.S. or other government sponsoring agencies or the individual participants themselves. Programs may be offered at any time of the year and typically range in length from two to six weeks.

For more information, visit http://international.ua.edu/eli.

Contact the ELI
To obtain more information about any of the above ELI programs, contact The University of Alabama English Language Institute, visit the ELI website (eli.ua.edu) or contact the ELI at Box 870250, Tuscaloosa, AL 35487-0250; telephone 205-348-7413; fax 205-348-9266; or email info@eli.ua.edu.

Honors College
The Honors College serves its students through the core Honors experience and other specialized programs, including the Randall Research Scholars Program (p. 922) and the University Fellows Experience (p. 924). The Honors College also works collaboratively with other colleges to create unique partnerships and departmental honors programs throughout the University, allowing Honors students to major in any discipline and adding to the diversity of the Honors experience. The minor in Educational Studies, housed in the College of Education, is a non-certification/licensure program designed specifically for Honors College students who are interested in educational issues but who are not education majors.

Honors College facilities in Nott Hall include administrative, faculty, and student offices; a reception area; multiple seminar and conference rooms; an Honors College student lounge; a lounge for the University Fellows Experience; and a suite and computer lab for the Randall Research Scholars Program. The Honors College has multiple residence halls that are an important facet of a strong Honors community, providing spaces for group study and engagement. The majority of the Honors residence halls are coeducational, suite-style facilities and feature several Honors faculty-in-residence members in addition to Honors residential assistants.

Honors College students have access to Honors housing, and entering freshmen have the opportunity to attend Honors summer orientation sessions. After the first semester, Honors College students will be given priority registration over students who share the same student classification (senior, junior, sophomore, freshman). Honors courses are noted on the official transcript, and completing the Honors College requirements is noted on both the transcript and official graduation documents.

For more information about the Honors College, contact The University of Alabama Honors College, 288 Nott Hall, Box 870169, Tuscaloosa, AL 35487-0169; call 205-348-5500; or visit honors.ua.edu.

**Honors College Experience**

The foundation of the Honors College is the Honors experience which provides students with an enhanced academic curriculum and the ability to work with their peers and outstanding faculty members in an enriched academic environment. The Honors experience does not constitute a major or a minor, but most Honors courses fulfill core curriculum requirements which allows students to pursue their degrees within an Honors framework. University Honors (UH) courses are the foundation of the Honors experience and often can be used to satisfy general education requirements. The majority of UH classes are limited in enrollment to a maximum of 15 students and are open to all Honors College students as well as students who share the same student classification (senior, junior, sophomore, freshman). Honors courses are noted on the official transcript, and completing the Honors College requirements is noted on both the transcript and official graduation documents.

For more information about the Honors College, contact The University of Alabama Honors College, 288 Nott Hall, Box 870169, Tuscaloosa, AL 35487-0169; call 205-348-5500; or visit honors.ua.edu.

**Honors Requirements**

**Admission Requirements**

The requirements for admission to the Honors College are a 30 ACT/1390 SAT and a 3.5 high school GPA or higher. Because of our commitment to meeting the needs of students from within the state, Alabama high school graduates have another path to admission if they are within the top 5 percent of their class and have at a 28 ACT/1310 SAT (new) or higher and a 3.5 or higher GPA.

Although there is no formal deadline to apply to the Honors College, incoming freshmen should apply as soon as possible to facilitate registration for Honors Housing and Honors Orientation. All eligible students who apply after the course registration deadline for a semester will be admitted for the following semester.

Current UA Students admitted as full-time undergraduates with at least 12 UA hours and a minimum 3.3 overall GPA and Incoming Transfer Students with at least 12 overall hours and a minimum 3.3 overall GPA will be accepted to the Honors College upon submission of their applications. All students who apply with more than 25 hours are required to draft a plan to finish all honors coursework prior to admission. Students will be notified of their acceptance via email.

For students interested in our selective programs, please view the requirements for the Randall Research Scholars Program and for the University Fellows Experience.

**Retention Requirements**

**Honors Year One**

The University of Alabama Honors College has one overarching goal: to help exceptional students reach their potential. Creating opportunities for students their first year on campus is a critical part of our mission. Honors Year One is student-directed programming that helps new students engage with their fellow students and with faculty; discover opportunities and interests; and participate in areas of service. Special events, academic opportunities, and other first year-only events address the unique needs of the newest members of the Honors College.

Because of the importance of engaging with the Honors College from the beginning of each student’s academic career, beginning with the freshman class of 2017, all Honors College students will be required to participate in an Honors Year One experience during their first year. HYO experiences engage students with fellow students and with faculty and foster deeper, more meaningful connections to Honors. The University of Alabama Honors College has one overarching goal: to help exceptional students reach their potential. Creating opportunities for students their first year on campus is a critical part of our mission. Honors Year One is student-directed programming that helps new students engage with their fellow students and with faculty; discover opportunities and interests; and participate in areas of service. Special events, academic opportunities, and other first year-only events address the unique needs of the newest members of the Honors College.
Honors College classes and experiences that fulfill the HYO requirement include:

- **UH 100 Honors Year One**: All Honors Connection Courses are one credit and Pass/Fail. They fulfill one "UH Foundation Course" requirement.
- **UH 102 Freshman Common Book Experience**: All Freshman Common Book courses are one credit and graded. They fulfill one "UH Foundation Course" requirement.
- **UH 103 Honors Action**: All Honors Action Programs are one credit and Pass/Fail. They fulfill one "UH Foundation Course" requirement.
- **UH 155 Freshman Seminar**: All Honors Freshman Seminars are graded and fulfill "Humanities" Core Requirements (HU) AND "UH Foundation Course" requirements.
- **Students must receive a grade of “C” or better in a graded course or a Pass in a P/F course in order for the course to fulfill the HYO requirement.**

Additional Retention Requirements

Overall GPA and course completion are monitored each semester. Honors College students who drop below a 3.3 overall GPA will be put on probation. Failure to earn a 3.3 GPA the following semester will result in suspension from the Honors College. Suspended students may be reinstated by contacting the Honors College after their overall GPA increases to at least a 3.3.

Honors College students must complete Honors coursework at a proportional rate to overall degree completion relative to time of admission. Students whose rate of completing Honors coursework falls significantly behind their rate of overall degree completion will be temporarily suspended pending an approved plan to finish Honors coursework.

All Honors requirements are subject to change, and exceptions to the requirements for special circumstances exist. *For more information and up-to-date requirements, visit honors.ua.edu.

Honors Credit

University Honors (UH) courses are the foundation of the Honors experience and often can be used to satisfy general education requirements. Most UH classes are limited in enrollment to a maximum of 15 students and few have prerequisites. Professors in UH courses stress the development of critical, analytical, and interpretive skills.

Departmental honors courses seat only Honors students and have limited enrollments in order to maximize interaction between students and faculty. Various departments offer these classes and regularly assign their best teachers to Honors sections, seeking to encourage Honors students to major or minor in their disciplines. All graduate level courses (500 and above) offered by departments count as Honors credit as well, once the Honors College is notified after course completion.

The Honors by Contract option allows Honors College students to make certain departmental courses at the 300- or 400-level count for Honors credit. In order to earn Honors credit, the student must collaborate with a supervisor to create an additional assignment or learning element that raises the course to Honors level work. Students must earn at least a "B" grade on the extra assignment and can apply no more than six hours of Honors by Contract courses toward the Honors College requirements.

Independent study allows students to pursue self-directed study in a subject area chosen by the student in consultation with a qualified supervisor. Self-directed studies often lead to conference presentations, publications and other experiences unique to the student's interests.

Students who wish to take UH 400 must first satisfy a three (3) credit prerequisite of Honors Foundation courses at the "UH" designated 100, 200, or 300 level.

The Honors Thesis option allows students to undertake thesis research and writing for class credit and can be completed through the Honors College or a departmental honors program.

Graduation Requirements

To complete the requirements of the Honors College, all students are required to earn at least 18 hours of Honors credit. Six credits out of the 18 must be in "UH" designated courses (also known as Honors Foundation courses) and graduate with an overall GPA of at least 3.3. Students must apply for graduation with the Honors College in addition to their official UA graduation application in order to have Honors designations displayed on their transcript and official graduation documents.

**RRS101 Randall Research Scholars Freshman Seminar 1**

**UH**

Hours 4

Taken by first-year students in the Randall Research Scholars Program, this course provides an accelerated introduction to computer hardware and software. Open only to students admitted to the Randall Research Scholars Program.

University Honors

**UH100 Honors Year One**

**UH**

Hours 1-3

This course is a discovery-based partnership in which incoming freshmen will engage with current Honors College students to help find their place and transition into a collegiate environment. The ultimate goal for each student that participates in Honors Year One is to be exposed to the fundamental ideals of the Honors College, including innovative scholarship, advanced research, cultural interaction, and civic engagement.

University Honors

View All Courses

**Faculty**

**Dean**

Dr. Shane Sharpe

**Associate Dean**

Dr. Jacqueline Morgan

**Assistant Dean**

Dr. Ross Bryan

**Associate professor**

Dr. Bradley Tuggle

**Founding Dean Emeritus**

Dr. Robert Halli

**Instructors**

Dr. Darren Surman

Dr. Paul Phelps

Dr. Thomas Herwig

Dr. John Latta
The Catherine J. Randall Research Scholars Program (RRSP) is designed to provide exceptional, highly motivated students from any college, major and field of study the opportunity to conduct scholarly research with top faculty members.

Students are accepted in the program at the beginning of their freshman year. During their freshman year, students complete an intensive series of courses on technology fundamentals, problem solving, project management and research fundamentals. These essential skills enable students to quickly learn and adapt to new knowledge domains and technical environments required for faculty-directed research projects. During their second, third and fourth years at the University, students select research projects and apply these skills by serving as research assistants to faculty project sponsors. They receive 3 hours of credit each semester for this research work and meet once a week to discuss research methods and issues, report on projects and present details of their project to diverse audiences. The Randall Research Scholars Program constitutes an academic minor for those students completing its requirements, and the classes count toward the 12-hour Honors College Elective requirement.

A number of full or partial tuition fellowships are available to selected students in the program who are chosen during their senior year in high school.

All Honors College–eligible incoming freshmen are invited to apply to the Randall Research Scholars Program.

To complete the requirements of the Randall Research Scholars Program, students must complete both RRS 101 RRS Freshman 1 and RRS 102 RRS Freshman 2, four 3-credit-hour research projects that combine research with computer applications and maintain an overall GPA of 3.3.

For more information, contact The University of Alabama Honors College, Randall Research Scholars Program, Box 870169, Tuscaloosa, AL 35487-0169; (205) 348-5500; honors.ua.edu.

**Randall Research Scholars Program Course List**

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**Total Hours**

| 26 |

**Faculty**

**Director**
Dr. Shane Sharpe

**Program Manager**
Jane Batson

**Instructor**
Darren Evans-Young

**Departmental Honors Programs**

The Honors College works in conjunction with a host of academic departments on campus to provide and develop discipline-specific departmental honors programs. These programs allow Honors College students to pursue their major course of study within an Honors framework. Honors College students must be accepted into the respective programs associated with their degree plan. Each department has separate requirements for its programs which are subject to change, and students should speak with the respective department for the most up-to-date requirements. All non-Honors students who wish to participate in a departmental honors program must be granted an exception by the individual department.

**Biological Sciences**

Students majoring in one of the biological sciences are eligible for consideration for the honors program in biological sciences after they have completed at least 16 hours in biological sciences with a minimum grade point average of 3.4 in biological sciences and a cumulative grade point average of 3.4. Acceptance into the program requires approval of the Honors Program Committee and acceptance of the student by
primary advisers and co-advisers. Additional details are available in the office of the department of biological sciences. Requirements for the program include:

- 4-8 hours of PY 101 Intro To Psychology
- an acceptable honors thesis
- attendance in PY 211 Elem Statistical Methods
- taking the advanced portion of the Graduate Record Examination
- maintenance of a 3.4 GPA in biological sciences courses and a 3.4 cumulative GPA

**Business Honors Program**

Business Honors Program students in the Culverhouse College of Business participate in weekly one-hour seminars conducted by the Business Honors director and core faculty. The sessions feature meetings with outstanding faculty and business leaders and discussions of contemporary business and economic issues.

Those students who complete the two-year program will earn Honors credit for selected business classes and will graduate with Business Honors recognition. Participation is limited to Culverhouse College of Business students who have completed 61 or more semester hours of classwork and have at least a 3.5 cumulative GPA.

**Chemistry**

Students are invited to apply for admission into the Chemistry Honors Program on the basis of performance in introductory chemistry courses. Inquire at the Department of Chemistry office for further details. Requirements for the program include:

- completion of course requirements for the BS degree with a major in chemistry
- maintenance of at least a 3.3 GPA in chemistry courses, with no more than one C, and a cumulative 3.0 GPA for all coursework
- participation in PY 101 Intro To Psychology, PY 211 Elem Statistical Methods and HY 499 Honors Thesis II
- submission of an acceptable senior thesis based on research conducted under supervision of a chemistry department faculty member
- submission of scores on the Graduate Record Examination or other appropriate examination prior to graduation

**College of Engineering**

The University of Alabama College of Engineering offers departmental honors programs for each primary academic department. Program requirements differ for each department but generally result in a certificate of completion. Current requirements and information for each program can be found below:

- Aerospace Engineering and Mechanics
- Chemical and Biological Engineering
- Civil, Construction, and Environmental Engineering
- Computer Science
- Electrical and Computer Engineering
- Mechanical Engineering

**English**

Any English major with a superior aptitude for and a special interest in English may apply for admission to the honors program in English.

The program includes special honors sections of sophomore literature courses, eligibility for the Junior Honors Seminar in English and an Honors Thesis. The Honors Seminar in English (PY 101 Intro To Psychology) gives students an opportunity to experience a course which cuts across conventional divisions of literary period and literary form. The Honors Thesis (PY 211 Elem Statistical Methods) affords students the opportunity to work with faculty mentors who will guide them in readings, research, and selection of a suitable topic for the thesis. Interested students should contact the coordinators of the Departmental English Honors Program.

**Geological Sciences**

Geology majors are invited to apply for admission to the Geological Sciences Honors Program after completion of 13 hours of geology coursework. Requirements for the program include:

- completion of the course requirements for the BS or BS in geology degree
- maintenance of a minimum 3.3 GPA in geology courses and a 3.0 GPA or higher for all coursework
- grade of "pass" in PY 101 Intro To Psychology and PY 211 Elem Statistical Methods
- six hours of HY 499 Honors Thesis II and presentation of the results in the honors seminar
- submission of an acceptable honors thesis based on research conducted under the supervision of a geological sciences department faculty member

**History**

The History Honors Program is open to history majors who have a cumulative GPA of at least 3.0, a 3.3 GPA or above in history and at least 12 hours of completed history courses. The program requires nine hours of honors work, including PY 101 Intro To Psychology (usually taken in the junior year) and a six-hour thesis (PY 211 Elem Statistical Methods and HY 499 Honors Thesis II) to be completed under the direction of a tenured or tenure-track member of the department. In order to graduate with honors in history, students must have a cumulative GPA of at least 3.0, a 3.3 GPA or above in history, and satisfactory completion of a thesis judged to merit an honors designation.

**Philosophy**

The honors program in philosophy is designed for the exceptional student, regardless of whether the student intends to do graduate work in philosophy. The program offers the opportunity to pursue a philosophical topic further than the seminar format permits. It also provides recognition for having done a greater proportion of one's classes at the advanced level and for having sustained outstanding achievement in all cases. Students wishing to enroll in the program may request consideration for admission from the undergraduate adviser or the department chairman, or they may be invited to enroll.

Those who graduate with honors in philosophy must meet the following requirements:

- complete 36 hours in philosophy
- complete at least 18 of those hours at the 300- or 400-level
- achieve a GPA of at least 3.5 in all courses in philosophy and at least 3.3 cumulative GPA
- write and be examined on a substantial philosophical essay under the direction of a faculty member in the department
Physics
Students are invited to apply for admission to the honors program in physics on the basis of performance in introductory courses. Inquire at the Department of Physics and Astronomy office for further information. Requirements for the program include:

- completion of the course requirements for the BS degree with a major in physics
- maintenance of a minimum 3.3 GPA in physics courses and a minimum 3.0 GPA for all coursework
- submission of an acceptable honors thesis based on research conducted under the supervision of a faculty member in physics or astronomy
- participation in the one-hour senior-level honors physics seminar, PY 101 Intro To Psychology

Psychology
The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities that prepare them for graduate training in psychology. The two-year program is research-oriented and involves interaction with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent upon submission of an independently conducted research project equivalent in quality to a master’s thesis.

Psychology majors who are in the second semester of their sophomore year with nine hours of completed coursework in psychology (including PY 101 Intro To Psychology, PY 211 Elem Statistical Methods, and a 300-level course) may apply for admission to the psychology department honors program. A completed application and interview by the departmental honors committee are required before acceptance. To be accepted a student must have at least a 3.3 GPA in psychology coursework and a 3.0 cumulative GPA or higher. However, meeting these minimum requirements does not guarantee admission.

Unique Partnerships
The Honors College partners with departments across the institution to provide enhanced experiences for Honors College students. These unique partnerships afford Honors College students the ability to engage in programs and initiatives that maximize their potential while earning Honors credit. Students may apply for these programs after being accepted into the Honors College and must remain in the Honors College to take advantage of the opportunities.

Following the basic principles of the existing Manderson MBA degree, the STEM Path to the MBA focuses on attracting high-quality undergraduate students majoring in science, technology, engineering and math disciplines. The program offers an innovative approach to engage students early on as undergraduates and leverage non-traditional instruction delivery methods to allow top students to complete the MBA in one additional calendar year. The primary purpose of the path is to provide high-achieving students with the business knowledge needed to successfully manage STEM businesses.

The STEM Path targets high-quality, incoming freshmen who have chosen to major in STEM disciplines at UA. Applicants who hold a minimum high-school GPA of 3.5 and a minimum ACT score of 28 will be offered early admission to the MBA program. During the junior year, students will apply for admission to the Graduate School for the MBA program.

Students are admitted conditionally (at the end of the junior year) into the graduate MBA program if they achieve a 3.3 overall undergraduate GPA, complete the undergraduate degree in a STEM discipline, and achieve a score of 650 or better on the GMAT or 1300 or better on the GRE prior to completion of their undergraduate degree. To be finally admitted for graduate study, students must be accepted into the MBA program and reach UA requirements of a 3.3 undergraduate GPA and a GMAT score of 650 or GRE score of 1300.

During each semester of their four years of undergraduate study, students enroll in a 1.5-credit hour STEM Business Honors course. These honors courses focus on communication and leadership skills and provide students with the opportunity to work in teams on community projects. The goal is to develop an appreciation and understanding of the importance of management skills in science and technology careers and create an opportunity to network with other students, managers and executives from technology companies, as well as MBA faculty.

During the summer following the completion of 91 hours, and upon admission into the Graduate School, students complete 9 hours of online business courses. Upon completion of the undergraduate degree, these 9 credit hours count toward the MBA degree. With the 3 credit hours of STEM Business Honors coursework achieved during the last year of undergraduate study, this is a total of 12 hours of credit counting toward the MBA degree.

University Fellows Experience
Following the classical purpose of education — the production of good citizens — the University Fellows Experience (UFE) strives to prepare the most able and dedicated students at The University of Alabama for lives of leadership in and service to their community, state, nation and world.

Chief components of the UFE include:

- mentoring by top University of Alabama faculty members
- a team-built atmosphere of support and stimulation
- interaction with cutting-edge experts in all fields
- engagement in important cultural, social and scientific enterprises
- service to the community
- assistance in applying and competing for prestigious scholarships, graduate and professional schools, professional internships and career positions
- scholarship support

Stages of the University Fellows Experience
Throughout the freshman year, Fellows are encouraged and challenged to develop their interests and passions through on-campus and community involvement. Freshman Fellows develop their own skills, gifts and passions while exploring what leadership means in a variety of contexts.

Throughout the sophomore year, Fellows realize passions, hone leadership skills and put service theories into practice. Sophomore Fellows expand their interests in their academic field, on campus and in the community, through purposeful involvement.

Throughout the junior year, Fellows focus their passions and involvement on and off campus while exploring career options and post-undergraduate opportunities. Junior Fellows explore current developments in their field while acting as leaders and mentors to their younger Fellow cohorts and peers.
Throughout the senior year, Fellows continue to distinguish themselves in their fields of study, receive guidance in finalizing post-undergraduate plans and give back to the UFE community in unique teaching and leadership positions.

The University Fellows Experience constitutes an academic minor entitled “Social Innovation and Leadership,” for those students completing its requirements. The classes count toward the 18 total hours needed to complete the requirements of the Honors College.

## Admission and Graduation Requirements

Acceptance into the UFE is extremely competitive. A student with a composite ACT score of at least 32 or a SAT score of at least 1400 (verbal and quantitative) and a high-school GPA of at least 3.8 who is accepted into UA by the UFE application deadline will be invited to apply for the University Fellows Experience. A student eligible for the Honors College (minimum 28 ACT/1250 SAT and 3.5 high-school GPA) may be nominated for the University Fellows Experience by a high-school counselor or a UA faculty or staff member. The UFE selection committee will consider a candidate’s records of academic, extracurricular, service and leadership achievements more heavily than grades and test scores.

To complete the requirements of the Social Innovation and Leadership minor, students must complete a total of 18 credit hours and maintain an overall GPA of 3.3.

### Social Innovation and Leadership Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UFE 101</td>
<td>Understanding Poverty</td>
</tr>
<tr>
<td>UFE 102</td>
<td>Social Investing and the Role of Innovation</td>
</tr>
<tr>
<td>UFE 201</td>
<td>Systemic Change Through Social Entrepreneurship</td>
</tr>
<tr>
<td>UFE 202</td>
<td>Social Innovation for Collective Impact</td>
</tr>
<tr>
<td>UFE 301</td>
<td>Leadership and Change: A Global Perspective</td>
</tr>
<tr>
<td>UFE 302</td>
<td>Making an Impact in a Global Society</td>
</tr>
<tr>
<td>UFE 350</td>
<td>Black Belt Experience</td>
</tr>
<tr>
<td>UFE 400</td>
<td>Magnum Opus Experience</td>
</tr>
<tr>
<td>Total Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

### Contact

For more information, contact The University of Alabama Honors College, University Fellows Experience, Box 870169, Tuscaloosa, AL 35487-0169; (205) 348-5500; honors.ua.edu.

**Faculty**

**Director**
Dr. Jacqueline Morgan

**Coordinator**
Stephanie Brewer

## Military Programs

- Air Force Studies (Air Force ROTC) (p. 925)
- Officer Training Corps Studies (Army ROTC) (p. 926)

### Air Force Studies (Air Force ROTC)

The program in Air Force Studies affords students opportunities to learn about the United States Air Force and its role in national security while exploring the opportunity to earn an Air Force officer’s commission concurrent with a college degree. Freshman and sophomore courses are open to all students and incur no military obligation. The courses are fully accredited, one-hour electives. To enroll in Air Force ROTC, a student simply registers for a course in Air Force Studies. Air Force ROTC courses are currently not offered through distance learning.

#### Officer Training Corps Studies (Army ROTC)

Army ROTC is a college elective that focuses on leadership and management skills. The ROTC program consists of the Basic Course and the Advanced Course. The Basic Course provides college students the opportunity to learn about and experience the U.S. Army without incurring any military obligation during their freshman and sophomore years. The Advanced Course prepares juniors, seniors and graduate students for commissioning as officers in the active U.S. Army, U.S. Army Reserve or Army National Guard. Army ROTC courses are currently not offered through distance learning.

**Faculty**

**Lieutenant Colonel**
Mark E. Valdez, Lt Col, USAF Commander and Professor of Aerospace Studies

**Lt Col**
LTC Antwan D. Brown, Department Chair and Professor of Military Science

### Air Force Studies (Air Force ROTC)

Air Force ROTC prepares young men and women to become officers in the U.S. Air Force, but it’s also much more. Students grow mentally and physically as they acquire strong leadership skills that will benefit them not only in the military but in life. They’ll develop lifelong friendships and have unique experiences. Plus, unlike many college students, Air Force ROTC students have a management position waiting for them after graduation in one of the world’s top high-tech organizations—the U.S. Air Force. Air Force ROTC is a college-level program that augments a student’s academic degree program and focuses on developing top quality leaders. ROTC courses are considered electives for which students receive academic credit.

To become Commissioned Officers in the U.S. Air Force through AFROTC, students must enroll in the three- or four-year program that includes registering for Air Force Studies academic courses and leadership laboratory, participating in physical training and meeting other military eligibility criteria. Although the three-year program is available, it is competitive; therefore, it’s a good idea for students to enroll in AFROTC at the same time they enroll in their first college courses (freshman year).

If students are not sure they want to become commissioned officers in the Air Force, they can try out the program. They will have people challenging and helping them to accomplish their personal best in academics and physical fitness. Whether a student is just trying the program out or he or she has the desire to commission, there is no commitment to the Air Force when enrolling in the program.

Students are furnished uniforms and other necessary items through the AFROTC supply officer. At the end of the academic year or upon a student’s withdrawal, uniforms and all other supplies must be returned to AFROTC within 72 hours. Uniforms must be dry cleaned prior to turn in. Students who fail to return required items to the detachment will receive a “hold” on their student account until all items are returned.
Faculty
Lieutenant Colonel
Mark E Valdez, Lt Col, U.S. Air Force ROTC Detachment 010 Commander and Professor of Aerospace Studies

Officer Training Corps Studies (Army ROTC)

Army ROTC is a college elective focusing on leadership and management skills. The ROTC program consists of the Basic Course and the Advanced Course. The Basic Course provides college students the opportunity to learn about and experience the U.S. Army without incurring any military obligation during their freshman and sophomore years. The Advanced Course prepares juniors, seniors, and graduate students for commissioning as officers in the active U.S. Army, U.S. Army Reserve, or Army National Guard.

Two-Year or Four-Year Program

The program in military science may be completed in either two or four years. The two-year program requires students to have a minimum of 54 semester hours and meet the qualifications to enter the Advanced Course. One of the following qualifications are required to enroll in the Advanced Course: Complete ROTC Basic Course, Cadet Initial Training, 4 Years JROTC, or Completion of Basic Training. All students entering the Advanced Course must be eligible to contract with the Army.

Basic Course

The Basic Course refers to freshman- and sophomore-level military science electives. Students wishing to enter the Basic Course simply register for one or more of the course electives. There is no military obligation incurred by taking these electives for freshman students or non-scholarship sophomores. The minimum electives necessary for completing the Basic Course follow:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL 110</td>
<td>1</td>
</tr>
<tr>
<td>MIL 111</td>
<td>1</td>
</tr>
<tr>
<td>MIL 120</td>
<td>1</td>
</tr>
<tr>
<td>MIL 121</td>
<td>1</td>
</tr>
<tr>
<td>MIL 210</td>
<td>2</td>
</tr>
<tr>
<td>MIL 211</td>
<td>1</td>
</tr>
<tr>
<td>MIL 220</td>
<td>2</td>
</tr>
<tr>
<td>MIL 221</td>
<td>1</td>
</tr>
<tr>
<td>MIL 335</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

Advanced Course

The Advanced Course consists of junior- and senior-level Military Science electives. The course requires students to take the electives in sequence, unless authorized by the professor of military science, and complete Advance Camp. Advance Camp is a paid, 32-day leadership evaluation course conducted at Fort Knox, Kentucky, during the summer between the junior and senior years. The Advanced Course consists of the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL 310</td>
<td>3</td>
</tr>
<tr>
<td>MIL 311</td>
<td>1</td>
</tr>
<tr>
<td>MIL 320</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

Army ROTC Scholarship Program

Army ROTC offers two-, three-, and four-year scholarships. The scholarships pay 100 percent resident or nonresident tuition, $1,200 per year for books, and a monthly tax-free stipend for 10 months of the year ($300 per month for freshmen, $350 per month for sophomores, $450 per month for juniors, and $500 per month for seniors). All enrolled cadets also are eligible to compete for a number of awards provided by alumni endowments, ranging from $200 to $1,000 per year. Army ROTC selects freshman scholars based on high school GPAs, ACT or SAT scores, class standing, extracurricular activities, and scholarship interviews. High school students can apply online for four-year scholarships at goarmy.com/rotc. The deadline for four-year scholarship applications is typically January 1.

Two- and three-year scholarship selections (undergraduates and graduate students) are based on college GPA, Army Physical Fitness Test scores, leadership potential, and scholarship interviews. Initial selections for two- and three-year scholarships are made in late April. Applications for campus-based scholarships are accepted year-round at the Military Science Department, 610 Capstone Drive, located adjacent to the Alabama Museum of Natural History. Interested applicants should contact the Army ROTC department at 205-348-1056 or via armyrotc.ua.edu/contact.

Army ROTC Stipend

All Army ROTC sophomores, juniors, and seniors who meet the eligibility requirements for contracting are eligible for a tax-free stipend for 10 months of the year ($350 per month for sophomores, $450 per month for juniors, and $500 per month for seniors). All enrolled cadets are also eligible to compete for a number of awards provided by alumni endowments, ranging from $200 to $1,000 per year. Army ROTC selects freshman scholars based on high school GPAs, ACT or SAT scores, class standing, extracurricular activities, and scholarship interviews. High school students can apply online for four-year scholarships at goarmy.com/rotc. The deadline for four-year scholarship applications is typically January 1.

Two- and three-year scholarship selections (undergraduates and graduate students) are based on college GPA, Army Physical Fitness Test scores, leadership potential, and scholarship interviews. Initial selections for two- and three-year scholarships are made in late April. Applications for campus-based scholarships are accepted year-round at the Military Science Department, 610 Capstone Drive, located adjacent to the Alabama Museum of Natural History. Interested applicants should contact the Army ROTC department at 205-348-1056 or via armyrotc.ua.edu/contact.

Degree Credit

All Army ROTC courses are fully accredited University classes. Credit for these courses can be applied toward elective credit or a minor in Civic Engagement and Leadership (CEL) through the College of Arts and Sciences. This minor consists of 19 semester hours, of which at least six hours must be 300- or 400-level courses. In addition, students must take PHL 292 Introduction to Ethics or PHL 221 Honors Introduction to Ethics and NEW 237 Cooperation & Conflict or NEW 238 Honors: Coop. & Conflict. Students may apply up to 12 semester hours of military science courses toward the civic engagement and leadership minor. It is recommended that Army ROTC cadets apply credit for MIL 310 Small Unit Tactical Leadership, MIL 320 Advanced Leadership Skills, MIL 410 Military Science IV and MIL 420 Military Science IV toward this minor and take PHL 292 Introduction to Ethics or PHL 221 Honors Introduction to Ethics and NEW 237 Cooperation & Conflict or NEW 238 Honors: Coop. & Conflict. This course of action provides 12 semester hours of credit toward the minor, meets the 300- or 400-level course requirements.
and provides core degree credit for a humanities course. For additional details, please contact the Military Science Department at 205-348-1056.

**Special Academic Programs**

- Accelerated Master’s Program (p. 927)
- Center for Ethics and Social Responsibility (p. 927)
- Cooperative Education Program (p. 928)
- National Student Exchange (p. 928)
- Special Academic Programs
- Cooperative Education Program
- National Student Exchange
- Accelerated Master’s Program
- Center for Ethics and Social Responsibility
- Special Academic Programs

**Accelerated Master’s Program**

The Accelerated Master’s Program is intended for gifted and highly motivated candidates for BA and BS degrees at The University of Alabama whose objectives include degrees at the master’s or doctoral level. In participating Accelerated Master’s departments, with a closely integrated undergraduate and graduate program, qualified students begin graduate study in their senior year; such a program may lead to simultaneous completion of requirements for both master’s and bachelor’s degrees, each within its specified framework.

Students in the Accelerated Master’s Program are classified as undergraduates until they complete requirements for their undergraduate degrees. Therefore, they may not hold graduate assistantships until their classifications are changed to graduate status. At that time, Accelerated Master’s will also become eligible for graduate fellowships and scholarships.

Any department that offers a graduate program may, with the approval of the dean of the Graduate School, participate in the Accelerated Master’s Program. A list of participating programs can be found at the Admission Criteria page (p. 11) of the Graduate Catalog under “Other Types of Admission”.

The following are minimum requirements; divisions or departments may set higher standards:

**Phase I**

Admission to Phase I is by invitation of the department and the dean of the Graduate School. Admission is chiefly determined by the faculty’s estimate of a student’s talents, motivation, and potential for graduate study. Students may also apply for admission to Phase I through their major department during the second semester of the sophomore year. Contingent upon completion of 61 semester hours of study and with a GPA in all courses taken of not less than 3.3 (as computed without the plus/minus system), students are admitted to Phase I at the beginning of their junior year on recommendation of the departments to which they have applied. During the junior year, students will take between four and six courses in their major field, as advised by their departments, to prepare them for the work of Phase II. Students seeking admission to Phase I will be informed by their departments if their admission requirements differ from those specified here.

**Phase II**

Admission to graduate study is also by invitation and is facilitated by, but not dependent upon, participation in Phase I. On completion of no fewer than 91 hours (ordinarily at the end of the junior year), students may apply for and be accepted for admission to the Graduate School. They must have a GPA of 3.3 or higher (as computed without the plus/minus system) in all courses. Transfer students are subject to the published residence regulations and must have completed the last 30 hours in residence. Admission to the Graduate School will be granted if the student has:

- met all the criteria above as well as other minimum requirements for graduate admission (see graduate.ua.edu)
- completed three-fourths of the hours required for the major and the minor
- met all requirements for the core curriculum
- been recommended by the department to which he or she is seeking admission (in special circumstances, departments may elect to invite an application and recommend acceptance of an applicant with a GPA of 3.0 or higher)

Upon admission to the Graduate School, the student will begin a program of study leading to the master’s or doctoral degree as approved by his or her department and by the dean of the Graduate School. The program of study for prospective Accelerated Master’s must be submitted to the Graduate School prior to the student’s enrollment in graduate classes.

The bachelor’s degree will normally be awarded at the commencement immediately following satisfactory completion of the first year of graduate study and attainment of a total of 128 semester hours of credit, or the minimum required by the college. Those courses taken in the senior year/first year of graduate study may count toward both the bachelor’s and graduate degrees.

No more than 15 hours may be dual-counted toward both the bachelor’s and graduate degrees. Interested students should check with their departments for specific coursework requirements. Participants in the Accelerated Master’s Program are exempt from the degree limit of 36 hours in a single department. The master’s or doctoral degree will be awarded upon satisfactory completion of the requirements for these degrees. In some cases, the bachelor’s and master’s degrees may be awarded simultaneously. However, the completion of the master’s degree may require an additional time period.

**Center for Ethics and Social Responsibility**

Stephen F. Black, Director
Office: 1710 Capital Hall
Believing The University of Alabama has a critical role to play in preparing students to serve as effective, engaged, and ethical citizens, the Center for Ethics and Social Responsibility (CESR) seeks to assist students in developing a distinct definition of moral and civic maturity, making the values and skills of citizenship a hallmark of a UA education.

The University of Alabama’s strong commitment to civic engagement and UA’s history of community-University partnerships serve as a foundation for the center. Faculty and students in a wide range of departments at UA have earned distinction for their scholarly contributions to the study of ethics and civic engagement. CESR builds upon these substantial resources, with the larger goal of linking curriculum and the campus culture by establishing multiple opportunities through which students can engage in meaningful service for academic credit while giving thoughtful consideration to their ethical obligations toward fellow citizens.

In particular, CESR staff assists faculty members in developing service-learning courses that engage community organizations in partnerships designed to both enhance academic learning and apply scholarly knowledge to salient community issues. Service experiences are integrated into students’ academic curricula, providing structured time for students to think, talk, and write about what they did and saw during the activities.
In seeking to better connect social responsibility and ethical development to the academic mission of the University, the work of CESR also entails the development of academic programs such as Moral Forum (a multidisciplinary course wherein students develop the skills to evaluate and respond to moral claims and engage in moral discourse via a debate tournament), as well as courses such as Documenting Justice (a yearlong, justice-based documentary film-making class), Every Move Counts: A Chess in Education Project (a nationally unique service-learning course in which Honors College students teach chess in local schools while studying creative education-reform efforts), College First (a service-learning course which trains college students to implement a pre-AP summer academic enrichment program for high school students while learning about equity and education), and Poverty, Faith, and Justice in America (a service-learning course that combines academic discussions on perceptions of poverty with volunteer tax preparation services for low-income families). CESR also is concerned with developing and supporting curricular activities that incorporate ethical and social discourse across campus.

CESR began in fall 2005 as a result of a gift from Mignon C. Smith. Concerned about what she perceived to be an increasing lack of ethics in business and public affairs, Ms. Smith sought to establish a university-based ethics program that would support the study of ethics and develop projects to nurture social responsibility and reflective, thoughtful citizenship. Under the leadership of the president and provost, and along with the help of an interdisciplinary group of UA faculty, this vision became CESR.

To learn more about CESR, contact cesr@ua.edu; call 205-348-6490; visit cesr.ua.edu or come into our office at 1710 Capital Hall.

Cooperative Education Program

Naomi Powell, Director
Office: 203 Hardaway Hall

In order to promote, encourage, and improve the education of students and to provide maximum service to industry, business, and government agencies, The University of Alabama offers qualified students opportunities to participate in the Cooperative Education Program, or co-op. Cooperative education is an academic program in which students alternate periods of full-time study with periods of full-time employment. This program offers work related to the academic major or career interests of each student, greatly enhancing the student’s employment prospects after graduation. It also gives the student a better understanding of the value of human relations, encourages the student to excel academically, and assists the student financially.

A student planning to enter the Cooperative Education Program should give particular attention to the entrance requirements of the University division he or she plans to enter. Generally, courses scheduled for the first year must be completed before a student may begin the first work period.

The University assumes primary responsibility for placing qualified students in available positions for the purpose of providing the best education possible. It is impossible, however, for the University to guarantee employment for all students in the Cooperative Education Program. Co-op students are currently working with a diverse group of employers at sites across the United States. Applicants are often matched with their co-op employers during Co-op Interview Days held each October and February.

For more information about the program, contact The University of Alabama, Director of the Cooperative Education Program, Box 870200, Tuscaloosa, AL 35487-0200; call 205-348-6422; or visit the co-op website.

National Student Exchange

The National Student Exchange (NSE) offers opportunities for students to broaden their educational experience through exchange programs with nearly 200 universities across the United States, Canada, Guam, Puerto Rico, and the U.S. Virgin Islands.

Through NSE, students may attend another member institution for a semester or academic year and pay that university’s in-state tuition. Students coordinate with their college registrar on course selection and credit transferability. Students should discuss their choice of courses with their advisor. Students must at least have sophomore standing and a 2.5 GPA or higher at the time of the exchange. Students receiving federally funded financial aid at UA can expect to receive similar aid from the host institution. With nearly 200 participating institutions and a 97 percent placement rate, students can generally find a location to meet both academic and personal objectives. However, a student’s first choice of a host school is not guaranteed.

For further information, visit our website, call our NSE coordinator at 205-348-3326, or come by the Office of the Dean of Students at 2500 Ferguson Center. The deadline for applications for each academic year (beginning with the fall semester) is February 15.

Capstone College of Nursing

The Capstone College of Nursing (CCN) awards the degree of Bachelor of Science in Nursing (BSN).

- Majors
  - Nursing (BSN) (p. 935)
  - Nursing (RN to BSN) (p. 932)

Standards of Conduct

The nursing student shall comply with legal, moral and legislative standards that determine unacceptable behavior of the nurse and that may be cause for denial of a license to practice as a registered nurse in accordance with Alabama law as stated below.

"The board shall have the power to deny, revoke or suspend any license issued by it or to otherwise discipline a licensee upon proof that he or she is guilty of fraud or deceit in procuring or attempting to procure a license; has been convicted of a felony; is guilty of a crime involving moral turpitude or of gross immorality that would tend to bring reproach upon the nursing profession; is unfit or incompetent due to personal habits; is habitually intemperate due to the use of alcohol or is addicted to the use of habit-forming drugs to such an extent as to render him or her unsafe or unreliable as a licensee; has been convicted of any violation of a federal or state law relating to controlled substances; is mentally incompetent; is guilty of unprofessional conduct of a character likely to deceive, defraud or injure the public in matters pertaining to health; or has willfully or repeatedly violated any of the provisions of this article as defined by board rules and regulations.” (Alabama Board of Nursing Administrative Code, September 1997)

Failure to comply with any of the above stipulations while in the nursing program constitutes grounds for dismissal from the program.

It is important for nursing students to know about the Alabama Board of Nursing’s regulations governing review of candidates for initial and continuing licensure eligibility. There will be questions on the application
to take the examination for licensure as a registered nurse that ask, “Have
you ever been arrested for or convicted of a criminal offense?” and, “Have
you ever been arrested for or convicted of driving under the influence
of drugs/alcohol?” Application to take the examination may be denied
on the basis of this review. Although these policies apply specifically in
Alabama, other states have similar stipulations for licensure.

### Essential Skills and Behaviors

See the Promotion Policies section of this catalog under Admission
Requirements (p. 929) to the Capstone College of Nursing.

### Hours and Grade Points

The student must complete a minimum of 126 hours\(^1\) of academic credit
approved by the Capstone College of Nursing to meet the requirements
for the degree of bachelor of science in nursing. Additional courses
may be necessary for students to meet the University Core Curriculum
requirements.

All coursework leading to the BSN degree, including electives, requires a
minimum grade of C-.

\(^1\) Any reference to hours indicates semester hours unless otherwise
noted.

### CPR Certification

Evidence of current certification as a professional-level provider of
cardiopulmonary resuscitation (CPR) is required for registration in all
clinical nursing courses. Students are responsible for obtaining and
maintaining current CPR certification while enrolled in the Capstone
College of Nursing. Certification must be renewed annually and verified
through presentation of a CPR card to the Office of Nursing Student
Services.

### Verification of Health Status

A health form must be completed prior to matriculation in the upper
division and prior to beginning senior-level courses if the student’s
health status has changed. The health form is available from the
Capstone College of Nursing ONSS and must be completed by a licensed
physician or a certified nurse practitioner. Students must also present
documentation of immunization against hepatitis B and other specified
communicable diseases prior to progressing to Semester II upper-division
courses and prior to the beginning of the senior year.

### Time Limit

If upper-division requirements for the degree have not been completed
within five years after initial registration in the Capstone College of
Nursing, the student’s academic record will be reviewed to establish
appropriate changes or requirements. Any student who has not enrolled
in upper-division courses for more than one semester is required to seek
approval from the assistant dean of Undergraduate Programs prior to
registration to enroll in any subsequent courses. Approval may require
repeating courses to ensure that knowledge is current.

### Exit Exams

Students are required to make passing scores on all standardized exit
exams given in the college. A student who fails to achieve a satisfactory
score must complete a remediation program. Failure to satisfactorily
complete the standardized program exit exam in the last semester of the
program may delay the student’s graduation from the BSN program.

### Review Course

Each student is strongly encouraged to take a review course near the
end of the BSN program in preparation for the National Council Licensure
Examination (NCLEX).

### Admission to Lower Division

Students are admitted to the lower division of the Capstone College of
Nursing when they meet University of Alabama admission requirements.
Students are encouraged to acquaint themselves with general academic
regulations of the University, as stated under the Admissions (p. 897)
section of this catalog. Transfer students are encouraged to seek
advisement from the Capstone College of Nursing Office of Nursing
Student Services. Knowledge of policies and procedures is the student’s
responsibility. Detailed policies and procedures are contained in the
Capstone College of Nursing student handbook, which is available at
http://nursing.ua.edu/start_page.htm. Students are notified of any
policy changes. It is the student’s responsibility to abide by the most
recently published or posted policies and procedures. An official, current
copy of the handbook is available in the office of the Assistant Dean of
Undergraduate Programs.

### Promotion to Upper Division

An online application for promotion to the upper division may be
accessed at nursing.ua.edu. It is the student’s responsibility to submit
an application by the deadline. Applicants for the upper division must be
admitted to The University of Alabama prior to accessing and submitting
an application for upper division.

### Promotion Policies

To progress to the professional component of the nursing curriculum,
a student must possess a functional level of capability to perform the
duties required of a professional nurse. These abilities include, but are
not limited to:

- Adequate vision such as that required to observe changes in physical
  conditions, to read small print on labels and laboratory reports, and to
discern subtle changes in color
- Adequate hearing such as that required to distinguish muted sounds
  through a stethoscope
- Fine motor skills and manual dexterity such as those required to
  handle small, delicate equipment
- Strength such as that required to turn and assist with lifting adults
  and to lift and carry children
- The mobility to respond quickly to emergency situations
- The ability to engage in two-way conversations and interact
effectively with others orally and in writing
- The ability to detect odors
- The ability to consistently and dependably engage in critical thinking
  to make safe and ethical clinical judgments
- The ability to work for extended periods of time using technology,
  including computer testing, online course work, smartphone and
electronic health records

The faculty of the Capstone College of Nursing has identified the
skills and professional behaviors that are essential for the pursuit of
a course of study to be eligible to take the National Council Licensure
Examination–RN and to practice as a professional nurse. These skills
include, but are not limited to, the skills presented in The Essentials of
Baccalaureate Education for Professional Nursing Practice, a publication
of the American Association of Colleges of Nursing. If these skills and
professional behaviors cannot be developed by the student, either
unassisted or with the dependable use of assistive devices, the faculty
reserves the right to dis-enroll the student from clinical courses. A copy
of *The Essentials of Baccalaureate Education for Professional Nursing
Practice* is available upon request from the College’s Office of Academic
Programs.

Promotion to the upper division requires successful completion of the
lower-division courses designated on the Capstone College of Nursing
BSN program of study. Students may apply and be considered for
promotion to the upper division during the final lower-division semester if
they will have completed all courses prior to the semester for which
application to the upper division is made. In such instances, promotion
to the upper division may be granted conditionally, pending successful
completion of all courses required for promotion. Promotion to the
upper division may be withdrawn if the level of academic performance is
significantly lower in those courses completed after conditional
promotion.

Only those applicants whose grade point averages are at least 3.0 for
the required courses in the lower division and whose GPAs are at least
2.75 for the required science courses are eligible to apply for promotion.
Meeting minimum requirements does not guarantee promotion to the
upper division of the nursing curriculum.

Spaces in the upper division are limited. When the number of students
seeking promotion to the upper division exceeds the number of spaces
available, the most qualified applicants will be promoted. Those
applicants who present the strongest academic records and who show
the most promise for success in the upper division will be promoted.
Native UA students are defined as those who have completed 32 or
more hours of the required lower-division coursework at UA or through
Advanced Placement (AP) or Dual Enrollment courses completed in high
school.

Transfer students are defined as those students who have completed
less than 32 hours of the required lower-division coursework at The
University of Alabama. A transfer student may be accepted into the upper
division when the academic record, taken as a whole, presents evidence
of outstanding academic performance and a strong likelihood of success
in the upper division.

Students requesting a transfer to the upper division of the nursing
program from another BSN program must follow the promotion policies
above.

The Capstone College of Nursing does not accept nursing courses from
another BSN program. The number of students promoted each semester
is dependent upon available resources; promotion to upper division
is competitive. Applications and deadlines for promotion to the upper
division may be obtained online at nursing.ua.edu.

Upon progression to the upper division, permission to depart from
the clinical sequence must be obtained from the assistant dean of
Undergraduate Programs. Because of the limitations in clinical course
spaces, departure from the sequence for any reason may significantly
lengthen the time for program completion.

### Withdrawal from the First Clinical Nursing Course

Any student who withdraws from or does not successfully complete
the first clinical nursing course in the upper division must contact
the assistant dean of Undergraduate Programs to be considered for
placement in the course the next semester. The student will be placed
in the course on a space-available basis only. Before considering
placement of any students who have not succeeded in the course,
preference for spaces will be given to those applicants who meet all
promotion criteria and who have not previously been promoted. If space
becomes available for a student’s reassignment to the course, a second
unsuccessful attempt by that student in any other clinical course will
result in academic suspension from the Capstone College of Nursing.

### Return to the Undergraduate Nursing Program after a Nonacademic Leave of Absence

Following a nonacademic leave of absence (e.g., military, medical or
other) from the Capstone College of Nursing for six or more months, a
student’s academic record and time elapsed since completing clinical
nursing courses will be reviewed by the assistant dean of Undergraduate
Programs to facilitate the student’s readiness to re-enter the program.

Individualized plans will be negotiated with the student to facilitate a
smooth transition into the program and may include knowledge-refresher
activities, either informal or formal independent study.

Components of the refresher plan may include, but are not limited to, the
following:

- review of medication calculations and completion of a medication-
calculation exam
- review of health-assessment materials, such as videos
- review of appropriate charting and documentation methods
- practice with medication administration, such as PO, IM and IV
- practice with skills such as Foley catheter insertion, NG tubes,
suctioning, sterile dressing changes, injections and IV insertion
- review of content from an NCLEX Review book of content areas
previously completed

This option is offered to facilitate the student’s successful re-entry into
the BSN program. The student assumes responsibility for his or her
learning and is encouraged to seek needed assistance.

The academic adviser in the Office of Nursing Student Services
assists students regarding academic matters. Students may make an
appointment to meet with the academic adviser for academic matters
at any time during the semester. Academic matters include course
sequencing, withdrawals, dropping and adding courses, academic
progression, registration and academic problems. Faculty mentors
are available to advise and mentor students regarding career goals
and questions about the nursing field. Students may request a faculty
mentor by submitting the faculty mentor request form available
at nursing.ua.edu to the ONSS.

### Preregistration Advising

#### Lower Division

Students must attend a preregistration advising session each semester
to be cleared for registration, unless the academic adviser has cleared
them during that semester. A student who does not complete a
designated advisement session during the scheduled period will be
required to register during late registration and pay the associated
fee. Information about advising and registration is provided at
nursing.ua.edu.

#### Upper Division

Upper Division students participate in a preregistration group advising
session facilitated by undergraduate faculty during the designated
preregistration advising period in the fall and spring semesters. CCN
provides specific information to upper-division students about clinical schedules.

There is no late registration for clinical nursing courses. If extenuating circumstances have made regular registration for clinical courses impossible, approval for late registration in these courses may be requested from the assistant dean of Undergraduate Programs.

Prerequisites
Many lower division courses have specific prerequisites. See course descriptions for prerequisites or contact the Office of Nursing Student Services for detailed information.

Policies Governing Progression and Graduation
Upon promotion to the upper division, students progress to clinical nursing courses in the established sequence. If a student's progression is interrupted for any reason, it is the student's responsibility to contact the assistant dean of Undergraduate Programs to request consideration for reassignment. Because spaces in clinical courses are limited, any alteration of the usual progression may lengthen the student's program of study.

To be eligible for the degree of Bachelor of Science in Nursing, a candidate must show successful completion of the courses required in the nursing program of study and complete a minimum of 32 semester hours at The University of Alabama.

Academic Probation and Suspension
The general academic scholarship rules of the University apply to students enrolled in the Capstone College of Nursing; however, any written agreements entered into by students and the dean of the College take precedence over the University's general rule. See the Academic Records and General Academic Policies (p. 636) section of this catalog for further details.

Any student who receives a second "D" or "F" in any nursing course, or in any combination of nursing courses, will be academically suspended from the Capstone College of Nursing. Only one course withdrawal in the traditional BSN Upper Division nursing program will be allowed. A second withdrawal will result in academic suspension from the Capstone College of Nursing.

Readmission of Academically Suspended Students
After a lapse of one regular semester from the last date of enrollment, a student who has been suspended by the Capstone College of Nursing may apply for readmission through the office of the senior associate dean of Academic Programs. This application may be submitted immediately after notification of suspension. The application, the student's record of performance and other pertinent information submitted by the student will be reviewed, and a recommendation concerning the application for readmission will be made to the dean of the college. Students who are suspended a second time are placed on indefinite academic suspension.

Readmission Following Withdrawal
A student who has withdrawn from the upper division of the Capstone College of Nursing and wishes to be readmitted after an absence of one semester or more must do the following:

1. Contact the assistant dean of Undergraduate Programs for information about the readmission process.
2. Contact Undergraduate Admissions to determine if an application for readmission is required. Permission to return to the Capstone College of Nursing will depend on the student's previous performance and the availability of space in the required nursing courses. Readmission may require repeating courses to ensure that knowledge is current.

Maximum Hours
A student may not exceed a course load of 18 semester hours except with the approval of the dean of the College.

Policy on Repeating Courses
A record of all courses attempted will appear on the student's transcript. If a grade below C- is received in any course required in the program of study, the course must be repeated on a space-available basis.

Pass/Fail Option
With special permission, a student may choose to receive a grade of Pass (P) or Fail (F) for a course instead of the conventional A, B, C, D or F. If a P is earned, the hours count, but the grade point average is not affected. If an F is earned, the GPA is reduced.

- Only elective courses may be taken as pass/fail.
- Courses used to meet University Core Curriculum requirements may not be taken on a pass/fail basis.
- Forms for the pass/fail option may be obtained from the College’s ONSS.
- See the Academic Records and General Academic Policies (p. 636) section of this catalog for further details.

Administrative Withdrawal from Clinical Nursing Courses
Students' clinical experiences are considered a vital part of learning the practice of professional nursing, and faculty guidance is available in facilitating these learning experiences. As students progress through the program of study, they are expected to increase their abilities to function independently and assume responsibility for their actions. When a student's clinical decision making is deemed by faculty to constitute unsafe or unethical nursing practice, or when there is lack of adherence to established policies and procedures related to professional conduct, the student will receive a failing grade in the course and will be withdrawn from the course and/or suspended from the program. Administrative withdrawal procedures are initiated by faculty through the office of the senior associate dean for Academic Programs. Further progression in the Capstone College of Nursing is determined according to the rules for academic probation and suspension and the availability of space.

Auditing Courses
Clinical nursing courses are not open to auditors.

Clinical Nursing Expenses
Standard University of Alabama tuition is charged for enrollment in clinical nursing courses. In addition to textbook expenses, clinical nursing students are responsible for the provision of uniforms and supplies for performance in the clinical area. Students are responsible for their own transportation to and from all clinical experiences. The expense of required liability insurance and standardized test fees is also the responsibility of the student. Detailed information on ordering uniforms and supplies will be furnished when students are promoted to the upper division of the nursing program.
In addition to standard University fees, a laboratory fee is assessed when students are enrolled in nursing courses. Costs for textbooks, physical-assessment equipment, mobile device (iPod Touch), mobile device software and other supplies for the first semester of upper-division work substantially exceed those of subsequent semesters.

**Late Registration**

There is no late registration for clinical nursing courses.

**Licensure**

Upon completion of the program, students meet the educational qualifications of the Alabama Board of Nursing for taking the National Council Licensure Examination for Registered Nurses. Completion of the academic program in no way assures the student of licensure. No employee, agent or representative of the University is authorized or empowered to provide such assurances either directly or by implication.

**Transfer Credit**

Transfer credit is accepted if the lower division course content is deemed equivalent to that required in the curriculum of the College. Evaluation is based on course content, the grade earned and credit earned.

Successful completion of examinations available through the University Testing Services may satisfy certain general education requirements. See the Credit by Examination (p. 626) section of this catalog.

**Credit Courses Taken in the College of Continuing Studies**

**Correspondence or Independent Study Courses**

Selected general education courses required for the degree of Bachelor of Science in Nursing may be taken from the independent study program of the College of Continuing Studies with prior approval of the Director of Nursing Student Services (see the College of Continuing Studies (p. 917) section of this catalog for details of the independent study program.)

NUR102 Freshman Compass: Nursing

**FCMP**

Hours 1

The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory).

Freshman Compass

NUR104 Liv Learning Prof Nursing Prac

**FCMP**

Hours 2

This elective course focuses on awareness of education of nursing majors at The University of Alabama Capstone College of Nursing and the profession of nursing. Students have the opportunity to learn about The University of Alabama campus, the Capstone College of Nursing and the profession of nursing. Activities will be included to promote students’ development of relationships with other nursing students and other students in Harris Hall. This course, which is known as a compass course, will point you in the right direction, much as a compass would. (Theory).

Freshman Compass

**Faculty**

**Dean**

Suzanne S. Prevost, PhD, RN, COI

**Senior Associate Dean**

Robin M. Lawson, DNP, CRNP, ACNP-BC, NP-C, CCRN

**Assistant Dean**

Melondie Carter, PhD, RN

**Administrative and Professional Staff**

Matthew Ander
Tabby Brown
Andrea Foster
Savannah Hoover
Christina Horen
Patrick McIntyre
Shelley Jordan
Cynthia Morris
Bridgette Riter
Vickie Samuel
Regina Sanders
Karen Silliman
Priscilla Payne
Ann Tinsley
Lisa Tyner
Rebekah Welch
Katarah Wilson

**Nursing (RN to BSN)**

Registered nurses who enroll at The University of Alabama may opt to pursue one of two options toward the completion of a higher degree or degrees. Both programs of study allow students to continue working while completing coursework online.

**RN to BSN**

The RN to BSN program of study is specifically designed for the registered nurse student to earn a bachelor’s degree. The program
consists of 52-58 semester hours of required lower-division coursework and 25 semester hours of upper-division coursework. Lower-division studies include courses that meet University Core Curriculum requirements for a bachelor’s degree. All lower-division hours must be successfully completed prior to enrolling in upper-division courses. Upon admission to the University as a RN to BSN student, credit for 40 hours of NUR courses is awarded.

**RN to BSN**

**Lower Division courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 215</td>
<td>8</td>
</tr>
<tr>
<td>&amp; BSC 216</td>
<td></td>
</tr>
<tr>
<td>BSC 242</td>
<td>4</td>
</tr>
<tr>
<td>CH 104</td>
<td>4</td>
</tr>
<tr>
<td>CS 102</td>
<td>3</td>
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<tr>
<td>EN 101</td>
<td>6</td>
</tr>
<tr>
<td>EN 102</td>
<td></td>
</tr>
<tr>
<td>HD 101</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>3</td>
</tr>
<tr>
<td>PHL 223</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts 1</td>
<td>3</td>
</tr>
<tr>
<td>Literature and History 2</td>
<td>9</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 55

**Upper Division courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 319</td>
<td>3</td>
</tr>
<tr>
<td>NUR 329</td>
<td>3</td>
</tr>
<tr>
<td>NUR 348</td>
<td>4</td>
</tr>
<tr>
<td>NUR 449</td>
<td>5</td>
</tr>
<tr>
<td>NUR 455</td>
<td>5</td>
</tr>
<tr>
<td>NUR 465</td>
<td>5</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 25

**Total Hours:** 80

1. List of approved Fine Arts courses can be found here.
2. All students are required to complete a six-credit-hour sequence in either History or Literature. Students opting to enroll in the Literature sequence must also complete an approved three-credit History course. Students opting to enroll in the History sequence must also complete an approved three-credit Literature course. If students take two history courses and one literature course, one additional literature, humanities, or fine arts course is required to satisfy the 12-hour humanities core requirement.
3. These courses require a field placement component and it is the student’s responsibility to secure a site for the field placement.

**Promotion to Upper Division**

Every effort will be made to promote all applicants who meet the criteria. The number of applicants promoted is dependent on the educational resources available to support this track. The application for promotion is due in the Office of Nursing Student Services by March 1 for summer promotion, June 1 for fall promotion and October 1 for spring promotion. Applications submitted after the deadlines may be considered.

**Promotion Criteria**

To be eligible for promotion to the upper division, a registered nursing student must have the following:

- satisfactory completion of all lower-division requirements (grade of C- or higher)
- an overall grade point average of 2.5 on the required lower-division courses
- an overall grade point average of 2.0 on all required science courses
- an unencumbered RN license in the state where clinical course requirements will be completed
- graduation from an ACEN accredited school of nursing
- applicants must reside and be licensed in one of the states in which the Capstone College of Nursing is authorized to provide online education. To view the list of approved states click here.

**RN to BSN Plans of Study**

**Spring Admission (Full-Time)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 319</td>
<td>3</td>
</tr>
<tr>
<td>NUR 348</td>
<td>4</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 7

**Summer Admission (Full-Time)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 329</td>
<td>3</td>
</tr>
<tr>
<td>NUR 449</td>
<td>5</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 8

**Fall (graduating semester)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 455</td>
<td>5</td>
</tr>
<tr>
<td>NUR 465</td>
<td>5</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 10

**Total Hours:** 25

**Summer Admission (Full-Time)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 319</td>
<td>3</td>
</tr>
<tr>
<td>NUR 348</td>
<td>4</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 7

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 329</td>
<td>3</td>
</tr>
<tr>
<td>NUR 449</td>
<td>5</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 8

**Spring (graduating semester)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 455</td>
<td>5</td>
</tr>
<tr>
<td>NUR 465</td>
<td>5</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 10

**Total Hours:** 25

**Fall Admission (Full-Time)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 319</td>
<td>3</td>
</tr>
<tr>
<td>NUR 348</td>
<td>4</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 7
### Spring Admission (Part-time)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 1</td>
<td>NUR 348</td>
<td>Role Tran in Baccalaureate Nur (W)</td>
<td>4</td>
</tr>
<tr>
<td>Summer 1</td>
<td>NUR 329</td>
<td>Inq. Evidence Based Pract RNS</td>
<td>3</td>
</tr>
<tr>
<td>Fall 1</td>
<td>NUR 465</td>
<td>Complex Client Sys RNs</td>
<td>5</td>
</tr>
<tr>
<td>Spring 2</td>
<td>NUR 319</td>
<td>Nrsg Informatics for RNs</td>
<td>3</td>
</tr>
<tr>
<td>Summer 2</td>
<td>NUR 449</td>
<td>Community Health For RNs</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Hours:** 25

### Summer Admission (Part-time)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 1</td>
<td>NUR 348</td>
<td>Role Tran in Baccalaureate Nur (W)</td>
<td>4</td>
</tr>
<tr>
<td>Fall 1</td>
<td>NUR 329</td>
<td>Inq. Evidence Based Pract RNS</td>
<td>3</td>
</tr>
<tr>
<td>Spring 1</td>
<td>NUR 465</td>
<td>Complex Client Sys RNs</td>
<td>5</td>
</tr>
<tr>
<td>Summer 2</td>
<td>NUR 449</td>
<td>Community Health For RNs</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Hours:** 25

### Fall Admission (Part-time)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 1</td>
<td>NUR 348</td>
<td>Role Tran in Baccalaureate Nur (W)</td>
<td>4</td>
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<tr>
<td>Spring 1</td>
<td>NUR 329</td>
<td>Inq. Evidence Based Pract RNS</td>
<td>3</td>
</tr>
<tr>
<td>Summer 1</td>
<td>NUR 465</td>
<td>Complex Client Sys RNs</td>
<td>5</td>
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<tr>
<td>Fall 2</td>
<td>NUR 319</td>
<td>Nrsg Informatics for RNs</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2</td>
<td>NUR 449</td>
<td>Community Health For RNs</td>
<td>5</td>
</tr>
<tr>
<td>Summer 2</td>
<td>NUR 455</td>
<td>Leadership &amp; Management Roles</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Hours:** 25

### RN/BSN Pathway to MSN (Phase One)

Click here (p. 582) to view the Phase Two plan of study Nurse Case Manager and Clinical Nurse Leader

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 1</td>
<td>NUR 319</td>
<td>Nrsg Informatics for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 348</td>
<td>Role Tran in Baccalaureate Nur (W)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 519</td>
<td>Advanced Pharmacology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NUR 529</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
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</table>

**Total Hours:** 33

### Nurse Administrator

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Summer 1</td>
<td>NUR 319</td>
<td>Nrsg Informatics for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 348</td>
<td>Role Tran in Baccalaureate Nur (W)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NUR 519</td>
<td>Advanced Pharmacology</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours:** 7
curriculum requirements. Clinical nursing courses are not taught in summer sessions.

NOTE: The Capstone College of Nursing reserves the right to make modifications in its program and policies as necessary, but every effort will be made to implement the general program for full-time students.

### Lower Division Requirements (BSN)

#### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 104</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EN 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>NUR 102</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Fine arts (FA)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HD 101</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 215</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>ANT 102 or SOC 101</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>NHM 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Literature (L)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language (FL) or Computer Science (CS)</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### Upper Division Requirements (BSN)

#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 305</td>
<td>3</td>
</tr>
<tr>
<td>NUR 308</td>
<td>3</td>
</tr>
<tr>
<td>NUR 310</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 309</td>
<td>3 NUR 328</td>
</tr>
</tbody>
</table>

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**Types of jobs Accepted**

Many of our graduates accept positions in hospitals to begin with. From there, they will go on to graduate programs or other areas of practice. The career opportunities are limitless.

Learn more about opportunities in this field at the Career Center

### Nursing, BSN

Nursing students should have a interest in being public servants. There are many areas a nurse may practice in, including community health, mental health, adult health, pediatrics, labor and delivery and others. It is recommended that high school preparation includes coursework in the sciences.

### Minors

A student may pursue a minor in any area that has a University-approved minor program and is approved by the ONSS. Consult the departmental listings in this catalog for specific requirements of minor programs.

### Application for Degree

An online application for a degree must be completed the semester in which the student will complete all requirements for the BSN degree. The degree application may be accessed through a student’s myBama account.

The degree of Bachelor of Science in Nursing requires the completion of the courses designated in the following program of study. Elective hours may be used to complete a major portion of the University Core Curriculum; additional courses, however, may be required. Students may choose to enroll in summer session(s) to meet requirements and to adjust the program of study to meet individual needs. Students should also review core curriculum requirements (p. 889) in the Academic Records and General Academic Policies (p. 624) section of this catalog.
Arts (BA), bachelor of science (BS), bachelor of music (BM) offers programs of study leading to the following degrees: bachelor of mathematics, the humanities, fine arts and performing arts. The College of disciplines in the social and behavioral sciences, the natural sciences, the College of Arts and Sciences. Learn more about opportunities in this field at the Career Center. The career opportunities are limitless. There, they may go on to graduate programs or other areas of practice. Many of our graduates accept positions in hospitals to begin with. From there, they may go on to graduate programs or other areas of practice. The career opportunities are limitless. Learn more about opportunities in this field at the Career Center.

**College of Arts and Sciences**

The College of Arts and Sciences offers majors and minors in a variety of disciplines in the social and behavioral sciences, the natural sciences, mathematics, the humanities, fine arts and performing arts. The College offers programs of study leading to the following degrees: bachelor of arts (BA), bachelor of science (BS), bachelor of music (BM), bachelor of fine arts (BFA), bachelor of science in chemistry (BCh), bachelor of science in geology (BSG) and bachelor of science in microbiology (BMB).

**Department of American Studies** (p. 944)
**Department of Anthropology** (p. 946)
**Department of Art and Art History** (p. 950)
**Department of Biological Sciences** (p. 958)
**The Blount Scholars Program** (p. 968)
**Department of Chemistry and Biochemistry** (p. 968)
**Department of Communicative Disorders** (p. 972)
**Department of Criminology Criminal Justice** (p. 975)
**Economics, BA** (p. 977)
**Department of English** (p. 978)
**Environmental Science** (p. 983)
**Department of Gender and Race Studies** (p. 985)
**Department of Geography** (p. 988)
**Department of Geological Sciences** (p. 993)
**Department of History** (p. 997)
**Marine Science Program** (p. 1001)
**Department of Mathematics** (p. 1001)
**Department of Modern Languages and Classics** (p. 1006)

**School of Music** (p. 1015)
**New College** (p. 1032)
**Department of Philosophy** (p. 1039)
**Department of Physics and Astronomy** (p. 1042)
**Department of Political Science** (p. 1047)
**Department of Psychology** (p. 1055)
**Department of Religious Studies** (p. 1059)
**Department of Theatre and Dance** (p. 1065)

**General Education Requirement**

Students must meet the general education requirement. All courses that carry the following general education designations are listed on the University of Alabama website and are usually displayed in each semester’s schedule of classes. Please consult the listings for each semester.

1. Freshman Composition (FC) – Six hours
2. Upper-level Writing (W) – Six hours: Writing-designated courses are 300- and 400-level courses usually completed in the student’s junior and senior years and most commonly in the major or minor. The writing requirement must be satisfied by courses taken at The University of Alabama.
3. Foreign Language (FL) and Computer (C) – Six hours: Each student completes one of the following options: Six semester hours in courses approved for the computer designation (such courses assume a working knowledge of the computer) or two semesters or the equivalent in one foreign language. Students must earn grades of C- or higher in the first course of the two-semester sequence before enrolling in the second course.
4. Humanities (HU), Literature (L) and Fine Arts (FA) – 12 hours: To satisfy this requirement, each student completes the following: three hours of fine arts, three hours of literature, and six hours of other fine arts, literature or humanities courses. Each student must complete a six-semester-hour sequence in either literature or history. To satisfy the breadth of learning so crucial to general education, a maximum of six hours in any one department may be applied to the humanities, literature, fine arts, history and social and behavioral sciences requirements.
5. History (HI) and Social and Behavioral Sciences (SB) – 12 hours: To satisfy this requirement, each student completes the following: three hours of history and nine hours of other HI and SB courses.
6. Natural sciences (N) and Mathematics (MA) – 11 hours: To satisfy this requirement, each student completes the following: eight hours of natural sciences (including six hours of lecture and two hours of accompanying lab) and three hours of mathematics (the mathematics requirement must be satisfied with MATH 110 Finite Mathematics or higher).

All BS degrees must include Calculus I (MATH 125 Calculus I or MATH 145 Honors Calculus I), or a higher-level calculus course. Students in Arts and Sciences degree programs may not apply CSM 116 Quantitative Methods of Financ as a core math (MA). Only courses with a MATH abbreviation may be used to fulfill this requirement. This rule also applies to students who may have taken CSM 116 Quantitative Methods of Financ while enrolled in another academic division but later transferred to A&S.
Major Subjects of Specialization

Each student must have at least one major subject of specialization. See the listing for majors and minors available in the College of Arts and Sciences. Requirements for majors and minors can be found under academic departments.

Hours in the Major

Each major requires a specific number of hours that is specified in the description of the major in this catalog. A student may choose to take additional hours in the major, but the department cannot require more than the stated number. Students in degree programs requiring 120 hours may apply a total of 42 hours in a single discipline toward degree requirements. Courses specifically excluded from the major are not included in the 42 hours.

Residency in the Major

All students, including transfer students, must complete in residence a minimum of 12 hours at the 300- or 400-level in the major. Additional residency requirements are cited in this catalog.

Grade Point Average in the Major

Each student must earn a minimum grade point average of 2.0. A student’s major GPA is calculated in the following manner:

1. Calculation is based only on classes currently being used to complete major requirements.
2. Calculation does not include failed and repeated courses.
3. Calculation does not include classes in the major subject area that were taken over and above what is required to complete the major. Since these classes are not actually completing requirements, they are not taken into consideration.
4. When multiple classes can be used to complete a particular requirement, the class with the best grade will be used in the GPA calculation.
5. Both UA institutional coursework and transfer work will be used to calculate the major GPA.

Duplication of Coursework

The use of the same course to satisfy specific requirements in the major and minor is not permitted. However, courses that are used to satisfy General Education Requirements can be used to complete major or minor requirements. Ancillary courses required for the major may be used to satisfy requirements in the minor or in the second major.

Double Majors

A student may major in two subjects with the following provisions:

1. If the two majors lead to different degrees offered in the College of Arts and Sciences (BA, BFA, BM, BS or one of the designated degrees) or in another UA division, the student chooses which one of the degrees to receive.
2. If you have two majors a minor is not required.

Minor or Second Major

A minor or a second major is required for the majority of students. See the requirements for majors and minors as listed in this catalog.

Hours in the Minor

This catalog states the number of hours and the specific courses that are required for minors approved for students in the College of Arts and Sciences. A student may choose to take additional hours in the minor, but the department cannot require more than the stated number. Minors are subject to the same limitations on concentration of applicable hours as are majors.

Residency in the Minor

All students, including transfer students, must complete in residence a minimum of six hours at the 300- or 400-level in the minor. Additional residency requirements are cited in this catalog.

Grade Point Average in the Minor

Each student must earn a minimum 2.0 grade point average. A student’s minor GPA is calculated in the following manner:

1. Calculation is based only on classes currently being used to complete minor requirements.
2. Calculation does not include failed and repeated courses.
3. Calculation does not include classes in the minor subject area that were taken over and above what is required to complete the minor. Since these classes are not actually completing requirements, they are not taken into consideration.
4. When multiple classes can be used to complete a particular requirement, the class with the best grade will be used in the GPA calculation.
5. Both UA institutional coursework and transfer work will be used to calculate the GPA.

Duplication of Coursework

The use of the same course to satisfy specific requirements in the major and minor is not permitted. However, courses that are used to satisfy General Education Requirements can be used to complete major or minor requirements. Ancillary courses required for the major may be used to satisfy requirements in the minor or in the second major.

Double Minors

Students may minor in two subjects, with the following provisions:

1. Coursework between the major and minor or double minors may not be duplicated.

Electives

Additional coursework to achieve 120 hours or more in the degree program is required.

Additional Expectations

These additional requirements are important to ensuring the liberal arts character of the degree program. The requirements set minimum standards for the degree, including the promotion of sufficient study at The University of Alabama, setting minimum standards of performance quality, establishing expectations for study at the advanced level and in liberal arts disciplines, and limiting the applicability of certain types of courses.

Catalog

All degree requirements are met under one catalog. This is usually determined by the catalog in effect at the time of the student’s first enrollment, but a student may change his or her catalog to a more recent one.

Residence in the College and in the Major and Minor

While enrolled in the College of Arts and Sciences, students must earn a minimum of 30 hours on this campus. A minimum of 12 hours in each
major and six hours in each minor must be earned at the 300- or 400-level in residence.

**Minimum Hours with 2.0 Grade Point Average**

1. Each student must complete a minimum of 120 semester hours of coursework approved by the College of Arts and Sciences.
2. Each student must earn a minimum 2.0 grade point average on the total number of hours attempted, including all work at UA and all transfer work.
3. Each student must earn a minimum 2.0 grade point average on hours attempted at The University of Alabama.

**36 Hours in 300- and 400-Level Courses**

Each student in the College of Arts and Sciences must complete a minimum of 36 semester hours in courses at the 300 or 400 level. The 36-hour total includes the 300- and 400-level courses completed in fulfillment of major and minor requirements.

Junior college credits are not considered advanced level.

**90 Hours within the Disciplines of the College**

All degree programs in the College of Arts and Sciences require at least 90 hours selected from A&S or related disciplines. Transfer courses in these disciplines apply to the completion of the 90-hour requirement.

Courses with the following prefixes count toward this requirement: AAST, AMS, ANT, ARB, ARH, ART, AS, AY, BSC, BUJ, CCCH, CHI, CL, CD, CBH, CIP, CJ, CRL, CROA, CS, CZE, DN, DNCA, DUT, EC, EN, FA, FIN, FLC, FR, FRS, GS, GY, GEO, GN, GR, HEB, HIN, HY, HU, IHP, INDO, IT, JA, KOR, LA, MS, MATH, MDGR, MLC, MUA, MUS, NEW, NOR, PH, PHL, POL, POR, PSC, PY, REL, RUS, SAN, SOC, SP, SS, ST, SWA, SWED, TH, THAI, THMT, TURK, UA, UFE, UH, URDU, VIET, WS, WL.

**Degree Credit for Activity Courses**

A student may apply a maximum of four semester hours in activity courses toward graduation.

Activity courses include compass courses (AS 101 Freshman Compass Course: Arts & Sciences, AS 102 Compass: Arts & Sciences, AS 299 Junior Seminar, BCE 101 Freshman Compass: UA, GBA 145 Freshman Compass: CBA, HES 100 Freshman Compass Human Env Sci, NUR 102 Freshman Compass: Nursing, NUR 104 Liv Learning Prof Nursing Prac); leadership course (HES 275 Leadership Develop Thru Serv); career exploration course (HES 250 Career Develop/Planning); recreation courses (NEW 201 Recreation For Life); kinesiology activity and coaching courses (KIN 310 Coaching Swimming, KIN 352 Psychology of Coaching, KIN 370 Coaching Soccer, KIN 381 Coaching Football, KIN 382 Coaching Basketball, KIN 383 Coaching Baseball, KIN 385 Coaching Golf, KIN 386 Coaching Volleyball, KIN 420 Issues in Athletics Coaching); and 100-level and 200-level military or Air Force studies courses.

**Degree Credit for Upper-Division Courses in Military Science and Air Force Studies (MIL and AFS)**

A student may apply toward graduation a maximum of 12 semester hours of credit in 300- and 400-level courses in military science (MIL) or Air Force studies (AFS).

**Multiple Undergraduate Degrees**

Students and former students interested in obtaining a second bachelor’s degree and currently enrolled students interested in earning concurrent degrees must adhere to several stipulations described in this section of the catalog. A student may only be awarded one degree with the same degree type (i.e., bachelor of arts, bachelor of science, bachelor of science in electrical engineering, etc.). For example, once a bachelor of arts is earned, a student may pursue a second major associated with a bachelor of arts but not a second bachelor of arts degree. In this example, the student could pursue a bachelor of arts in communication because the degree type is different.

Students are responsible for declaring their intent to pursue a second bachelor degree by filing an approval plan of study with the primary college of residency. To ensure appropriate advising, approval is obtained at a point when no less than 30 hours of course work remains for the completion of one or both degrees. Students are also responsible for re-filing updated plans of study if changes are desired.

For degrees in different colleges, students must establish one college as the primary college of residency. If program accreditation is a component of the degree program, then the primary college of residency must be the college of the degree program whose professional accreditation requires residency. The student must pay all fees and adhere to all requirements of each college, other than residency.

Students are responsible for filing a degree application for each degree sought according to the published degree application submission deadlines of the colleges and/or schools recommending the degrees and within the deadlines established by the Office of the University Registrar.

**Concurrent Bachelor Degrees**

Currently enrolled students are encouraged to pursue graduate level studies toward an advanced degree through the Accelerated Masters Program in lieu of pursuing a concurrent bachelor’s degree. However, a currently enrolled student may earn two different bachelor’s degrees (i.e., a B.A. and a B.S.) concurrently. Both degrees do not have to be received in the same semester provided the concurrent degree plan of study was approved prior to the receipt of the first degree. Students pursuing concurrent degrees must adhere to the following provisions:

1. Each student must earn a minimum of 150 credit hours, including a minimum of 60 credit hours in residence.
2. Each student must complete all University, College, major and minor requirements for both degree programs. If more than one minor is required, only one must be completed.
3. Each student must fulfill all prerequisites and course requirements in the two different major fields.
4. Courses may be counted toward meeting the requirements in more than one area unless specifically prohibited by the academic departments and so stated in the catalog. However, credit for such a course cannot be applied toward both the total hours required for the first degree and the additional hours required for any additional degree.
5. A student who completes all requirements for two or more different degrees (e.g., bachelor of arts and bachelor of science) will be awarded multiple degrees and will receive multiple diplomas.

**Second Bachelor Degree, UA Alumni**

A student who has previously earned a bachelor degree from The University of Alabama and wishes to pursue further undergraduate work may complete an additional major and have it noted on the official transcript (with date of completion) OR earn a second degree if it is different from the first (i.e., a B.A. if the first degree was a B.S., and vice versa). This student must apply for readmission for the second degree and meet the following provisions:

1. Each student must earn a minimum of 30 additional credit hours in residence in the College of Arts and Sciences over and above any hours applied to the first degree.
2. Each student must complete all University, College and major requirements for the second degree in the catalog under which the student enters, or in a subsequent catalog.

3. Each student must fulfill all prerequisite and course requirements in the major field(s) for the second degree.

Second Bachelor Degree, Non-Alumni

A student holding a bachelor degree from a regionally accredited institution of higher learning may earn a second bachelor degree, in most instances, from The University of Alabama by fulfilling a specific set of requirements at both the College and University level. The student must apply for admission for the second degree and meet the following provisions:

1. Each student must meet all requirements for the second degree to include all course hours, grade point, ancillary, prerequisite and residency requirements specified by the degree program.

2. If a student holds a bachelor degree from a regionally accredited institution of higher learning, the University presumes all general education requirements have been completed. This presumption does not apply to ancillary requirements.

3. Each student must earn 25% of the degree requirements (a minimum of 30 additional credit hours for a 120 hour degree) in residence at The University of Alabama over and above any hours applied to the first degree.

Expected Progress

During the fall and spring semesters, the recommended course load for students in the College of Arts and Sciences is 14-16 hours per semester. A course load of more than 18 hours requires special permission (A&S Student Services Center, 200 Clark Hall). A course load under 12 hours is not considered full-time enrollment. Institutional research has shown that graduation rates are significantly higher for students who complete at least 12 hours during their first college semester, as compared with students who do not complete at least 12 hours.

During the summer semester, students may enroll for a maximum of 17 hours (3 hours in Interim and 7 hours each summer term).

Student Responsibility

1. Students are expected to familiarize themselves with this catalog and consult academic advisers in planning their programs of study.

2. Students are responsible for registering for course loads appropriate to the degrees they seek and consistent with their individual circumstances.

3. Students are expected to pursue successful completion of all courses in which they enroll.

4. Students are responsible for monitoring the accuracy of their academic records and reporting any errors to the college registrar in the A&S Student Services Center, 200 Clark Hall.

5. Students are expected to maintain a Crimson email account, mailing addresses and telephone numbers at which they can be reached with reasonable certainty and to respond promptly to all communications from the University and the College.

6. Students are expected to be familiar with the current academic calendar.

7. Students are expected to make full use of DegreeWorks and other available advising resources in executing their academic success plans.

Admission and Retention

The College of Arts and Sciences admits students on the basis of the University’s general admission requirements listed in this catalog. As noted in the department program descriptions, in some departments, admission to upper-division status, clinical training programs, internships, practicums, etc., may require higher levels of scholarship. Retention is based on the general scholarship rule and the scholastic progress standard.

Course Placement

The College of Arts and Sciences awards credits and places students in courses based on several criteria. First, course credits are awarded based on Advanced Placement and International Baccalaureate scores. Other placement information is as follows:

In English

EN 103 Advanced English Composition is an accelerated freshman composition course that is open to students with ACT composite scores of 28 or ACT English scores of 30 and above, or SAT scores of 1250 (old) and above or SAT Verbal scores of 720 (old) or SAT Reading-Writing (new) 730 or SAT Total (new) 1350. With a grade of C- or higher at the completion of the course, placement credit is awarded for EN 101 English Composition and the general studies requirement for freshman composition is complete.

In Foreign Languages

The course level at which students begin their study of a foreign language is determined by several factors. These factors include the following: the number of high school units complete, language placement examination scores, or faculty evaluation for those with native or heritage competency. Placement assessments are offered in French, German, Latin, Russian and Spanish.

<table>
<thead>
<tr>
<th>Level</th>
<th>Placement Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>No prior instruction in the language, fewer than two high school units in the language, instruction more than four years ago, or UA placement test</td>
</tr>
<tr>
<td>102</td>
<td>Two High school units in the language or UA credit for 101 or UA placement test</td>
</tr>
<tr>
<td>103</td>
<td>Two high school units in the language or 101 at another institution¹</td>
</tr>
<tr>
<td>201</td>
<td>Credit for 102 or 103 or UA placement test</td>
</tr>
<tr>
<td>202</td>
<td>Credit for 201 or UA placement test</td>
</tr>
<tr>
<td>300</td>
<td>Credit for 202 or UA placement test</td>
</tr>
</tbody>
</table>

¹ 103 available in German and Spanish

When students are placed in Chinese, French, German, Greek, Italian, Japanese, Latin, Russian and Spanish courses numbered 200 or higher and they successfully complete the course into which they were placed, they can apply to the Department of Modern Languages and Classics to receive credits for some courses that precede the course into which they were placed.

Members of the language faculty individually place International students who possess native competency in a language or United States citizens who are bilingual. These students normally do not receive credit
for courses below the 300 level. These students should contact the Department of Modern Languages and Classics before attending summer orientation or before registering for a course in the language in which they have this competency.

**In Mathematics**

For those students who do not have credit for any college-level mathematics equivalent to a UA mathematics course, placement is determined by their ACT or SAT score in mathematics. If students are not pleased with their placement based on their ACT or SAT mathematics score, they may elect to take the UA Math Placement Assessment through the Office of Testing Services. The Math Placement Assessment may be taken twice.

**In Music**

Auditions determine placement in specific applied courses. Auditions should occur before freshman orientation and registration.

**Changes in Student Course Schedules**

While students may change schedules, it is important that students maintain at least 12 hours of coursework each fall and spring semester, and the recommendation is for 14-16 hours.

First-semester freshmen and first-semester transfer students who have not met the freshman composition requirement enroll in an appropriate English composition course and continue taking required English courses until the composition requirement is met. Students may not drop required freshman-level English courses. Students also may not withdraw from mathematics courses graded A, B, C or NC. These mathematics courses include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 005</td>
<td>Introductory Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 100</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 112</td>
<td>Precalculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>Precalculus Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalc Algebra &amp; Trig</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may drop or add courses during the late registration period at the beginning of each semester. Specific dates are given on the University of Alabama website.

A student may drop a course other than the English and mathematics courses listed above with a grade of W during the first 10 weeks of the fall and spring semesters.

After the tenth week of class, only under extraordinary and well-documented circumstances are students allowed to petition for special consideration to withdraw with a grade of W. Requests for late withdrawals are made to the Student Services Center in 200 Clark Hall.

The short summer terms permit a drop with a grade of W for two weeks.

**Course Repeat**

A course passed at any institution with a grade of A, B or C cannot be repeated at The University of Alabama, except as an audit.

A course passed at The University of Alabama with a grade of D may be repeated. A record of both the original and repeat enrollment appears on the student’s transcript. With respect to hours and grade points applicable to degree requirements and honors-designation requirements in the college, each enrollment is counted in the cumulative hours attempted and cumulative grade points earned, but only the most recent enrollment counts in the cumulative hours applicable to the degree.

**Audit**

A student may audit one course per semester. Permission to audit may be obtained in the A&S Student Services Center, 200 Clark Hall, and the request to audit must be made before the end of the late registration period at the beginning of each semester. An auditor may not take the tests or the final examination in the course. A course that is taken as an audit may not be taken at a later date for credit.

**Pass/Fail Option**

The pass/fail option is designed to encourage students to explore areas of study outside the major and minor. A course taken pass/fail counts as elective credit only; it cannot be used to satisfy any specific requirement and does not count in the minimum number of hours required for the major or minor. University-wide pass/fail regulations are explained in the general information section of this catalog. To take a course pass/fail, students in the College of Arts and Sciences must receive approval in the A&S Student Services Center, 200 Clark Hall, before the end of the late registration period at the beginning of each semester.

**Prerequisite Policy**

The catalog and registration system provide information on the preparation necessary in order to enroll in a specific course. All 300-level courses in the College of Arts and Sciences have either a specific prerequisite course or have the expectation that the student will have junior standing (61 earned hours), or the permission of the instructor, in order to enroll.

**Graduation**

Each candidate for a degree must apply for degree through myBama in the semester immediately prior to the term in which he or she plans to graduate. For example, students who expect to complete degree requirements in May should submit the online degree application during the preceding fall semester. Those who expect to finish degree requirements in August or December should submit the application during the previous spring semester.

Degrees are awarded in May, August and December.

**Major and Minor Advising**

A student entering the University who has an academic interest in one of the major programs of the College is encouraged to designate that field at admission. During their freshman year, all Arts and Sciences students are advised through the Student Services Center in 200 Clark Hall. At the end of the first year of enrollment, students who have declared a major are advised through their academic department and enjoy the benefits of faculty knowledge, advice and enthusiasm for their particular field of study. Each academic department has an undergraduate advising director and designates a specific faculty member to work with each student, individually. The student and adviser work together in planning the major and minor programs of study. Changes in coursework required for the major or minor program of study can be made upon the written recommendation of the departmental undergraduate director or chair. Such changes are reported to the College Registrar by the department for incorporation into the student’s record.
Acceptance for Major and Minor Programs of Study

The college expects students to declare a major by the fourth semester of full-time enrollment. Students should be familiar with the criteria for acceptance into particular programs and be prepared to meet those criteria. Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama. Please note that some majors and minors may require auditions, special applications or permissions. Specific requirements for each major and minor are included in the program descriptions outlined in this catalog.

College Advising

Student Services Center
200 Clark Hall
studentservices@as.ua.edu
(205) 348-5970

The College of Arts and Sciences Student Services Center staff provides assistance to all of the college’s undergraduates. Services include academic advising for all students focused on College- and University-level requirements or on coursework necessary for law school or health careers. Specific services include: academic planning assistance, college-level scholarship programs, compass courses, degree applications and graduation certification, freshman learning communities, freshman and transfer student orientation, general information about academic policies and procedures, course articulation and equivalency, advising for study abroad, living-learning communities, services for prospective students and newly admitted students, and special permissions to add or drop courses. Other services include: academic bankruptcy, change of division, schedule changes, and permissions to take overloads, to audit a class and to reconcile time conflicts.

In addition, the Student Services Center houses the College’s first-year advising program and programs of pre-professional advising for students interested in careers as health professionals (other than nursing) and those interested in studying law.

First-year Advising Program

200 Clark Hall
(205) 348-5970
as.ua.edu/advising
studentservices@as.ua.edu

The College of Arts and Sciences offers a First-year Advising Program. The mission of the First-year Advising Program is to have each student enjoy the resources and opportunities of the University and the college, take personal ownership of his or her academic career and graduate in a timely fashion. It is designed especially for freshman students transitioning from high school to college. The First-year Advising Program offers academic advising, out-of-class programs and opportunities for study in a number of fields so that students may make informed decisions about their major field of study or choosing a field of study. This program works cooperatively with and encourages students to use the resources of the Capstone Center for Student Success, the Center for Academic Success, the Writing Center, the Career Center, the Center for Service and Leadership, the departments of the college and other UA academic divisions.

Health Professions Advising Student Services

200 Clark Hall
(205) 348-5970

The health professions advising program works with all students who are interested in pursuing careers in dentistry, medicine, pharmacy, physical therapy and other health professions fields except nursing.

Pre-Dental Program

A wide variety of programs may be planned that will fulfill specific requirements for admission to dental school and allow students to pursue their individual academic interests. Students preparing to enter dental school should consult the catalogs of the dental schools of their interest early in their undergraduate enrollment in order to be informed of the exact requirements for entrance.

Although specific admission requirements vary, most dental schools require:

- **BSC 114 or BSC 115 or BSC 118**: Principles Of Biology I and Laboratory Biology I
- **BSC 116 or BSC 117**: Principles Biology II and Biology II Laboratory
- **BSC 120**: Honors Gen Biology II
- **BSC 450**: Fundamentals of Biochemistry
- **CH 101 or CH 102**: General Chemistry
- **CH 117**: Honors General Chemistry
- **CH 118**: Honors General Chemistry
- **CH 231**: Elem Organic Chemistry I
- **CH 232**: Elem Organic Chem II
- **CH 237**: Elem Organic Chem Lab
- **PH 101 or PH 105**: General Physics I or General Physics W/Calc I
- **PH 125**: Honors Gen Ph W/Calculus
- **PH 102 or PH 106**: General Physics II or General Physics W/Calc II
- **PH 126**: Honors Gen Ph W/Calculus II
- **MATH 125 or MATH 145**: Calculus I

Since admission to professional schools is highly competitive, students planning careers in the health professions should be aware that satisfactory completion of pre-professional requirements does not guarantee admission to professional schools. Therefore, students are advised to plan undergraduate programs with some attention to possible alternative goals. Periodically, the health professions advisers will assist students in realistically evaluating their potential for admission to professional schools.

The health professions advisors are the primary advisor for students who enter the University as pre-dental until they declare a specific major. After that, and for other students who have an interest in dentistry, the health professions advisor is available as a secondary source to assist specifically with issues related to dental school.

Pre-Medical Program

The health professions advisers assist students in academic planning needed to meet the admissions requirements for medical school. The advisers also provide students with assistance in preparing for
interviews, scheduling the MCAT, developing recommendations and submitting application materials. Student organizations, especially Alpha Epsilon Delta, are important parts of the pre-medical education of UA students. Information about these organizations can be obtained from the prehealth website: prehealth.ua.edu

Students interested in pursuing a career in medicine may choose from a wide variety of programs that will fulfill specific requirements for admission to medical school and allow them to pursue individual academic interests. Students preparing to enter medical school should consult the catalog of the medical school of interest early in their undergraduate careers in order to be informed of each school’s admissions requirements.

Although specific admissions requirements vary, most medical schools require the courses listed below. Most of these courses should be completed in the freshman and sophomore years:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 114</td>
<td>Principles Of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BSC 115 or BSC 118</td>
<td>Honors General Biology I</td>
<td></td>
</tr>
<tr>
<td>BSC 116</td>
<td>Principles Biology II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BSC 117 or BSC 120</td>
<td>Honors Biology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 101 or CH 117</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 102 or CH 118</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 231</td>
<td>Elem Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 232</td>
<td>Elem Organic Chem II</td>
<td>3</td>
</tr>
<tr>
<td>CH 237</td>
<td>Elem Organic Chem Lab</td>
<td>2</td>
</tr>
<tr>
<td>BSC 450 or CH 461</td>
<td>Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>PH 101 or PH 105</td>
<td>General Physics I or Calc I</td>
<td>4</td>
</tr>
<tr>
<td>PH 125</td>
<td>Honors Gen Ph W/Calc</td>
<td>3</td>
</tr>
<tr>
<td>PH 102 or PH 106</td>
<td>General Physics II or Calc I</td>
<td>4</td>
</tr>
<tr>
<td>PH 126</td>
<td>Honors Gen Ph W/Calc II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 125 or MATH 125 or MATH 145</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
</tbody>
</table>

Registration in the freshman and sophomore years in the College of Arts and Sciences does not guarantee admission to the professional phase of a school of pharmacy. Enrollment in the professional phase is limited, and the student will be accepted in accord with his or her scholastic standing and aptitude for a career in pharmacy. An admissions committee makes final selection of students, and although there is no absolute, required grade point average, students accepted in recent years have approximately averaged a 3.5 GPA or higher on a 4.0 scale.

Because prerequisite courses vary considerably among pharmacy schools, and the requirements frequently change, the most prudent approach is to consult the websites of the pharmacy schools for the most recent required courses. American Association of Colleges of Pharmacy maintains a database of pharmacy schools, and the health professions advisers can also assist students with choosing appropriate undergraduate courses. Most pharmacy schools will require at a minimum:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101 or CH 102</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 117</td>
<td>Honors General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 118</td>
<td>Honors General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 231</td>
<td>Elem Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 232</td>
<td>Elem Organic Chem II</td>
<td>3</td>
</tr>
<tr>
<td>CH 237</td>
<td>Elem Organic Chem Lab</td>
<td>2</td>
</tr>
<tr>
<td>BSC 215</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BSC 216</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 125 or MATH 125 or MATH 145</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
</tbody>
</table>

Each pharmacy school determines additional undergraduate course requirements.

The health professions adviser is the primary adviser for students who enter the University as pre-pharmacy until they declare a specific major. After that and for other students who have an interest in pharmacy, the advisers are available as a secondary source to assist specifically with issues related to pre-pharmacy.

Pre-Physical Therapy Program

Although some institutions offer undergraduate degrees in physical therapy, the standard for practice in the field of physical therapy is the graduate degree. The College of Arts and Sciences does not offer an undergraduate degree program in physical therapy, but instead offers programs of study that prepare students appropriately for entry into master’s and doctoral programs. In preparing for entry into a graduate program, students may pursue one of several different majors in the College of Arts and Sciences.

The pre-physical therapy program assists students in completing degrees at The University of Alabama that prepare them to enter graduate programs in physical therapy elsewhere. As an example of some of the important fields of study that are parts of the preparation of pre-physical therapy students, UA students who enter the doctoral program in physical therapy at The University of Alabama at Birmingham are expected to have completed the courses that follow in English, the sciences, psychology and mathematics:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition</td>
<td>3</td>
</tr>
</tbody>
</table>
Visits to the UA Law School, shadowing, student organizations and many other departments offer courses that prepare pre-law students. Political Science and New College, offer pre-law programs of study, but disciplinary interests. Several departments in the College of Arts and Sciences process. Students preparing for law school may pursue different which specific schools are best for them, and to complete the application and experiences that will best prepare them for law school, to decide a career. The pre-law advisor works with students to plan the courses and experiences that will best prepare them for law school, to decide a career. The pre-law advisor works with students who are interested in law as an academic major, the pre-law adviser is available as a secondary source to assist specifically with issues related to pre-law preparation.

**Mission**

The College of Arts and Sciences is central to the instructional, research and outreach missions of The University of Alabama. The college provides the fundamental liberal arts foundation necessary to the education of all UA students. It is dedicated to educating individuals based on the liberal arts philosophy of making each student a lifelong learner.

The college is committed to leadership in pedagogical innovation and the use of technology to further student learning. It values the traditional residential campus and is dedicated to providing an array of stimulating learning communities where students may grow personally and intellectually. The discovery and sharing of knowledge is at the heart of our enterprise. The College is committed to leadership in the creation, dissemination and application of knowledge and the preparation of future scholars. It accomplishes this by maintaining and enhancing both its nationally competitive faculty and its nationally ranked graduate and undergraduate programs.

Learning and quality of life are interrelated. As the state’s largest liberal arts college, the College of Arts and Sciences is central to the cultural, intellectual and social life on campus and in the community, state and region. It contributes fundamentally to the economic development of the state through teaching, creative activity, research and outreach.

The college holds to the principle that knowledge must serve humanity and the environment, and it is dedicated to global responsibility, justice and ethics.

**Special Emphases**

**Learner-Centered College**

The College of Arts and Sciences centers its considerable human and technological resources on the individual student and that student’s learning. In the Mathematics Technology Learning Center, students use computer-based instruction to learn at a pace suited to their individual needs. Technology used in other courses encourages active, not passive, interaction with course materials. The college seeks to educate self-reliant young men and women who know themselves and contribute significantly to their professions and communities.

**Undergraduate Research and Creative Activity**

Undergraduate students in the college have remarkable access to opportunities for research and creative activities under the guidance of faculty members. The opportunity to move from synthesizing information and ideas generated by others to creating new ways of knowing is a remarkable intellectual leap and one that many students in the College of Arts and Sciences take. The college sponsors undergraduate research days that encourage students to share their experiences.

**Advising for Other Health Professions**

While at The University of Alabama, students may prepare for professions in occupational therapy, veterinary medicine, chiropractic medicine, podiatry or any other health-related profession requiring an advanced degree. Required undergraduate courses vary considerably among these programs; therefore, students should make an appointment with the health professions advisers early in their academic programs to ensure that they are adequately prepared for admission to a graduate program following completion of a degree at The University of Alabama. For more information, contact the health professions advisers at (205) 348-5970 or visit our website at prehealth.ua.edu.

### Pre-Law Program

200 Clark Hall  
(205) 348-5970  
prealaw.ua.edu  
prealaw@as.ua.edu

The pre-law program works with students who are interested in law as a career. The pre-law advisor works with students to plan the courses and experiences that will best prepare them for law school, to decide which specific schools are best for them, and to complete the application process. Students preparing for law school may pursue different disciplinary interests. Several departments in the College of Arts and Sciences, including the Department of Philosophy, the Department of Political Science and New College, offer pre-law programs of study, but many other departments offer courses that prepare pre-law students. Visits to the UA Law School, shadowing, student organizations and internships are important parts of the pre-law experience.

Unlike some pre-professional programs that require specific courses, the pre-law program emphasizes the importance of broad liberal arts preparation. Courses that require substantial writing are good preparations for law school, as are those courses that require logical thinking and the construction of arguments. Appropriate courses range from English and history, to economics and mathematics, to communication studies. For examples of pre-law courses please visit prelaw.ua.edu.

The pre-law program advisers are the primary advisers for students who have an interest in pre-law. Once a student has formally declared an academic major, the pre-law adviser is available as a secondary source to assist specifically with issues related to pre-law preparation.
Blount Scholars Program
Endowed by Winton and Carolyn Blount and assisted by many other donors, the Blount Scholars Program is a four-year program offering students in the College of Arts and Sciences a unique opportunity for an enriched liberal arts education in a lively and enjoyable community of scholars. All entering freshmen in the college, regardless of their academic interests, are eligible to apply for admission. With courses and other activities, the program emphasizes the connectedness of knowledge and the importance of faculty-student learning partnerships. See the Blount Scholars Program (p. 968) section of this catalog.

Interdisciplinary Study
Virtually all of the programs of study in the College of Arts and Sciences emphasize interdisciplinary study. Whether a student's interest is American studies, studio art or biology, the ability to draw together learning from different fields, to integrate it and to use it later to analyze and solve problems in one's profession, community and own life is the key characteristic of a liberally educated person. Interdisciplinary learning is especially important to students' experiences in New College. New College seminars, which are open to all students, and the New College depth studies are hands-on experiences with interdisciplinary learning.

Learning Communities
In the College of Arts and Sciences, these take different forms, with some being residential communities and others not, but all fuse common academic experiences with out-of-class community. The college emphasizes the importance of these, especially for freshman students.

International Education
Citizenship is global. As the College prepares students for citizenship, this is emphasized across the curriculum. While the College has strong language programs, including the unique Critical Languages program in which students can study many of the world's diverse languages, global citizenship affects all of the disciplines. College of Arts and Sciences faculty lead many of the University's summer study abroad programs and direct semester-long programs for students in the college.

Academic Exploration
Many students enter the College of Arts and Sciences undecided about their academic direction. Students are encouraged to explore the resources of the College and the University during their first several semesters in order to make informed choices. The University's General Education Requirement, which includes every introductory course in the disciplines of the college, allows students to meet degree requirements while determining those fields of study that best fit with their talents and passions.

Pre-professional Preparation
Many College of Arts and Sciences graduates go on to medical school, law school, dental or optometry school, physical or occupational therapy programs or other health-related or professional study. Arts and Sciences majors receive excellent preparation for all of these programs, and the College's pre-professional advising programs are very supportive. Student organizations, including Alpha Epsilon Delta, the pre-medical honorary, of which UA is the Alpha chapter, are also important parts of pre-professional preparation.

Faculty
Administrative Officers
Robert F. Olin
Lisa Dorr

Tricia McElroy
Lisa Pawloski
Roger Sidje
Ray White
John Wingard

Administrative and Professional Staff
Cynthia H. Channell
Matt Chenault
Courtney Corbridge
Kaylee Crenshaw
Marian Denham
Pamela Derrick
Timothy Dillard
Cathy Elliott
Evelyn Famutimi
Kelli Harris
Don S. Hays
Kayla Johnson
Karen Kennedy
Stephanie Kirkland
Eve Machado
Wendy K. McMillian
Ryan Missanelli
Jake Paul
Kevin Reid
Tyler Roberts
Lanna Shelton
Lataundra Smith
Jeannie Thomley
James Vail
Macy Vintson

Department of American Studies
The Department of American Studies offers a Bachelor of Arts (BA) degree and a minor in American Studies. American Studies is the organized, interdisciplinary pursuit of knowledge about the national culture of the United States. Students can gain a comprehensive understanding of the American people’s ideals, values, and patterns of behavior, and how these change over time.

- Major
  - American Studies (BA) (p. 945)
- Minor
  - American Studies (p. 946)
AMS100 Special Topics
Hours 1
Selected American topics for lower-division undergraduate students offered by American studies faculty members or supervised teaching assistants. Some examples include the following five-week, one-hour courses: African-American Star Athletes, Superbowl Ads, Stand Up Comedy, Disney’s America, and Why Eat Local?.

AMS101 Special Topics
Hours 1
Selected American topics for lower-division undergraduates offered by American Studies faculty members or supervised teaching assistants.

Faculty
Chair
Adrian, Lynne
Associate professors
Hubbs, Jolene
Innis-Jimenez, Michael
Megraw, Richard B.
Melton, Jeffrey
Morgan, Stacy
Spears, Ellen
Tang, Edward
Weisbard, Eric
Assistant professors
Green, Hillary
Jones, Jennifer D.
Odle, L. Mairin

American Studies, BA

Students should have a strong interest in American culture and history. This can include the visual arts, music, and popular culture, as well as social movements and politics in any time period of U.S. history. Many students also have great interest in how America fits into the larger global picture. Curiosity about different parts of American culture and a willingness to explore new areas are essential. A desire to communicate ideas in writing is important. This major helps develop skills in connecting information, writing strong arguments, and reading for both fine detail and the big picture.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

Students have the opportunity to complete internships in a variety of settings. Students should contact the department for more information.

Students earning the bachelor of arts (BA) degree with a major in American studies must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 150</td>
<td>Arts And Values (Fall Only)</td>
</tr>
<tr>
<td>AMS 151</td>
<td>Intro: World Nation &amp; Region (Spring Only)</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>AMS 203</td>
<td>Southern Studies</td>
</tr>
<tr>
<td>AMS 204</td>
<td>Intro to Western Studies</td>
</tr>
<tr>
<td>AMS 205</td>
<td>Dirty Jobs</td>
</tr>
<tr>
<td>AMS 206</td>
<td>Native American Studies</td>
</tr>
<tr>
<td>AMS 231</td>
<td>Contemporary America</td>
</tr>
<tr>
<td>AMS 492</td>
<td>American Topic Seminar</td>
</tr>
<tr>
<td>AMS electives 400 level</td>
<td>6</td>
</tr>
<tr>
<td>AMS elective 300 or 400 level</td>
<td>3</td>
</tr>
<tr>
<td>AMS electives any level</td>
<td>6</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ancillary Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades in ancillary courses are not computed into the major GPA. The major in American studies requires the successful completion of the following courses outside the major:</td>
<td></td>
</tr>
<tr>
<td>HY 103 or</td>
<td>American Civilization to 1865</td>
</tr>
<tr>
<td>HY 107</td>
<td>Honors Am Civ to 1865</td>
</tr>
<tr>
<td>HY 104 or</td>
<td>Am Civ Since 1865</td>
</tr>
<tr>
<td>HY 108</td>
<td>Honors Am Civ Sc 1865</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>EN 209</td>
<td>American Literature</td>
</tr>
<tr>
<td>EN 219</td>
<td>Honors American Literature</td>
</tr>
<tr>
<td>EN 210</td>
<td>American Literature II</td>
</tr>
<tr>
<td>EN 220</td>
<td>Honors American Literature II</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>39</td>
</tr>
</tbody>
</table>

1 Other than AMS 400 Internship, AMS 403 Honors Research - Ams or AMS 405 Directed Study.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and be approved for registration each semester. College advisers are also
available for additional assistance with minor, College and University requirements.

**Prerequisites**

Unless otherwise stated, the prerequisite for 300-level AMS courses is six hours in American studies or permission of the instructor, and the prerequisite for 400-level AMS courses is nine hours in American studies or permission of the instructor.

Many career opportunities exist for American Studies majors. Many students attend law school, library school, or pursue advanced degrees. American Studies majors teach in secondary schools, junior colleges, and universities and work for historical commissions, arts alliances, museums, libraries, and the private sector.

**Types of Jobs Accepted**

Recent graduates have accepted jobs in libraries, museums, student services, tourism, secondary education, junior college teaching, advertising, public relations, journalism, and labor relations.

**Jobs of Experienced Alumni**

Jobs held by alumni include attorney; university trustee; university external affairs and development director; school counselor; principal; museum sales manager; museum consultant; public relations specialist; library collection curator; special collections librarian; public television production manager; fiction and biography author; popular music critic; publishing account executive; arts alliance programs director; community celebration and documentation coordinator; educational programmer; Jessie Ball DuPont Fund executive director; advertising website developer; public health counselor; Department of Labor wage and hour investigator; architectural historian; congressional press secretary.

Learn more about opportunities in this field at the Career Center.

**American Studies, Minor**

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 150 Arts And Values</td>
<td>3</td>
</tr>
<tr>
<td>AMS 151 Intro: World Nation &amp; Region</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>AMS 203 Southern Studies</td>
<td>3</td>
</tr>
<tr>
<td>AMS 204 Intro to Western Studies</td>
<td></td>
</tr>
<tr>
<td>AMS 205 Dirty Jobs</td>
<td></td>
</tr>
<tr>
<td>AMS 206 Native American Studies</td>
<td></td>
</tr>
<tr>
<td>AMS 231 Contemporary America</td>
<td>3</td>
</tr>
<tr>
<td>AMS electives 400 level</td>
<td>3</td>
</tr>
<tr>
<td>AMS electives 300 or 400 level</td>
<td>3</td>
</tr>
<tr>
<td>AMS electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td>21</td>
</tr>
</tbody>
</table>

**Ancillary Courses**

Grades in ancillary courses are not computed into the minor GPA. This minor requires the successful completion of the following courses outside the minor:

- Select one of the following American History courses: 3 hours
  - HY 103 American Civilization to 1865
  - HY 104 Am Civ Since 1865
  - HY 107 Honors Am Civ to 1865
  - HY 108 Honors Am Civ Sc 1865

- Select one of the following American Literature EN electives: 3 hours
  - EN 209 American Literature
  - EN 210 American Literature II
  - EN 219 Honors American Literature
  - EN 220 Honors American Literature II

| Credit Hours Subtotal: | 6 |

**Total Hours** 27

1 Other than AMS 400 Internship.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

**Additional Minor Requirements**

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Prerequisites**

Unless otherwise stated, the prerequisite for 300-level AMS courses is six hours in American studies or permission of the instructor, and the prerequisite for 400-level AMS courses is nine hours in American studies or permission of the instructor.

**Department of Anthropology**

19 ten Hoor Hall
205-348-5947

Anthropology is the study of humans, both past and present, and includes specializations in archaeology, cultural anthropology, biological anthropology and linguistics. The Department of Anthropology offers a bachelor of arts (BA) degree, a minor in anthropology and an evolutionary studies (EvoS) interdisciplinary minor. Students may also pursue a Archaeology of the Americas or Health Professions concentration.

Students are expected to meet the director of undergraduate studies as soon as they declare a major or minor in anthropology. The director will advise them of curriculum requirements and assign a faculty adviser in the anthropology department.

- **Major**
  - Anthropology (BA) (p. 947)
- **Minors**
Anthropology students are typically interested in a wide range of topics, unified only by their connection to the human condition. These interests range from the reconstruction of the evolutionary processes leading to modern humans to complex issues concerning contemporary human cultural diversity. Many students are fascinated by the archaeological remains of the peoples who previously occupied not only our region, but many other areas of the world. Many of our students are interested in traveling, meeting people of other societies, viewing museum exhibits, analyzing artifacts, interviewing and learning techniques of observation, learning new languages and developing excellent cross-cultural communication skills. Anthropology students acquire skills that serve them in many different settings and occupations, including how to communicate with people of different cultures, how to recognize the varied perspectives that characterize people from different societies, how to gather and interpret data about human beings and how to obtain funding and work within a budget.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students are expected to meet the director of undergraduate studies as soon as they declare a major in Anthropology. The director will advise them of curriculum requirements, assign an adviser in the department, and answer any questions concerning curriculum.

Special Opportunities

The department sponsors a local chapter of Lambda Alpha, a national anthropology honor society. Membership requires junior standing, at least 12 hours of completed coursework in the major and a minimum cumulative GPA of 2.5. The department also supports an active student-run Anthropology Club, which is involved in archaeological digs, the Moundville Native American Festival, and many other academic and recreational activities throughout the year.

Students earning the bachelor of arts (BA) degree with a major in anthropology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 102 Intro to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 107 Intro to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 210 Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 270 Biological Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANT 421 or Ethnography</td>
<td>3</td>
</tr>
<tr>
<td>ANT 440 Culture</td>
<td></td>
</tr>
<tr>
<td>ANT archaeology 300-400 level (^1)</td>
<td>3</td>
</tr>
<tr>
<td>ANT biological 300-400 level (^2)</td>
<td>3</td>
</tr>
</tbody>
</table>
Undergraduate Catalog

ANT electives 300-400 level
ANT elective 100-400 level
Credit Hours Subtotal: 31

Archaeology Courses
The archaeology requirement must be completed from this list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 318</td>
<td>Ancient Cities and Empires</td>
</tr>
<tr>
<td>ANT 319</td>
<td>Ancient New World Civilization</td>
</tr>
<tr>
<td>ANT 368</td>
<td>Southeastern Archaeology</td>
</tr>
<tr>
<td>ANT 408</td>
<td>Ancient Mexican Civilization</td>
</tr>
<tr>
<td>ANT 409</td>
<td>Ancient Maya Civilization</td>
</tr>
<tr>
<td>ANT 424</td>
<td>Cultural Resource Management</td>
</tr>
<tr>
<td>ANT 428</td>
<td>North American Archaeology</td>
</tr>
<tr>
<td>ANT 444</td>
<td>Anthropology and Cemeteries</td>
</tr>
<tr>
<td>ANT 460</td>
<td>Anthropology and Museums</td>
</tr>
<tr>
<td>ANT 462</td>
<td>Ancient Andean Civilizations</td>
</tr>
<tr>
<td>ANT 466</td>
<td>Laboratory Methods Archaeology</td>
</tr>
<tr>
<td>ANT 468</td>
<td>Ceramics for the Archaeologist</td>
</tr>
</tbody>
</table>

Biological Anthropology Courses
The biological anthropology course must be completed from this list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 311</td>
<td>Pop., Health &amp; Human Origins</td>
</tr>
<tr>
<td>ANT 312</td>
<td>Non-Human Primates</td>
</tr>
<tr>
<td>ANT 471</td>
<td>Fossil Humans and Evolution</td>
</tr>
<tr>
<td>ANT 473</td>
<td>Human Osteology</td>
</tr>
<tr>
<td>ANT 474</td>
<td>Neuroanthropology</td>
</tr>
<tr>
<td>ANT 475</td>
<td>Biology, Culture, &amp; Evolution</td>
</tr>
<tr>
<td>ANT 478</td>
<td>Anthro of Human Development</td>
</tr>
<tr>
<td>ANT 479</td>
<td>Human Paleopathology</td>
</tr>
</tbody>
</table>

Cultural Anthropology/Linguistics Electives
Possible 300+ electives in cultural anthropology and linguistics can be completed from this list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 401</td>
<td>Linguistic Anthropology</td>
</tr>
<tr>
<td>ANT 402</td>
<td>Gender, Ethnicity, and Health</td>
</tr>
<tr>
<td>ANT 405</td>
<td>Culture, Mind, and Behavior</td>
</tr>
<tr>
<td>ANT 410</td>
<td>Ethnography of Communication</td>
</tr>
<tr>
<td>ANT 411</td>
<td>Culture, Health, &amp; Healing</td>
</tr>
<tr>
<td>ANT 412</td>
<td>Peoples of Europe</td>
</tr>
<tr>
<td>ANT 413</td>
<td>Peoples of Latin Amer</td>
</tr>
<tr>
<td>ANT 418</td>
<td>Dev Non-West Cultures</td>
</tr>
<tr>
<td>ANT 419</td>
<td>Myth, Ritual, And Magic</td>
</tr>
<tr>
<td>ANT 438</td>
<td>Anthropology of Art</td>
</tr>
<tr>
<td>ANT 440</td>
<td>Culture</td>
</tr>
<tr>
<td>ANT 401</td>
<td>Linguistic Anthropology</td>
</tr>
</tbody>
</table>

Concentration
Select a concentration

1 or any other 300- or 400-level archaeology course
2 or any 300- or 400-level biological anthropology course

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses
The major in anthropology does not require ancillary courses. However, students considering graduate school are encouraged to study a foreign language.

Required Minor
This major requires the completion of a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
The prerequisites for 300+ level ANT courses include introductory courses specific to a subfield (i.e., ANT 102 Intro to Cultural Anthropology is required to enroll in upper level courses in cultural anthropology, ANT 107 Intro to Archaeology is required to enroll in upper level courses in archaeology, ANT 210 Language and Culture is required to enroll in upper level courses in linguistic anthropology, and ANT 270 Biological Anthropology is required to enroll in upper level courses in biological anthropology). Independent research classes require at least 6 hours of ANT classes be completed prior to enrollment. If a student lacks the necessary credits or courses, they may request permission to enroll from the instructor.

Concentrations
Students are able to concentrate in two areas: Health Professions and Archaeology of the Americas. Courses that apply to concentrations also fulfill major requirements; therefore, no additional hours are required for concentrations.

Health Professions Concentration
Students pursuing a major or minor in anthropology who are interested in a career in health professions such as medicine, nursing, public health, health policy, epidemiology, medical anthropology or medical sociology can choose a sequence of courses in the health professions concentration. These students should choose the anthropology electives from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 411</td>
<td>Culture, Health, &amp; Healing</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 208</td>
<td>Anthropology of Sex</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Race, Ethnicity, &amp; Human Var.</td>
</tr>
<tr>
<td>ANT 311</td>
<td>Pop., Health &amp; Human Origins</td>
</tr>
<tr>
<td>ANT 322</td>
<td>Anthropology of CAM</td>
</tr>
<tr>
<td>ANT 402</td>
<td>Gender, Ethnicity, and Health</td>
</tr>
<tr>
<td>ANT 405</td>
<td>Culture, Mind, and Behavior</td>
</tr>
<tr>
<td>ANT 419</td>
<td>Myth, Ritual, And Magic</td>
</tr>
<tr>
<td>ANT 478</td>
<td>Anthro of Human Development</td>
</tr>
</tbody>
</table>

Grade Points
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses
The major in anthropology does not require ancillary courses. However, students considering graduate school are encouraged to study a foreign language.

Required Minor
This major requires the completion of a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
The prerequisites for 300+ level ANT courses include introductory courses specific to a subfield (i.e., ANT 102 Intro to Cultural Anthropology is required to enroll in upper level courses in cultural anthropology, ANT 107 Intro to Archaeology is required to enroll in upper level courses in archaeology, ANT 210 Language and Culture is required to enroll in upper level courses in linguistic anthropology, and ANT 270 Biological Anthropology is required to enroll in upper level courses in biological anthropology). Independent research classes require at least 6 hours of ANT classes be completed prior to enrollment. If a student lacks the necessary credits or courses, they may request permission to enroll from the instructor.

Concentrations
Students are able to concentrate in two areas: Health Professions and Archaeology of the Americas. Courses that apply to concentrations also fulfill major requirements; therefore, no additional hours are required for concentrations.

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Students pursuing a major or minor in anthropology who are interested in a career in health professions such as medicine, nursing, public health, health policy, epidemiology, medical anthropology or medical sociology can choose a sequence of courses in the health professions concentration. These students should choose the anthropology electives from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 411</td>
<td>Culture, Health, &amp; Healing</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 208</td>
<td>Anthropology of Sex</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Race, Ethnicity, &amp; Human Var.</td>
</tr>
<tr>
<td>ANT 311</td>
<td>Pop., Health &amp; Human Origins</td>
</tr>
<tr>
<td>ANT 322</td>
<td>Anthropology of CAM</td>
</tr>
<tr>
<td>ANT 402</td>
<td>Gender, Ethnicity, and Health</td>
</tr>
<tr>
<td>ANT 405</td>
<td>Culture, Mind, and Behavior</td>
</tr>
<tr>
<td>ANT 419</td>
<td>Myth, Ritual, And Magic</td>
</tr>
<tr>
<td>ANT 478</td>
<td>Anthro of Human Development</td>
</tr>
</tbody>
</table>
Southeastern Archaeology Concentration

This minor does not require ancillary courses.

**Additional Minor Requirements**

Students are responsible for ensuring they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Prerequisites**

Unless otherwise stated, the prerequisite for 300- and 400-level ANT courses is 12 credits in anthropology, typically including introductory courses specific to a subfield (i.e., ANT 102 Intro to Cultural Anthropology, ANT 107 Intro to Archaeology, ANT 210 Language and Culture, ANT 270 Biological Anthropology). If students lack necessary credits or courses, they may request permission from the instructor.

**Evolutionary Studies, Minor**

The Evolutionary Studies (EvoS) program is an interdisciplinary minor. The minor combines courses in biology, anthropology, geology, psychology, philosophy, astronomy, history, and others. Students are required to complete at least 20 credits that will introduce them to the principles of evolution and its numerous applications for understanding all life. The purpose of this program is to provide students a foundation in one of the most important explanatory theories of modern thought.

This minor includes two team-taught Capstone courses that are integrated with the University's Alabama Lecture's on Life's Evolution (ALLELE) series. This integration enables students to interact with invited speakers from various disciplines inside and outside the classroom, exposure intended to provide students with a vantage on post-baccalaureate opportunities for people with training in Evolutionary Studies. Speakers for the ALLELE series change annually, and a list of current and past speakers can be found here.

EvoS is part of a worldwide consortium that includes more than 40 other institutions. This affiliation provides students access to additional resources outside UA, including the student-oriented, peer-reviewed EvoS

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**Types of Jobs Accepted**

Graduates of the Department of Anthropology at UA have gone on to pursue advanced degrees, found employment in institutions of higher learning, in private cultural resource firms, in journalism and in public health entities (both in the U.S. and abroad.)

**Jobs of Experienced Alumni**

Peace Corps volunteer in Nepal; professor, vice president of public service and outreach; Center for Disease Control specialist; archaeologist with the National Park Service, National Forest Service, Bureau of Land Management or the U.S. Army Corps of Engineers; consumer habit researcher with Microsoft; product promotion strategist with AT&T.

Learn more about opportunities in this field at the Career Center.

---

**EvoS**

- Human Paleopathology
  - ANT 479
  - Total Hours: 9

**Southeastern Archaeology Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 269 Field Archaeology (3 hours of this 6-12 course will apply)</td>
<td>3</td>
</tr>
<tr>
<td>ANT 466 Laboratory Methods Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ANT 368 Southeastern Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 424 Cultural Resource Management</td>
<td></td>
</tr>
<tr>
<td>ANT 428 North American Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANT 445 Historical Archaeology</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students with anthropology degrees have employment opportunities in educational institutions, museums, non-profit and non-governmental organizations, international agencies, marketing (and other aspects of commerce), health agencies, the Park and Forest services, the Bureau of Land Management, U.S. Army Corps of Engineers, state historic preservation offices, cultural resource management firms and many other professions.

---

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

**Ancillary Courses**

This minor does not require ancillary courses.

---

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students are expected to meet the director of undergraduate studies as soon as they declare a minor in Anthropology. The director will advise them of curriculum requirements and answer any questions concerning curriculum.

---

**Anthropology, Minor**

**Minor Courses**

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

---

**Minor Requirements**

- Students are expected to complete at least 18 credits or courses, they may request permission from the instructor.

---

**Additional Minor Requirements**

- Students are responsible for ensuring they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

---

**Prerequisites**

Unless otherwise stated, the prerequisite for 300- and 400-level ANT courses is 12 credits in anthropology, typically including introductory courses specific to a subfield (i.e., ANT 102 Intro to Cultural Anthropology, ANT 107 Intro to Archaeology, ANT 210 Language and Culture, ANT 270 Biological Anthropology). If students lack necessary credits or courses, they may request permission from the instructor.

---

**Evolutionary Studies, Minor**

The Evolutionary Studies (EvoS) program is an interdisciplinary minor. The minor combines courses in biology, anthropology, geology, psychology, philosophy, astronomy, history, and others. Students are required to complete at least 20 credits that will introduce them to the principles of evolution and its numerous applications for understanding all life. The purpose of this program is to provide students a foundation in one of the most important explanatory theories of modern thought.

This minor includes two team-taught Capstone courses that are integrated with the University's Alabama Lecture's on Life's Evolution (ALLELE) series. This integration enables students to interact with invited speakers from various disciplines inside and outside the classroom, exposure intended to provide students with a vantage on post-baccalaureate opportunities for people with training in Evolutionary Studies. Speakers for the ALLELE series change annually, and a list of current and past speakers can be found here.

EvoS is part of a worldwide consortium that includes more than 40 other institutions. This affiliation provides students access to additional resources outside UA, including the student-oriented, peer-reviewed EvoS.
For more information or to enroll, contact program director Dr. Christopher Lynn (Anthropology).

### Declaring a Minor in Evolutionary Studies

There are no prerequisites for admission to the EvoS minor. Students are expected to formally declare the EvoS minor with the assistance of the EvoS program director, Christopher Lynn (cdlynn@ua.edu).

#### Foundation Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>Evolution for Everyone</td>
<td>3</td>
</tr>
<tr>
<td>BSC 220</td>
<td>Biol Evol</td>
<td>3</td>
</tr>
<tr>
<td>ANT 480</td>
<td>Advanced EvoS</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 270</td>
<td>Biological Anthropology</td>
<td>3-4</td>
</tr>
<tr>
<td>GEO 102</td>
<td>The Earth Through Time</td>
<td></td>
</tr>
<tr>
<td>PHL 387</td>
<td>Philosophy and Evolution</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 12-13

#### Integrative Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 431</td>
<td>Readings In Anth</td>
<td>1-3</td>
</tr>
<tr>
<td>ANT 451</td>
<td>Undergraduate Research (Should be taken in major department)</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 2-9

#### Elective Context Courses

Select six or more course credits from at least two different departments that are not your major

Credit Hours Subtotal: 6

Total Hours 20-28

### Elective Context Areas

#### Anthropology Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 208</td>
<td>Anthropology of Sex</td>
<td>3</td>
</tr>
<tr>
<td>ANT 270</td>
<td>Biological Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Race, Ethnicity, &amp; Human Var.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 311</td>
<td>Pop., Health &amp; Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ANT 312</td>
<td>Non-Human Primates</td>
<td>3</td>
</tr>
<tr>
<td>ANT 471</td>
<td>Fossil Humans and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>ANT 473</td>
<td>Human Osteology</td>
<td>4</td>
</tr>
<tr>
<td>ANT 475</td>
<td>Biology, Culture, &amp; Evolution</td>
<td>3</td>
</tr>
<tr>
<td>ANT 479</td>
<td>Human Paleopathology</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Astronomy Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY 155</td>
<td>Life in the Universe</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Biological Sciences Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 315</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BSC 373</td>
<td>Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 400</td>
<td>Vertebrate Funct Morphol</td>
<td>4</td>
</tr>
<tr>
<td>BSC 420</td>
<td>Principles Of Systematics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 428</td>
<td>Biology Of Fishes</td>
<td>4</td>
</tr>
<tr>
<td>BSC 434</td>
<td>Plant Systematics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 441</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 442</td>
<td>Integrated Genomics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 448</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BSC 449</td>
<td>Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 464</td>
<td>Biology Of Algae</td>
<td>4</td>
</tr>
<tr>
<td>BSC 470</td>
<td>Prin Pop Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BSC 482</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 483</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BSC 487</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 102</td>
<td>The Earth Through Time</td>
<td>4</td>
</tr>
<tr>
<td>GEO 355</td>
<td>Invertebrate Paleontology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 367</td>
<td>Sedimentology/Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GEO 401</td>
<td>Paleoclimatology</td>
<td>3</td>
</tr>
</tbody>
</table>

#### History Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 455</td>
<td>The Darwinian Revolution</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Philosophy Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 387</td>
<td>Philosophy and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>PHL 390</td>
<td>Special Topics in Philosophy</td>
<td>1-3</td>
</tr>
</tbody>
</table>

#### Psychology Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 313</td>
<td>Sensation and Perception</td>
<td>3</td>
</tr>
<tr>
<td>PY 352</td>
<td>Developmental Psych</td>
<td>3</td>
</tr>
<tr>
<td>PY 413</td>
<td>Physiological Psych</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Journalism and Creative Media Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 372</td>
<td>Media Effects</td>
<td>3</td>
</tr>
<tr>
<td>JCM 448</td>
<td>News Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

#### University Honors (UH) Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UH 300</td>
<td>Honors Spec Topics Sem (Topics in Vertebrate Paleontology)</td>
<td>3</td>
</tr>
<tr>
<td>UH 300</td>
<td>Honors Spec Topics Sem (Primate Religion &amp; Human Consciousness)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Department of Art and Art History

The Department of Art and Art History offers undergraduate programs in studio art (BA and BFA) and in art history (BA). The Bachelor of Arts degree (BA) offers an expansive educational experience and is designed to allow the greatest flexibility in customizing the degree program to meet individual goals and interests. The Bachelor of Fine Arts degree
(BFA) is the professional degree for studio arts and is designed for individuals who are certain that they want to enter an art field or to continue their education at the graduate level. It provides extensive training in a variety of studio areas and allows for specialization within the field.

The department also offers graduate programs in both areas. For information on these programs, please see the graduate catalog.

The Bachelor of Arts in art history is designed to provide undergraduate students with a broad and comprehensive knowledge of the history of world art. In art history, students will learn the history of major works and movements in the Western world, gain an exposure to global trends in art, develop abilities of distinguishing different styles in art and acquire a basic understanding of art theory and aesthetics. Students will learn to think critically about art and its history, including the ability to discern the implication of concepts like “masterpiece,” to understand how “high art” and “popular culture” interact, to discover why strategies of exhibition and display influence our perception of art, and to determine how issues of identity inform the history of art and art production.

Studio art majors develop their intellect, perception and creativity while engaged in the visual arts within the context of a universitywide undergraduate liberal arts curriculum. Studio art programs provide education and training for those wishing to become professional visual artists or to work in arts-related fields. While the objectives of study are not primarily vocational, students will acquire knowledge and skills that may lead to employment in arts-related fields such as teaching, design, communication arts, art therapy, gallery work, or museum administration. After completing a series of foundation courses, students are able to focus their coursework in one of seven media areas: ceramics, digital media (graphic design/digital arts/animation), drawing, painting, photography, printmaking, or sculpture.

- **Majors**
  - Art History (BA) (p. 952)
  - Studio Art (BA) (p. 955)
  - Studio Art (BFA) (p. 956)

- **Minors**
  - Art History (p. 953)
  - Art (Studio) (p. 951)
  - Medieval and Early Modern European Studies (p. 953)

[Object]

**ARH151 Intro to Visual Arts**

**FA**

**Hours 3**

Not applicable to the studio or art history majors or minors. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.

**Fine Arts**

**ART110 Drawing I**

**Hours 3**

Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

**Faculty**

**Chair**

Guynes, Jason

**Professors**

Wedderspoon, Craig

Guynes, Jason

**Associate Professors**

Jordan, Christopher

Curzon, Lucy

Shineman, Sky

Dooley, William

Marshall, Sarah

**Assistant Professors**

Speed, Bryce

Pham, Giang

Cassidy, Jane

Feltman, Jennifer

Jones, Tanja

Mitros, Matthew

Schulte, Pete

Stephens, Rachel

Castenell, Wendy

**Art (Studio), Minor**

**Admission into the Minor**

Students may formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Minor Courses**

<table>
<thead>
<tr>
<th>Select two of the following:</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110 Drawing I</td>
<td>6</td>
</tr>
<tr>
<td>ART 130 2D Design</td>
<td></td>
</tr>
<tr>
<td>ART 131 3D Design</td>
<td></td>
</tr>
<tr>
<td>ART 210 Drawing II</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

**Electives**

| ART elective 300 or 400 level | 6 |
| ART elective | 6 |

Credit Hours Subtotal: 12

| ARH elective 300 or 400 level | 3 |

Total Hours 21

**Grade Point Average**

A 2.0 grade point average in the minor is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.
Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
ARH 151 Intro to Visual Arts is not applicable to the minor in studio art. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College, and University requirements.

Faculty
Chair
Jason Guynes

Professors
Jason Guynes
Craig Wedderspoon

Associate professors
William Dooley
Christopher Jordan
Sarah Marshall
Sky Shineman

Assistant professors
Jane Cassidy
Matthew Mitros
Giang Pham
Pete Schulte
Bryce Speed

Art History, BA
Art History students are typically interested in studying works of art as representative of certain historical periods, learning the skills of formal analysis, understanding the social production of art, and discovering the role that museums and art galleries play in our contemporary culture. High school preparation may include some classes in studio art or art history, but these are not necessary for entrance into the major.

Admission into the Major
There is no formal admissions process to the Art History BA program beyond the general UA admissions process. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Degree Requirements
Students earning the bachelor of arts (BA) degree with a major in art history must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ARH 252 Survey of Art I</td>
<td></td>
</tr>
<tr>
<td>ARH 253 Survey of Art II</td>
<td></td>
</tr>
<tr>
<td>ARH 254 Survey of Art III</td>
<td></td>
</tr>
<tr>
<td>ARH electives 300 or 400 level</td>
<td>9</td>
</tr>
<tr>
<td>Non-Western</td>
<td>3</td>
</tr>
<tr>
<td>ARH 254 Survey of Art III</td>
<td></td>
</tr>
<tr>
<td>ARH 352 Early Christian Byzantine Art</td>
<td></td>
</tr>
<tr>
<td>ARH 358 Islamic Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARH electives</td>
<td>15</td>
</tr>
<tr>
<td>Theories and Methods of Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARH 490 Theories and Methods Art Hist.</td>
<td></td>
</tr>
</tbody>
</table>

400-level seminar in specific topic area 3
It is advised (although not required) that ARH 490 and the 400-level seminar should be taken in sequence as a senior Capstone experience.

These include:

<table>
<thead>
<tr>
<th>ARH Courses</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 455</td>
<td>Topics in Asian Art</td>
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<tr>
<td>ARH 461</td>
<td>Topics in Medieval Art</td>
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<tr>
<td>ARH 467</td>
<td>Topics in Renaissance Art</td>
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<tr>
<td>ARH 477</td>
<td>Topics in American Art</td>
</tr>
<tr>
<td>ARH 481</td>
<td>Topics in 20th Century Art</td>
</tr>
<tr>
<td>ARH 488</td>
<td>Topics in African American Art</td>
</tr>
</tbody>
</table>

Ancillary Courses
Grades in ancillary courses are not computed into the major GPA. The major in art history requires the successful completion of the following courses outside the major:

| ART electives | 6 |
| FR or GN | 6-8 |

Total Hours 51-53

1. Successful completion of one year of university-level proficiency or equivalent proficiency in a single foreign language, preferably French or German, is required. It is recommended (but not required) that students, especially those considering graduate work in Art History, pursue study of that foreign language for a second year (or through the 200 level).

Upper-level Residency
A minimum of 12 hours in 300- and 400-level courses in the major must be earned on this campus.

Required Minor
This major requires the completion of a minor.

Additional Minor Requirements
ARH 151 Intro to Visual Arts is not applicable to the major in art history. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.
Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

The BA in art history degree provides the student with the knowledge of art history required for employment in related fields, such as art librarianship, K-12 art instruction and museum and gallery work. Students interested in pursuing a career in the fields of museum curatorial work and university-level teaching will need to continue studies at the graduate level.

Types of Jobs Accepted
Recipients of the Bachelor of Arts in art history from The University of Alabama accepted jobs in a variety of fields, including various public arts organizations; museums; public and private art galleries; and K-12 education. Many continue in higher education and have been accepted into the graduate programs of City University of New York, Emory University, Kansas University, Texas University, Florida State University, The University of Alabama, and many other institutions of higher learning.

Jobs of Experienced Alumni
Our experienced alumni include professors of art history, museum curators, museum educators, and historic preservation specialists.

Learn more about opportunities in this field at the Career Center

Faculty
Chair
Jason Guynes

Assistant professors
Wendy Castenell
Jennifer Feltman
Tanja Jones
Rachel Stephens

Associate professor
Lucy Curzon

Art History, Minor
Admission into the Minor
Students may formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ARH 252 Survey of Art I</td>
<td></td>
</tr>
<tr>
<td>ARH 253 Survey Of Art II</td>
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</tr>
<tr>
<td>ARH 254 Survey Of Art III</td>
<td></td>
</tr>
<tr>
<td>ARH electives 300 or 400 level</td>
<td>6</td>
</tr>
<tr>
<td>ARH electives</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ancillary Courses</th>
<th>Credit Hours Subtotal:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hours Subtotal:</td>
<td>18</td>
</tr>
</tbody>
</table>

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
ARH 151 Intro to Visual Arts is not applicable to the minor in art history. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Faculty
Chair
Jason Guynes

Assistant professors
Wendy Castenell
Jennifer Feltman
Tanja Jones
Rachel Stephens

Associate professor
Lucy Curzon

Medieval and Early Modern European Studies Minor
The minor in Medieval and Early Modern European Studies (MEMES) is an interdisciplinary program designed to encourage student engagement with faculty in medieval and early modern fields (300-1800 CE), with a focus on Europe and across multiple departments. This program extends student opportunities for critical thinking and engagement with a range of relevant issues and materials.

Admission to the Minor
For admission to the minor, students should meet with the Program Director (Dr. Tanja Jones, Art History, tjones10@ua.edu)

Program Requirements
The Minor in Medieval and Early Modern European Studies requires a minimum of 18 credit hours (outside of the major or other minors*), and includes an ancillary language requirement. At least 6 credits applied to the Minor must be 300-400 level courses taken on the UA campus.

*see the exemption notation under 3. Ancillary Language Requirement

To fulfill the Minor requirements, students must complete the following:
1. Research Colloquium (3 hours)
2. Courses in at least 3 separate Areas of Study (12 hours)
3. Ancillary language requirement
4. Capstone Research Project (3 hours)

1. Required Introductory Colloquium (3 hours)
   - Students will participate in the Medieval and Early Modern European Colloquium (AS 220), a seminar under the direction of the Program Director. The course is designed to introduce students to broad issues, methods, and areas of study in the field via readings and interactions with participating faculty through guest lectures and related activities. It is intended to prepare students for curriculum options at the 300 and 400 levels but is not a pre-requisite to completion of those.

2. Areas of Study (12 hours total)
   - Students will take a total of 4 courses from at least 3 participating departments, outside their major requirements or other minors.
   - Courses must be selected from the following (other courses may be substituted with pre-approval):
     - **American Studies**
       - AMS 470 Natives and Newcomers
     - **Art & Art History**
       - ARH 352 Early Christian Byzantine Art
       - ARH 360 Early Medieval Art
       - ARH 361 Late Medieval Art
       - ARH 365 Northern Renaissance Art
       - ARH 367 Art Patronage Florence (Study Abroad)
       - ARH 368 Early Renaissance Art
       - ARH 369 Later Italian Renaissance Art
       - ARH 371 Baroque Art South Europe
       - ARH 373 Baroque Art North Europe
       - 400-level Topics (pre-approval required based upon topic)
     - **Communication Studies**
       - COM 301 Intro Rhetorical Theory
     - **English**
       - EN 330 Chaucer And Medieval Literature
       - EN 331 Chaucer
       - EN 332 Sixteenth Century Literature
       - EN 333 Shakespeare
       - EN 334 Seventeenth Century Literature
       - EN 335 Milton
       - EN 347 English Lit During Enlightenmnt
       - 400-level Topics (pre-approval required based upon topic)
     - **History**
       - HY 101 Western Civ To 1648 or HY 105 Honors West Civ To 1648
       - HY 115 History of Science to 1687
       - HY 235 Christ Church To 1500

   HY 247 England To 1688
   HY 370 A history of the Atlantic World, 1400-1800
   HY 386 History Of Rome
   HY 388 The Crusades
   HY 442 The Middle Ages
   HY 443 Renaissance
   HY 444 Reform & Counter-Reformation
   HY 451 Early Modern Germany
   HY 471 Age Exploration & Conquest
   HY 481 War/Dipl. in Med & Mod. Europe
   HY 482 War & Religion in the West
   HY 483 Thirty Years’ War
   HY 490 England under Tudors
   HY 491 England under Stuarts
   HY 493 Britain in the 18th Century

   **Modern Languages & Classics**
   - CL 222 Greek Roman Mythology
   - CL 350 Roman Religion
   - FR 341 Survey Fr Literature I*
   - GN 250 Germanic Mythology
   - GN 264 German Literature Translatn I
   - GN 371 Gn Cult Civil Thru 1832*
   - RUS 223 Rus Lit in Trans I
   - SP 371 Survey Of Spanish Lit*
   - SP 491 Cervantes*
   - * designates a course taught in subject language (not English)

   **Music**
   - MUS 251 Music History I
   - MUS 427 Studies In Special Lit (pre-approval required based upon topic)

   **Philosophy**
   - PHL 212 Early Modern Philosophy

   **Political Science**
   - PSC 353 Modern Political Thought
   - PSC 321 Special Topics In PSC / HY 300 Special Studies in History (European Liberalism, Crisis, and Scandinavian Drama, and Historic Perspective)

   **Theatre**
   - TH 451 Hist Of The Theatre I

3. Ancillary Language Requirement
   Students must complete the ancillary requirement for the Minor by fulfilling one of the following options: *
   - Both 101 and 102 of Latin, Italian, Greek, German, Spanish, French, or Arabic OR
• 103 of one of the languages noted above OR
• 104 of one of the languages noted above OR
• any 3-hour course (other than those listed in section 2 above) at the 200-level or higher in one of the languages noted above

*Students already meeting these language requirements as part of their major or another minor may apply them (and the same language) to the MEMES Minor; additional or other languages may be applied to the minor as applicable and if approved by the Program Director.

4. Capstone Research Project (3 hours)

• No later than the end of the semester prior to completion of the Minor requirements, students will propose a Final Research Project (as a 3 hour Independent Research course) that reflects the intended spirit of the Minor based upon their experiences in Minor coursework. The proposal will be reviewed for pre-approval by the Program Director and a Faculty Mentor in one of the participating Departments. During the final semester of the Minor, the student will complete the project under the supervision of the Faculty Mentor with a Reader from a second participating Department. This should result in an appropriate project such as a paper, poster, performance, website, or exhibition.

Grade point average:
A 2.5 grade point average in the minor is required. The minor GPA is calculated based on all courses applied to the minor.

Studio Art, BA

The Bachelor of Arts degree (BA) in Studio Art offers an expansive educational experience and is designed to allow the greatest flexibility in customizing the degree program to meet individual goals and interests.

Studio art majors develop their intellect, perception, and creativity while engaged in the visual arts within the context of a universitywide undergraduate liberal arts curriculum. Studio art programs provide education and training for those wishing to become professional visual artists and designers, or to work in arts-related fields. While the objectives of study are not primarily vocational, students will acquire knowledge and skills that may lead to employment in arts-related fields such as teaching, design, communication arts, art therapy, gallery work, or museum administration. After completing a series of foundation courses, students are able to focus their coursework in one of seven media areas: ceramics, digital media (graphic design/digital arts/animation), drawing, painting, photography, printmaking, or sculpture.

Admission into the Major

There is no admission process for the BA beyond general UA admission requirements.

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The Department of Art and Art History operates the Sella-Granata Art Gallery that primarily features changing exhibitions of student work. Crimson Clay is a departmental student organization providing opportunities to present ceramics projects in the community and across the state. Declared majors in art and art history are able to compete for numerous merit-based departmental scholarships, which are awarded annually to returning students. Members of the faculty actively assist students with internship and project placement in design agencies, exhibition venues, public community projects, area museums, and the Alabama Art History Association. The department also maintains cooperative agreements with local art galleries and spaces which allow student exhibition possibilities.

Students earning the bachelor of arts (BA) degree with a major in studio art must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.
Required Minor
This major requires the completion of a minor.

Additional Major Requirements
ARH 151 Intro to Visual Arts is not applicable to the major in studio art. Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Studio art BA programs provide education and training for those wishing to become professional visual artists and designers, or to work in arts-related fields. While the objectives of study are not primarily vocational, students will acquire knowledge and skills that may lead to employment in arts-related fields such as teaching, design, communication arts, art therapy, gallery work, or museum administration.

Types of Jobs Accepted
Jobs might include professional artist, designer, artist assistant, curator, gallery director, arts administrator, or graphic designer.

Jobs of Experienced Alumni
art director, university faculty, studio photographer, videographer, gallery director, museum curator, K-12 art educator, art conservator, gallery artist, arts administrator

The Nick Saban sculpture at Bryant-Denny Stadium was created by a student in UA’s Department of Art and Art History undergraduate program.

Learn more about opportunities in this field at the Career Center

Faculty
Chair
Jason Guynes
Professors
Jason Guynes
Craig Wedderspoon
Associate professors
William Dooley
Christopher Jordan
Sarah Marshall
Sky Shineman
Assistant professors
Jane Cassidy
Matthew Mitros
Giang Pham
Pete Schulte
Bryce Speed

Studio Art, BFA
The Bachelor of Fine Arts degree (BFA) in Studio Art is the professional degree in the arts and is designed for individuals who want to be professional visual artists or designers, enter a specific art field or to continue their education at the graduate level. It provides extensive training in a variety of studio areas and allows for specialization within the field. After completing a series of foundation courses, students are able to focus their coursework in one of seven media areas: ceramics, digital media (graphic design/digital arts/animation), drawing, painting, photography, printmaking, or sculpture.

Admission into the Major
Students may choose the BFA as a major during the regular UA admissions process. However, full admission to the BFA program is only granted after applying to be admitted to the program through the BFA review process. Students expecting to complete the requirements for the BFA in studio art in four years should begin program coursework as first-semester freshmen and apply to the BFA review no sooner than the completion of 18 semester hours of studio art courses, preferably during the second term of the sophomore year. If the student does not gain admission into the program after the first attempt, a second BFA review can be conducted before the completion of 30 studio hours. If the student is not accepted into the BFA program after the second BFA review, he or she is not eligible to apply for or to pursue the BFA degree, and it is recommended that they change to the BA in Studio Art. The student is responsible for keeping track of hours completed and applying at the appropriate time. Additional details of the BFA review process are available on the departmental website.

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
The Department of Art and Art History operates the Sella-Granata Art Gallery that primarily features changing exhibitions of student work. Crimson Clay is a departmental student organization providing opportunities to present ceramics projects in the community and across the state. Declared majors in art and art history are able to compete for numerous merit-based departmental scholarships, which are awarded annually to returning students. Members of the faculty actively assist students with internship and project placement in design agencies, exhibition venues, public community projects, area museums, and the Alabama Art History Association. The department also maintains cooperative agreements with local art galleries and spaces which allow student exhibition possibilities.

The bachelor of fine arts (BFA) degree with a major in studio art is a professional degree preparing individuals to become professional artists or designers, enter a specific art field, or continue graduate study in studio art. Students pursuing the BFA must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 128 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 130 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 131 3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 210 Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ART 302 Color Theory &amp; Application</td>
<td></td>
</tr>
<tr>
<td>ART 310 Life Drawing</td>
<td></td>
</tr>
</tbody>
</table>
ART 311  Figurative Modeling
Select 27 hours of ART primary concentration 200, 300 and 400 level courses including 6 hours of Art 499 Senior Thesis. Studio Area Concentrations are Ceramics, Digital Media, Drawing, Painting, Photography, Printmaking, or Sculpture. 1

Select twelve hours of ART secondary concentration including 3 hours of 200 level, 9 hours of 300 or 400 level. Studio Area Concentrations are Ceramics, Digital Media, Drawing, Painting, Photography, Printmaking, or Sculpture. 1

Select two of the following: 6
ARH 252  Survey of Art I
ARH 253  Survey Of Art II
ARH 254  Survey Of Art III

Select two of the following: 6
ARH 375  Nineteenth Century Art
ARH 376  American Architecture
ARH 378  Art of the African Diaspora
ARH 380  American Art: 1880-1945
ARH 388  African American Art
ARH 381  Art Since World War II
ARH 385  Early 20th Century Art
ARH 400  Photographic Discourse
ARH 481  Topics 20th Century Art

Electives
Select six hours of ARH electives 6
Select 3 hours of ART OR ARH electives 3

Credit Hours Subtotal: 78

Students must take 3 hours of Art 498 'Studio Capstone' two semesters before graduating.
Total Hours 81

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses
This major does not require ancillary courses.

Required Minor
The BFA does not require completion of a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers also are available for assistance with minor, College and University requirements.

Ceramics Concentration
Select 12 hours of the following:

ART 212  Ceramics
ART 312  Ceramics
ART 313  Ceramics
ART 412  Ceramics

Total Hours 12

Digital Media Concentration
Select 12 hours of the following:

ART 224  Introduction To Digital Art I
ART 314  Typography
ART 315  Digital Layout and Production
ART 324  Intermediate Digital Art
ART 328  Digital Phototography
ART 414  Graphic Design
ART 415  Graphic Design Practicum
ART 424  Advanced Digital Media
ART 428  Advanced Digital Phototography

Total Hours 12

Drawing Concentration
Select 12 hours of the following:

ART 310  Life Drawing
ART 344  Concepts in Drawing
ART 410  Drawing Seminar
ART 444  Advanced Concepts in Drawing

Total Hours 12

Painting Concentration
Select 12 hours of the following:

ART 216  Painting
ART 305  Aqueous Media
ART 316  Painting Composition
ART 317  Painting Concepts
ART 325  Monoprint Monotype
ART 416  Advanced Painting Seminar

Total Hours 12

Photography Concentration
Select 12 hours of the following:

ART 218  Photography
ART 318  Photography
ART 319  Photography
ART 328  Digital Phototography
ART 338  Photographic Studio Lighting
ART 418  Advanced Photography
ART 428  Advanced Digital Photography

Total Hours 12

Printmaking Concentration
Select 12 hours of the following:

ART 220  Printmaking
ART 320  Printmaking: Intaglio & Relief
ART 321  Printmaking: Lithography
ART 325  Monoprint Monotype
The Bachelor of Fine Arts degree (BFA) in Studio Art is the professional degree in the arts and is designed for individuals who want to be professional visual artists or designers, enter a specific art field, or to continue their education at the graduate level.

### Types of Jobs Accepted

Jobs include professional artist, designer, artist assistant, animator, art director, curator, gallery director, arts administrator or graphic designer.

### Jobs of Experienced Alumni

Professional artist, graphic designer, art director, university faculty, studio photographer, videographer, gallery director, museum curator, K-12 art educator, art conservator, gallery artist, arts administrator.

The Nick Saban sculpture at Bryant Denny Stadium was created by a student in UA’s Department of Art and Art History undergraduate program.

Learn more about opportunities in this field at the Career Center.

---

The Bachelor of Science in biology allows considerable flexibility and can be customized to meet the interests of individual students, while meeting the requirements of most post-graduate professional programs in medicine, dentistry, pharmacy, physical therapy, optometry and veterinary medicine. The Bachelor of Science in microbiology is a more focused program in the biology of microorganisms, but includes coursework that meets the requirements of most post-graduate professional programs in the health professions.

In addition, the College of Arts and Sciences offers interdisciplinary double major Bachelor of Science (B.S.) degrees in marine sciences (marine science/biology, marine science/chemistry and marine science/geology). These double-major curricula provide a focused exposure to include general education requirements, single disciplinary requirements and interdisciplinary courses in the field of marine science.

The Department of Biological Sciences also offers minors in biology, microbiology and marine science, and participates in interdisciplinary minors in natural resource management (p. 1038) and evolutionary studies (p. 949).

- **Majors**
  - Biology (BS) (p. 959)
  - Microbiology (BMB) (p. 965)
  - Marine Science/Biology (BS) (p. 962)
  - Marine Science/Chemistry (BS) (p. 963)
  - Marine Science/Geology (BS) (p. 964)
- **Minors**
  - Biology (p. 961)
  - Microbiology (p. 967)
  - Marine Science (p. 961)

---

## Faculty

**Chair**

Guynes, Jason

**Professors**

Jason Guynes

Craig Wedderspoon

**Assistant professors**

Jane Cassidy

Matthew Mitros

Giang Pham

Pete Schulte

Bryce Speed

**Associate professors**

William Dooley

Christopher Jordan

Sarah Marshall

Sky Shineman

---

## Department of Biological Sciences

The Department of Biological Sciences offers curricula leading to two degrees that are administered by the department, the degrees of Bachelor of Science in biology and Bachelor of Science in microbiology.
Professors
Benstead, Jon
Caldwell, Guy
Caldwell, Kimberly
Findlay, Robert
Harris, Phil
Huryn, Alexander
Lopez-Bautista, Juan
Mortazavi, Behzad
Olson, Julie
Powell, Martha J.
Secor, Stephen
Starr, Greg
Staudhammer, Christina

Associate professors
Cherry, Julia
Duffy, Carol
Earley, Ryan
Jenny, Matthew
Lozier, Jeff
Ramonell, Katrina
Reed, Laura
Yoder, John

Assistant professors
Atkinson, Carla
Becker, Gui
Ciesla, Lukasz
McKain, Michael
Chtarbanova, Stanislava
Fierst, Jana
Hatoum-Aslan, Asma
Howeth, Jennifer
Lam, Daryl
Pienaar, Jason

Biology, BS

Students pursuing a degree in biology typically have interests in science, the environment, and/or the health professions. High school preparation should include a solid background in mathematics, introductory biology, and/or chemistry.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The Department of Biological Sciences offers an abundance of special opportunities for students, including an honors program, a scholars program, and a number of special areas of concentration.

Honors Program

The Biological Sciences Honors Program is available to students majoring in either biology or microbiology after the completion of 16 hours of biological science courses with at least a 3.4 GPA overall and in BSC courses. Admission into the program is made through an application that is submitted to the undergraduate program coordinator. Requirements for the program include: four to eight hours of BSC 390 Honors Thesis Research, maintenance of a 3.4 GPA in BSC courses and overall, and submission and defense of an acceptable honors thesis. Additional details are available in the office of the Department of Biological Sciences.

Accelerated Masters Program

The Department of Biological Sciences also participates in the Accelerated Master’s Program, which allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master’s and bachelor’s degrees. Students usually apply for admission prior to the junior or senior year. For more information about the Accelerated Master’s Program, visit graduate.ua.edu or consult The University of Alabama graduate catalog.

Students earning the bachelor of science (BS) degree with a major in biology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Major Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>BSC 114 Principles Of Biology I</td>
</tr>
<tr>
<td>&amp; BSC 115 Laboratory Biology I</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BSC 118 Honors General Biology I</td>
</tr>
<tr>
<td>3</td>
<td>BSC 300 Cell Biology</td>
</tr>
<tr>
<td>3</td>
<td>BSC 315 Genetics</td>
</tr>
<tr>
<td>3</td>
<td>BSC 385 Ecology and Evolution</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 17

<table>
<thead>
<tr>
<th>Hours</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Select 19 hours of BSC or MS electives above 250</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 19

<table>
<thead>
<tr>
<th>Hours</th>
<th>Ancillary Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>CH 101 or General Chemistry</td>
</tr>
<tr>
<td></td>
<td>CH 117 Honors General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 102 or General Chemistry</td>
</tr>
<tr>
<td></td>
<td>CH 118 Honors General Chemistry</td>
</tr>
</tbody>
</table>
Additional Major Requirements

The department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. Four hours of the courses below may be applied to the major:

- BSC 391: Tutorial In Biol Science
- BSC 393: Biology Outreach
- BSC 396: Resident Study
- BSC 398: Undergraduate Research
- BSC 399: Presentation of UG Research
- BSC 403: Intro To Bsc Instruction
- BSC 404: Honors Bsc Instruction
- BSC 407: Honors Seminar In Bsc

**Credit Hours Subtotal:** 28

Electives

Other BSC courses numbered 250 and above, including two laboratory courses from the following list of laboratory courses (also see the Additional Major Requirements section):

- BSC 303: Field Zoology
- BSC 313: Gen Bacteriology Lab
- BSC 314: Dendrology
- BSC 320: Freshwater Studies
- BSC 360: Plant Biology
- BSC 373: Vertebrate Zoology
- BSC 376: Invertebrate Zoology
- BSC 390: Honors Thesis Research
- BSC 396: Resident Study
- BSC 398: Undergraduate Research
- BSC 400: Vertebrate Funct Morphol
- BSC 425: Human Physiology Lab
- BSC 428: Biology Of Fishes
- BSC 432: Pathogenic Microbiol Lab
- BSC 434: Plant Systematics
- BSC 439: Bch/Molecular Biology Lab
- BSC 442: Integrated Genomics
- BSC 460: Human Developmental Biology
- BSC 464: Biology Of Algae
- BSC 469: Histology Of Vertebrates
- BSC 472: Mycology
- BSC 475: General Entomology
- BSC 476: Aquatic Insects
- BSC 490: Stream Ecology
- MS 306: Marine Biology
- MS 408: Marine Invertebrate Zoology
- MS 419: Marine Ecology
- MS 452: Marine Vertebrate Zoology
- MS 453: Marine Botany

The two laboratory courses may not be fulfilled by BSC 390 Honors Thesis Research AND BSC 398 Undergraduate Research.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

The biology major does not require a minor.

**Prerequisites**

Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C-.

**Restrictions on course attempts**

No course may be attempted more than three times. Mid-semester withdrawal (any withdrawal that results in a final grade of W) is considered an attempt. Students who, in three attempts, fail to pass a required course or fail to make a C- or better in a Biology course that is a prerequisite for a required upper level course may no longer major in Biology.

A major in biology prepares students for a wide range of employment opportunities in the medical fields (medicine, dentistry, pharmacy), research, pharmaceutical sales, and education.
Types of Jobs Accepted
Recent graduates have worked in entry-level positions in research laboratories, medical equipment and pharmaceutical sales, and K-12 education. A large number of graduates enter professional school (e.g. medicine, dentistry, veterinary, optometry, pharmacy, physical therapy) or graduate school (master’s degree, Doctor of Philosophy [Ph.D.]).

Jobs of Experienced Alumni
physician, dentist, optometrist, veterinarian, pharmacist, physician’s assistant, physical therapist, laboratory technician, teacher, university professor, pharmaceutical representative, medical equipment sales representative

Learn more about opportunities in this field at the Career Center

Biology, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the "Change of Major/Minor Application" online under the "Student" tab of myBama.

Minor Courses
Select one of the following: 4

- BSC 114 Principles Of Biology I
  & BSC 115 Laboratory Biology I

  or

  - BSC 118 Honors General Biology I

Select one of the following: 4

- BSC 116 Principles Biology II
  & BSC 117 Biology II Laboratory

  or

  - BSC 120 Honors Gen Biology II

BSC electives 300 or 400 level 6
BSC electives 200 level or above 8
Total Hours 22

Additional Minor Requirements
No more than 4 hours earned in BSC enrichment courses may be applied to the minor. Enrichment courses are the following:

- BSC 391 Tutorial In Biol Science 1-2
- BSC 396 Resident Study 1-6
- BSC 398 Undergraduate Research 1-4
- BSC 399 Presentation of UG Research 2
- BSC 403 Intro To Bsc Instruction 2
- BSC 404 Honors Bsc Instruction 2
- BSC 407 Honors Seminar In Bsc 1

NOTE: BSC 409 Pre-Health Apprenticeship I and BSC 410 Pre-Health Apprenticeship II are not applicable to the minor in biology.

A maximum of 12 hours of 100-level biology courses BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Biology II Laboratory, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Prerequisites
Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C-.

Marine Science, Minor
Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Minor Courses
Select a sequence in BSC or GEO of the following: 8

Sequence 1:

- BSC 114 Principles Of Biology I
  & BSC 115 Laboratory Biology I

- BSC 114 Principles Of Biology I
  & BSC 118 Honors General Biology I

Sequence 2:

- BSC 116 Principles Biology II
  & BSC 117 Biology II Laboratory

- BSC 116 Principles Biology II
  & BSC 120 Honors Gen Biology II

Sequence 3:

- GEO 101 The Dynamic Earth
  & GEO 102 The Earth Through Time

Sequence 4:
Undergraduate Catalog

GEO 101  The Dynamic Earth
& GEO 105  and Sustainable Earth

Select 14 hours of the following:  14
MS 306  Marine Biology
MS 408  Marine Invertebrate Zoology
MS 448  Intro Oceanography
GEO 355  Invertebrate Paleontology
GEO 367  Sedimentology/Stratigraphy

Total Hours  22

Grade Point Average
A 2.0 grade point average in the minor is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are not permitted to count the same required minor course toward completion of a major or second minor. Students may count required ancillary courses toward the requirements of another major. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Marine Science/Biology Major, BS
Students pursuing a marine science degree typically demonstrate a strong interest in some aspect of the marine environment and in the sciences in general. High school preparation should include a solid background in mathematics and introductory biology and/or chemistry.

Department of Biological Sciences
1325 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu

Admission into the Major
Students are expected to formally declare both majors no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Students earning the bachelor of science (BS) degree in marine science/biology must complete all University, College and departmental degree requirements. These include the general education requirements, the following double major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

Major Courses
Select one of the following:  4
BSC 114  Principles Of Biology I
& BSC 115  and Laboratory Biology I
BSC 118  Honors General Biology I

Select one of the following:  4
BSC 116  Principles Biology II
& BSC 117  and Biology II Laboratory
BSC 120  Honors Gen Biology II
BSC 300  Cell Biology
3
BSC 315  Genetics
3
BSC 385  Ecology and Evolution
3
BSC electives above 250  15
CH 101 or  General Chemistry
4
CH 117  Honors General Chemistry
4
CH 102 or  General Chemistry
4
CH 118  Honors General Chemistry
4
GEO 101  The Dynamic Earth
4
GEO 102 or  The Earth Through Time
4
GEO 105  Sustainable Earth
4
MS 304  Marine Geology
4
MS 306  Marine Biology
4
MS 448  Intro Oceanography
4
MS elective 300 or 400 level (Consult the marine science coordinator for appropriate MS electives)  4

Select one of the following:  4
PH 101  General Physics I
PH 105  General Physics W/Calc I
PH 125  Honors Gen Ph W/Calculus

Select one of the following:  4
PH 102  General Physics II
PH 106  General Physics W/Calc II
PH 126  Honors Gen Ph W/Calculus II

Credit Hours Subtotal:  72

Ancillary Courses
Grades in ancillary courses are not computed in the major GPA.
The major in marine science/biology requires the successful completion of the following courses outside the major:
CH 231  Elem Organic Chemistry I
3
CH 232  Elem Organic Chem II
5
& CH 237  and Elem Organic Chem Lab
MATH 125 or  Calculus I
4
MATH 145  Honors Calculus I
ST 260 or  Statistical Data Analysis
3
BSC 380  Intro Stats Biology

Total Hours  87
Laboratory Courses

Other BSC courses numbered 250 and above including two laboratory courses from the following list of laboratory courses (also see "Additional Major Requirements"):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 310</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 313</td>
<td>Gen Bacteriology Lab</td>
<td>3</td>
</tr>
<tr>
<td>BSC 320</td>
<td>Freshwater Studies</td>
<td>4</td>
</tr>
<tr>
<td>BSC 360</td>
<td>Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 373</td>
<td>Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 376</td>
<td>Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 390</td>
<td>Honors Thesis Research</td>
<td>1-8</td>
</tr>
<tr>
<td>BSC 396</td>
<td>Resident Study</td>
<td>1-6</td>
</tr>
<tr>
<td>BSC 398</td>
<td>Undergraduate Research</td>
<td>1-4</td>
</tr>
<tr>
<td>BSC 400</td>
<td>Vertebrate Funct Morphol</td>
<td>4</td>
</tr>
<tr>
<td>BSC 425</td>
<td>Human Physiology Lab</td>
<td>2</td>
</tr>
<tr>
<td>BSC 428</td>
<td>Biology Of Fishes</td>
<td>4</td>
</tr>
<tr>
<td>BSC 432</td>
<td>Pathogenic Microbiol Lab</td>
<td>3</td>
</tr>
<tr>
<td>BSC 434</td>
<td>Plant Systematics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 436</td>
<td>Immunology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BSC 439</td>
<td>Bch/Molecular Biology Lab</td>
<td>3</td>
</tr>
<tr>
<td>BSC 442</td>
<td>Integrated Genomics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 460</td>
<td>Human Developmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 464</td>
<td>Biology Of Algae</td>
<td>4</td>
</tr>
<tr>
<td>BSC 469</td>
<td>Histology Of Vertebrates</td>
<td>4</td>
</tr>
<tr>
<td>BSC 472</td>
<td>Mycology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 475</td>
<td>General Entomology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 476</td>
<td>Aquatic Insects</td>
<td>4</td>
</tr>
<tr>
<td>BSC 490</td>
<td>Stream Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MS 306</td>
<td>Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td>MS 408</td>
<td>Marine Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>MS 419</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MS 452</td>
<td>Marine Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>MS 453</td>
<td>Marine Botany</td>
<td>4</td>
</tr>
</tbody>
</table>

Hours

Beyond specific restrictions listed for each course, a total of four hours from the group above, may be applied to the requirements of the biology major or minor. An additional four hours may be applied as electives to the requirement for 120 hours for the degree.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

A dual major in marine science and biology/chemistry/geology prepares students for a wide variety of employment opportunities in environmentally related fields, industries concerning utilization of marine resources, biotechnology, policy, and education.

Types of Jobs Accepted

Recent graduates have worked in entry-level positions in government agencies, ecotourism (e.g., SCUBA divemasters, whale or dolphin watching boats), and K-12 education. A large number of graduates enter professional school (e.g., medicine, dentistry, veterinary medicine, pharmacy) or graduate school (master's degree, Doctor of Philosophy [Ph.D.]).

Jobs of Experienced Alumni

Marine biologist, marine geologist, conservation specialist, laboratory technician, teacher, professor, aquaculture industry specialist, oceanographer, environmental consultant, marine animal veterinarian.

Learn more about opportunities in this field at the Career Center

Marine Science/Chemistry Major, BS

Students pursuing a marine science degree typically demonstrate a strong interest in some aspect of the marine environment and in the sciences in general. High school preparation should include a solid background in mathematics and introductory biology and/or chemistry.

Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu
Department of Chemistry
206 Shelby Hall
chemistry.ua.edu
chemistry@as.ua.edu

Admission into the Major

Students are expected to formally declare both majors no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.
Special Opportunities

During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Students earning the bachelor of science (BS) degree in marine science/chemistry must complete all university, college and departmental degree requirements. These include the general education requirements, the following double major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>BSC 114 Principles Of Biology I &amp; BSC 115 and Laboratory Biology I</td>
</tr>
<tr>
<td>4</td>
<td>BSC 116 Principles Biology II &amp; BSC 117 and Biology II Laboratory</td>
</tr>
<tr>
<td>4</td>
<td>BSC 120 Honors Gen Biology II</td>
</tr>
<tr>
<td>4</td>
<td>CH 101 or General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 102 or General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 118 Honors General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 223 Quantitative Analysis</td>
</tr>
<tr>
<td>3</td>
<td>CH 231 Elem Organic Chemistry I</td>
</tr>
<tr>
<td>5</td>
<td>CH 232 Elem Organic Chem II &amp; CH 237 and Elem Organic Chem Lab</td>
</tr>
<tr>
<td>2</td>
<td>CH 338 Elem Organic Chem Lab II</td>
</tr>
<tr>
<td>4</td>
<td>CH 340 Elem Physical Chem &amp; CH 343 and Elem Phy Chem Lab</td>
</tr>
<tr>
<td>3</td>
<td>CH 461 Biochemistry I</td>
</tr>
<tr>
<td>3</td>
<td>CH 462 Biochemistry II</td>
</tr>
<tr>
<td>3</td>
<td>CH 463 Biochem-Clin/Foren/Chem</td>
</tr>
<tr>
<td>4</td>
<td>GEO 101 The Dynamic Earth</td>
</tr>
<tr>
<td>4</td>
<td>GEO 102 or The Earth Through Time</td>
</tr>
<tr>
<td>4</td>
<td>GEO 105 Sustainable Earth</td>
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<td>4</td>
<td>PH 101 General Physics I</td>
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<td>PH 102 General Physics II</td>
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<td>PH 105 General Physics W/Calc I</td>
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<td>4</td>
<td>PH 125 Honors Gen Ph W/Calculus</td>
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<tr>
<td>4</td>
<td>MS 304 Marine Geology</td>
</tr>
<tr>
<td>4</td>
<td>MS 306 Marine Biology</td>
</tr>
<tr>
<td>4</td>
<td>MS 448 Intro Oceanography</td>
</tr>
<tr>
<td>4</td>
<td>MS elective 300 or 400 level (Consult the Marine Science Coordinator for appropriate MS electives)</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 75

Ancillary Courses

Grades in ancillary courses are not computed in the major GPA. The majors in marine science/chemistry require the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>MATH 125 or Calculus I</td>
</tr>
<tr>
<td>4</td>
<td>MATH 145 Honors Calculus I</td>
</tr>
<tr>
<td>3</td>
<td>ST 260 Statistical Data Analysis</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
</tr>
<tr>
<td>82</td>
<td></td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in each major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Required Minor

Marine science/chemistry does not require a minor.

Additional Major Requirements

Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. Students are responsible for ensuring that they have met all university, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and university requirements.

A dual major in marine science and biology, chemistry, or geology prepares students for a wide variety of employment opportunities in environmentally related fields, industries concerning utilization of marine resources, biotechnology, policy, and education.

Types of Jobs Accepted

Recent graduates have worked in entry-level positions in government agencies, ecotourism (e.g., SCUBA divemasters, whale or dolphin watching boats), and K-12 education. A large number of graduates enter professional school (e.g., medicine, dentistry, veterinary medicine, pharmacy) or graduate school (master's degree, Doctor of Philosophy [Ph.D.]).

Jobs of Experienced Alumni

Marine biologist, marine geologist, conservation specialist, laboratory technician, teacher, professor, aquaculture industry specialist, oceanographer, environmental consultant, marine animal veterinarian.

Learn more about opportunities in this field at the Career Center Marine Science/Geology Major, BS

Students pursuing a marine science degree typically demonstrate a strong interest in some aspect of the marine environment and in the sciences in general. High school preparation should include a solid background in mathematics and introductory biology and/or chemistry.

Department of Biological Sciences
1324 Science and Engineering Complex
bsc.ua.edu
marinescience@as.ua.edu

Department of Geological Sciences
2003 Bevill Building
geo.ua.edu
Admission into the Major

Students are expected to formally declare both majors no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Students earning the bachelor of science (BS) degree in marine science/geology must complete all university, college and departmental degree requirements. These include the general education requirements, the following double major requirements and other sufficient credits to total 128 applicable semester hours.

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 114</td>
<td>Principles Of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BSC 115</td>
<td>and Laboratory Biology I</td>
<td></td>
</tr>
<tr>
<td>BSC 118</td>
<td>Honors General Biology I</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 116</td>
<td>Principles Biology II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BSC 117</td>
<td>and Biology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>BSC 120</td>
<td>Honors General Biology II</td>
<td></td>
</tr>
<tr>
<td>CH 101 or</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 117</td>
<td>Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 102 or</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 118</td>
<td>Honors General Chemistry</td>
<td></td>
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<tr>
<td>GEO 101</td>
<td>The Dynamic Earth</td>
<td>4</td>
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<tr>
<td>GEO 102</td>
<td>The Earth Through Time</td>
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<td>GEO 210</td>
<td>Mineralogy</td>
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<td>GEO 314</td>
<td>Ign. &amp; Meta. Petrology</td>
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<td>GEO 365</td>
<td>Structural Geology</td>
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</tr>
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<td>GEO 367</td>
<td>Sedimentology/Stratigraphy</td>
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<td>GEO 495</td>
<td>Field Geology</td>
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Select two of the following:

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<td>GEO 355</td>
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<tr>
<td>GEO 369</td>
<td>Introduction Geophysics</td>
<td></td>
</tr>
<tr>
<td>GEO 470</td>
<td>General Geochemistry</td>
<td></td>
</tr>
<tr>
<td>GEO electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS 304</td>
<td>Marine Geology</td>
<td>4</td>
</tr>
<tr>
<td>MS 306</td>
<td>Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td>MS 448</td>
<td>Intro Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MS elective 300 or 400 level</td>
<td>Consult the Marine Science coordinator for appropriate MS electives</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PH 101</td>
<td>General Physics I</td>
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</tr>
<tr>
<td>PH 105</td>
<td>General Physics W/Calc I</td>
<td></td>
</tr>
<tr>
<td>PH 125</td>
<td>Honors Gen Ph W/Calculus</td>
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Select one of the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PH 102</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 106</td>
<td>General Physics W/Calc II</td>
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</tbody>
</table>

Ancillary Courses

Grades in ancillary courses are not computed in the major GPA. The major in marine science/geology requires the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or</td>
<td>Calculus I</td>
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<tr>
<td>MATH 145</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 126 or</td>
<td>Calculus II</td>
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<tr>
<td>MATH 146</td>
<td>Honors Calculus II</td>
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<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
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</table>

Total Hours 92

Grade Point Average

A 2.0 grade point average in each major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Required Minor

Marine science/chemistry does not require a minor.

Additional Major Requirements

Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

A dual major in marine science and biology, chemistry, or geology prepares students for a wide variety of employment opportunities in environmentally related fields, industries concerning utilization of marine resources, biotechnology, policy, and education.

Types of Jobs Accepted

Recent graduates have worked in entry-level positions in government agencies, ecotourism (e.g., SCUBA divers, whale or dolphin watching boats), and K-12 education. A large number of graduates enter professional school (e.g., medicine, dentistry, veterinary medicine, pharmacy) or graduate school (master’s degree, Doctor of Philosophy [Ph.D.]).

Jobs of Experienced Alumni

Marine biologist, marine geologist, conservation specialist, laboratory technician, teacher, professor, aquaculture industry specialist, oceanographer, environmental consultant, marine animal veterinarian

Learn more about opportunities in this field at the Career Center

Microbiology, BMB

Students entering the microbiology program typically have interests in science, the environment, or the health professions. High school
preparation should include a solid background in mathematics and introductory classes in biology and/or chemistry.

**Admission into the Major**

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students may declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama. The department recommends that students declare a microbiology major as soon as possible.

**Special Opportunities**

The Biological Sciences Honors Program is available to students majoring in either biology or microbiology after the completion of 16 hours of biological science courses with at least a 3.4 GPA overall and in BSC courses. Admission into the program is made through an application that is submitted to the undergraduate program coordinator. Requirements for the program include: four to eight hours of BSC 390 Honors Thesis Research, maintenance of a 3.4 GPA in BSC courses and overall, and submission and defense of an acceptable honors thesis. Additional details are available in the office of the Department of Biological Sciences.

**Accelerated Master's Program**

The Department of Biological Sciences also participates in the Accelerated Master's Program, which allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to the junior or senior year. For more information about the Accelerated Master's Program visit graduate.ua.edu or consult The University of Alabama graduate catalog.

Students earning the bachelor of science in microbiology (BMB) degree must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

**Major Courses**

Select one of the following: 

- BSC 114 Principles Of Biology I
- & BSC 115 and Laboratory Biology I
- BSC 118 Honors General Biology I

Select one of the following: 

- BSC 116 Principles Biology II
- & BSC 117 and Biology II Laboratory
- BSC 120 Honors Gen Biology II

**Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 300</td>
<td>3</td>
</tr>
<tr>
<td>BSC 310</td>
<td>3</td>
</tr>
<tr>
<td>BSC 312</td>
<td>2</td>
</tr>
<tr>
<td>BSC 311</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 19

**Electives**

Select 18 hours of BSC electives 300 or 400 level

Credit Hours Subtotal: 18

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in microbiology requires the successful completion of the following courses outside the major:

- CH 101 or CH 117 General Chemistry or Honors General Chemistry
- CH 102 or CH 118 General Chemistry or Honors General Chemistry
- CH 231 Elem Organic Chemistry I
- CH 232 Elem Organic Chem II
- & CH 237 and Elem Organic Chem Lab
- MATH 125 or MATH 145 Calculus I or Honors Calculus I

Select one of the following:

- PH 101 General Physics I
- PH 105 General Physics W/Calc I
- PH 125 Honors Gen Ph W/Calculus

Select one of the following:

- PH 102 General Physics II
- PH 106 General Physics W/Calc II
- PH 126 Honors Gen Ph W/Calculus II

Credit Hours Subtotal: 28

**Additional Major Requirements**

The department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. These courses include:

- BSC 390 Honors Thesis Research
- BSC 391 Tutorial In Biol Science
- BSC 398 Undergraduate Research
- BSC 399 Presentation of UG Research
- BSC 403 Intro To Bsc Instruction
- BSC 404 Honors Bsc Instruction
- BSC 407 Honors Seminar In Bsc

Total Hours: 65

Beyond specific restrictions listed for each course, a total of four hours from this group may be applied to the requirements of the biology major or minor. An additional four hours may be applied as electives to the requirement for 120 hours for the degree. BSC 409 Pre-Health Apprenticeship I and BSC 410 Pre-Health Apprenticeship II is not applicable to the major in biology. A maximum of 12 hours of 100-level biology courses (BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Biology II Laboratory, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements.

**Electives**

Other BSC courses must be selected from the following:

- BSC 313 Gen Bacteriology Lab
- BSC 390 Honors Thesis Research
- BSC 391 Tutorial In Biol Science
- BSC 396 Resident Study
- BSC 398 Undergraduate Research

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 313</td>
<td>3</td>
</tr>
<tr>
<td>BSC 390</td>
<td>1-8</td>
</tr>
<tr>
<td>BSC 391</td>
<td>1-2</td>
</tr>
<tr>
<td>BSC 396</td>
<td>1-6</td>
</tr>
<tr>
<td>BSC 398</td>
<td>1-4</td>
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</table>
The University of Alabama 2018-2019 967

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 399</td>
<td>Presentation of UG Research</td>
<td>2</td>
</tr>
<tr>
<td>BSC 403</td>
<td>Intro To Bsc Instruction</td>
<td>2</td>
</tr>
<tr>
<td>BSC 404</td>
<td>Honors Bsc Instruction</td>
<td>2</td>
</tr>
<tr>
<td>BSC 407</td>
<td>Honors Seminar In Bsc</td>
<td>1</td>
</tr>
<tr>
<td>BSC 431</td>
<td>Pathogenic Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 435</td>
<td>Immunology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 439</td>
<td>Bch/Molecular Biology Lab</td>
<td>3</td>
</tr>
<tr>
<td>BSC 442</td>
<td>Integrated Genomics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 444</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 450</td>
<td>Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BSC 451</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 456</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 464</td>
<td>Biology Of Algae</td>
<td>4</td>
</tr>
<tr>
<td>BSC 472</td>
<td>Mycology</td>
<td>4</td>
</tr>
<tr>
<td>BSC 497</td>
<td>Special Topics</td>
<td>1-4</td>
</tr>
</tbody>
</table>

These hours must include two laboratories to be selected from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 313</td>
<td>Gen Bacteriology Lab</td>
<td>3</td>
</tr>
<tr>
<td>BSC 390</td>
<td>Honors Thesis Research</td>
<td>1-8</td>
</tr>
<tr>
<td>BSC 398</td>
<td>Undergraduate Research</td>
<td>1-4</td>
</tr>
<tr>
<td>BSC 439</td>
<td>Bch/Molecular Biology Lab</td>
<td>3</td>
</tr>
<tr>
<td>BSC 442</td>
<td>Integrated Genomics</td>
<td>4</td>
</tr>
<tr>
<td>BSC 464</td>
<td>Biology Of Algae</td>
<td>4</td>
</tr>
<tr>
<td>BSC 472</td>
<td>Mycology</td>
<td>4</td>
</tr>
</tbody>
</table>

The two laboratory courses may not be fulfilled by BSC 390 Honors Thesis Research AND BSC 398 Undergraduate Research.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

The microbiology major does not require a minor.

**Prerequisites**

Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C.

**Restrictions on course attempts**

No course may be attempted more than three times. Mid-semester withdrawal (any withdrawal that results in a final grade of W) is considered an attempt. Students who, in three attempts, fail to pass a required course or fail to make a C- or better in a Microbiology course that is a prerequisite for a required upper level course may no longer major in microbiology.

A major in microbiology prepares students for a wide range of employment opportunities in clinical and public health fields, biotechnology, environmentally related fields, and industries concerning food, water quality, pharmaceuticals, and medical equipment and supplies.

**Types of Jobs Accepted**

Recent graduates have worked in entry-level industrial jobs; clinical-medical laboratories; and local, state, or federal government agencies. Others have worked in non-laboratory jobs selling pharmaceuticals and laboratory supplies and equipment used in research facilities, hospitals, and public health areas. Some graduates go into a professional school (e.g., medicine, dentistry, veterinary medicine, pharmacy, optometry, and public health) and others to graduate school for the master’s degree, Doctor of Philosophy (PhD), or Doctor of Science (ScD).

**Jobs of Experienced Alumni**

Physician, pharmacist, optometrist, veterinarian, laboratory technician, teacher, professor, public health officer, pharmaceutical representative

Learn more about opportunities in this field at the Career Center

**Microbiology, Minor**

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor courses</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BSC 300</td>
<td>Cell Biology</td>
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<tr>
<td>BSC 310</td>
<td>Microbiology</td>
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<tr>
<td>BSC 311</td>
<td>Microbiology II</td>
</tr>
<tr>
<td>BSC 312</td>
<td>Microbiology Lab</td>
</tr>
<tr>
<td>BSC 313</td>
<td>Gen Bacteriology Lab</td>
</tr>
<tr>
<td>BSC 450</td>
<td>Fundamentals of Biochemistry</td>
</tr>
<tr>
<td>BSC 451</td>
<td>Molecular Biology</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 20

**Ancillary Courses**

This minor does not specify ancillary courses, but prerequisites for required courses include the following (or permission of the instructor):

Select one of the following: 4

- BSC 114 Principles Of Biology I & BSC 115 and Laboratory Biology I
- or BSC 118 Honors General Biology I

Select one of the following: 4

- BSC 116 Principles Biology II & BSC 117 and Biology II Laboratory
- or BSC 120 Honors Gen Biology II

CH 232 Elem Organic Chem II

Credit Hours Subtotal: 11

Total Hours 31
Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
Departmental limits on credit for enrichment courses apply to the requirements for the microbiology major and minor. Students are not permitted to count the same required minor courses toward completion of a major or second minor. Students may count required ancillary courses toward other requirements. A maximum of 12 hours of 100-level biology courses (BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Biology II Laboratory, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Blount Scholars Program
• Minors
  • Blount Undergraduate Initiative Minor

BU100 Convocation
Hours 1

Experiences to extend and complement the Blount Undergraduate Initiative foundation courses. May be repeated once for credit.

BU101 Foundation: Origins
HU

Hours 3

A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

Humanities

VIEW ALL COURSES

Blount Undergraduate Initiative Minor

Admission into the Minor
Only students admitted to the Blount Scholars Program can pursue the Blount liberal arts minor. Students should complete the Declaration of Minor form no later than the fourth semester of full-time enrollment.

The Blount liberal arts minor requires the successful completion of the following 20 semester hours. A maximum of three hours of Blount coursework may be applied toward another major or minor, reducing the number of hours required for the minor to 17.

<table>
<thead>
<tr>
<th>Minor Courses</th>
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<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
<td>BU101 Foundation: Origins</td>
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<tr>
<td>BU102 Foundation: Possibilities</td>
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<tr>
<td>BU301 Thematic Seminar</td>
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<tr>
<td>BU301 Thematic Seminar</td>
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</tr>
<tr>
<td>BU401 Blount Capstone Worldviews</td>
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</table>

Total Hours 20

Grade Point Average
A 2.0 grade point average in the minor is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses
The Blount Liberal Arts minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Department of Chemistry and Biochemistry
The department of chemistry and biochemistry offers a major in chemistry culminating in a bachelor of science in chemistry (BCh) degree or a bachelor of science (BS) degree. The BCh degree is American Chemical Society-certified (ACS-certified) and consists of two tracks: chemistry and biochemistry. The BS degree with a major in chemistry is not ACS-certified and is designed primarily for students pursuing health professions. The department also offers a minor in chemistry.

• Majors
  • Chemistry (BCh) (p. 969)
  • Chemistry (BS) (p. 971)

• Minor
  • Chemistry (p. 972)
CH101 General Chemistry

Hours 4

Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 101 and CH 100 or for both CH 101 and CH 117.

A survey of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall, spring, and summer semesters.

Prerequisite(s): MATH 113 or (MATH 115 or MATH 125 or MATH 145 or MATH 126 or MATH 146 with concurrent enrollment allowed)

Natural Science

CH102 General Chemistry

Hours 4

Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 102 and CH 105 or both CH 102 and CH 118.

Continuation of CH 100 or CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds. Usually offered in the fall, spring, and summer semesters.

Prerequisite(s): CH 100, CH 101, or CH 117 MATH 112 or 115

Prerequisite(s) with concurrency: MATH 113

Natural Science

Faculty

Chair
Shaughnessy, Kevin H.

Professors
Blackstock, Silas C.
Bowman, Michael K.
Cassady, Carolyn J.
Metzger, Robert M.
Nikles, David E.
Pan, Shanlin
Shaughnessy, Kevin H.
Timkovich, Russell
Vincent, John B.

MINT Professor
Gupta, Arunava

Robert Ramsay Professors
Dixon, David A.

Saxon Professor
Arduengo, Anthony

Associate Professors
Bakker, Martin G.
Bonizzoni, Marco
Jennings, Michael P.
Frantom, Patrick

Papish, Elizabeth T.
Snowden, Timothy S.
Street, Shane C.
Szulczewski, Gregory J.
Woski, Stephen A.

Assistant Professors
Alred, Jared
Dunkle, Jack
Rupar, Paul A.

Thompson, Matthew

Chemistry, BCH

Students from our department tend to have strong credentials and typically go on to medical school or graduate studies in chemistry.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The Department of Chemistry and Biochemistry Honors Program is available to students pursuing either of the ACS-certified bachelor of science in chemistry tracks. To participate in the chemistry honors program, students must complete the course requirements for either track in the ACS-certified bachelor of science in chemistry degree:

- Maintain a 3.30 GPA in chemistry courses, with no more than one C, and a 3.0 cumulative GPA
- Participate in CH 491 Honors Research Sem, CH 492 Honors Research Sem, CH 493 Honors Research Sem, CH 494 Honors Research Sem, honors research seminars and research courses
- Submit an acceptable senior thesis based on research conducted under the supervision of a chemistry department faculty member
- Submit scores on the Graduate Record Examination or other appropriate examinations prior to graduation

Students are invited to apply for admission to the Chemistry Honors Program on the basis of performance in introductory chemistry courses. Contact the chemistry department director of undergraduate studies for more details.

The department sponsors several student organizations, including the Student Affiliates of the American Chemical Society, the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, and Gamma Sigma Epsilon (the national chemistry honorary). Gamma Sigma Epsilon aims to recognize academic performance by chemistry majors, promote an interest in chemistry among students and the community and foster a feeling of fellowship among its members. To be eligible for membership, students must have completed or be near completion of their second year of chemistry courses, as well as have a minimum 3.3 cumulative GPA in all chemistry courses. Applications for membership are generally accepted in the spring semester.
Pre-health Professional Preparation

Students completing any of the chemistry degree options or the minor in chemistry will have fulfilled all chemistry, math, and physics requirements for admission to pre-health professional programs (medical, dental, optometry, pharmacy, veterinary, etc., schools). With the addition of appropriate biological sciences electives, students earning the BCh degrees will have met all math and science requirements for pre-health professional programs.

Undergraduate Research

The Department of Chemistry and Biochemistry offers two undergraduate research courses designed to provide students with a hands-on experience at the forefront of chemistry. These courses include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 396 &amp; CH 398</td>
<td>2-6</td>
<td>Undergrad Research</td>
</tr>
<tr>
<td>CH 497 &amp; CH 498</td>
<td>2-6</td>
<td>Intro To Research</td>
</tr>
<tr>
<td>Total Hours</td>
<td>8-24</td>
<td></td>
</tr>
</tbody>
</table>

In each course, students work directly with a faculty member on a research project. Chemistry majors and minors and students with an interest in chemistry are encouraged to become involved in undergraduate research through these courses. Students should receive approval from the faculty mentor before registering for a research course. Students may find descriptions of faculty research interests on the Department of Chemistry website. Students may contact potential research mentors directly or seek advice on possible mentors from their academic advisors.

Students earning the bachelor of science in chemistry (BCh) degree must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements chosen from one of two tracks, and other sufficient credits to total a minimum of 120 applicable semester hours.

Degree Tracks

The ACS-certified degree tracks in chemistry and biochemistry provide thorough preparation for students interested in pursuing careers in chemistry, biochemistry or related fields (e.g., biomedicine, forensics, toxicology and environmental science); pursuing graduate studies in chemistry or related fields; or enrolling in a health professions school (MD, DDS, PharmD or DVM) upon graduation.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 18 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

The BCh degree (both chemistry and biochemistry tracks) does not require a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Major Courses

The major in chemistry BCh degree requires the successful completion of one of the following tracks for 41 or 43 semester hours:

Chemistry Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101 or CH 117</td>
<td>4</td>
</tr>
<tr>
<td>CH 102 or CH 118</td>
<td>4</td>
</tr>
<tr>
<td>CH 223</td>
<td>4</td>
</tr>
<tr>
<td>CH 231</td>
<td>3</td>
</tr>
<tr>
<td>CH 232 &amp; CH 237</td>
<td>5</td>
</tr>
<tr>
<td>CH 338</td>
<td>2</td>
</tr>
<tr>
<td>CH 341</td>
<td>3</td>
</tr>
<tr>
<td>CH 342</td>
<td>3</td>
</tr>
<tr>
<td>CH 348</td>
<td>2</td>
</tr>
<tr>
<td>CH 413</td>
<td>4</td>
</tr>
<tr>
<td>CH 424</td>
<td>4</td>
</tr>
<tr>
<td>CH 461</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 41

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in chemistry culminating in the BCh degree requires the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or MATH 145</td>
<td>4</td>
</tr>
<tr>
<td>MATH 126 or MATH 146</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227 or MATH 247</td>
<td>4</td>
</tr>
<tr>
<td>PH 105 or PH 125</td>
<td>4</td>
</tr>
<tr>
<td>PH 106 or PH 126</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours 61

Biochemistry Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101 or CH 117</td>
<td>4</td>
</tr>
<tr>
<td>CH 102 or CH 118</td>
<td>4</td>
</tr>
<tr>
<td>CH 223</td>
<td>4</td>
</tr>
<tr>
<td>Course</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>CH 231</td>
<td>Elem Organic Chemistry I</td>
</tr>
<tr>
<td>CH 338</td>
<td>Elem Organic Chem Lab II</td>
</tr>
<tr>
<td>CH 341</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CH 342</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CH 348</td>
<td>Physical Chemistry Lab</td>
</tr>
<tr>
<td>CH 413</td>
<td>Inorganic Chemistry</td>
</tr>
<tr>
<td>CH 461</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>CH 462</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>CH 463</td>
<td>Biochem-Clin/Foren/Chem</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 43

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in chemistry culminating in the BCh degree requires the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 126 or</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 146</td>
<td>Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 227 or</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 247</td>
<td>Honors Calculus III</td>
<td></td>
</tr>
<tr>
<td>PH 105 or</td>
<td>General Physics W/Calc I</td>
<td>4</td>
</tr>
<tr>
<td>PH 125</td>
<td>Honors Gen Ph W/Calc I</td>
<td></td>
</tr>
<tr>
<td>PH 106 or</td>
<td>General Physics W/Calc II</td>
<td>4</td>
</tr>
<tr>
<td>PH 126</td>
<td>Honors Gen Ph W/Calc II</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 63

**Special Opportunities**

Students pursuing this track may participate in Student Affiliates of the American Chemical Society, the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, and Gamma Sigma Epsilon, as well as the pre-medical organizations.

Students earning the bachelor of science (BS) degree with a major in chemistry must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

**Chemistry, BS**

Students from our department tend to have strong credentials and typically go on to medical school or graduate studies in chemistry.

The chemistry BS degree is suitable for students who are primarily interested in attending a health professional school upon graduation. The major in chemistry (BS) may provide less flexibility in pursuing career options in chemistry and other scientific fields.

**Admission into the Major**

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.
Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor
The major in chemistry (BS) degree requires a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

industrial research and development, industrial sales, marketing and technical services, faculty positions in high school and higher education, government, research and development

Types of Jobs Accepted
industrial research and development, academic careers (graduate and postgraduate work), professional school (medical, dental, pharmacy)

Jobs of Experienced Alumni
Academic careers, Physicians, Dentists, Pharmacists, Industrial researchers, Entrepreneurs.

Learn more about opportunities in this field at the Career Center

Chemistry, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101 or CH 117</td>
<td>4</td>
</tr>
<tr>
<td>CH 102 or CH 118</td>
<td>4</td>
</tr>
<tr>
<td>CH 223</td>
<td>4</td>
</tr>
<tr>
<td>CH 231 &amp; CH 237</td>
<td>3</td>
</tr>
<tr>
<td>CH 340 &amp; CH 343</td>
<td>4</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 24

Ancillary Courses

<table>
<thead>
<tr>
<th>Ancillary Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD225</td>
<td>3</td>
</tr>
</tbody>
</table>

Grades in ancillary courses are not computed into the minor GPA.
The minor in chemistry requires the successful completion of the following courses outside the minor:

<table>
<thead>
<tr>
<th>Select one of the following:</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 101 General Physics I</td>
<td></td>
</tr>
<tr>
<td>PH 105 General Physics W/Calc I</td>
<td></td>
</tr>
<tr>
<td>PH 125 Honors Gen Ph W/Calculus</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 4

| PH 102 General Physics II   |
| PH 106 General Physics W/Calc II |
| PH 126 Honors Gen Ph W/Calculus II |

Credit Hours Subtotal: 8

Total Hours 32

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency
A minimum of six hours in the minor must be earned on this campus, including four hours in 300- and 400-level chemistry courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of Communicative Disorders
The Department of Communicative Disorders offers a bachelor of arts (BA) degree and a minor in Communicative Disorders (speech-language pathology). Students majoring in Communicative Disorders are expected to matriculate to graduate study in speech-language pathology or audiology.

- Major
  - Communicative Disorders (BA) (p. 973)
- Minor
  - Communicative Disorders (p. 974)

CD225 Intro Comm Disorders
Hours 3

Study of the types of speech, language, and hearing disorders; an introduction to the principles of rehabilitation of communicative disorders; and consideration of employment settings.

CD226 Lang & Speech Develop
Hours 3

Theory and practice of normal speech and language processes and sequences.
Communicative Disorders, BA

Communicative Disorders students typically enjoy working with people and their families and are highly motivated to explore communication problems in depth. These individuals display excellent communication and interpersonal skills. They are highly motivated to complete the training necessary to become licensed professionals. They are creative problem solvers, sensitive to the needs of others, deal with multiple demands, pay close attention to detail, and work effectively in a team environment.

Admission into the Major
Students must have sophomore standing to enroll in any CD course. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major online under the Student tab of myBama.

Grade Point Average
A 2.0 GPA in the major is required for completion of the degree. Please see the Office of University Registrar explanation of grade point average calculations. Minimum GPA standards are required for clinical practicum. See the Admission to Clinical Practicum section below.

Prerequisites
Sophomore standing is required to enroll in any CD course. Completion of all 200-level CD courses (with the exception of CD 277 Preprofessional Lab Experience) is required for enrollment in 300- and 400-level CD courses. CD 377 Clinical Practicum I Speech and CD 445 Audiology Lab Experience are by application only, and permission of the instructor is required prior to enrollment in any CD 350 Independent Study course.

Special Opportunities
The Department of Communicative Disorders provides students an opportunity to participate in research with a departmental faculty member. Students are also encouraged to become active in the local and national chapters of the National Student Speech-Language-Hearing Association. Junior- and senior-level scholarship awards are available for students majoring in Communicative Disorders. For eligible students, the department also offers clinical practicums for hands-on experience in speech-language pathology and audiology.

Students earning the bachelor of arts degree (BA) with a major in communicative disorders must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 225</td>
<td>Intro Comm Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CD 226</td>
<td>Lang &amp; Speech Develop</td>
<td>3</td>
</tr>
<tr>
<td>CD 244</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>CD 275</td>
<td>Anat Physio Sech Hear Mechanism</td>
<td>3</td>
</tr>
<tr>
<td>CD 277</td>
<td>Preprofess Lab Experience</td>
<td>1</td>
</tr>
<tr>
<td>CD 308</td>
<td>Speech Disorders I</td>
<td>3</td>
</tr>
<tr>
<td>CD 309</td>
<td>Speech Disorders II</td>
<td>3</td>
</tr>
<tr>
<td>CD 351</td>
<td>Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>CD 411</td>
<td>Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>CD 443</td>
<td>Basic Audiology</td>
<td>3</td>
</tr>
<tr>
<td>CD 441</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>CD 462</td>
<td>Neuro for CD</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Credit Hours Subtotal:</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 102</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 104</td>
<td>Introductory Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 105</td>
<td>Introductory Org Chem</td>
<td></td>
</tr>
<tr>
<td>CH 117</td>
<td>Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 118</td>
<td>Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>PH 101</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PH 102</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PH 105</td>
<td>General Physics W/Calc I</td>
<td></td>
</tr>
<tr>
<td>PH 106</td>
<td>General Physics W/Calc II</td>
<td></td>
</tr>
<tr>
<td>PH 115</td>
<td>Descriptive Physics for Non-Science Major</td>
<td></td>
</tr>
<tr>
<td>PH 125</td>
<td>Honors Gen Ph W/Calculus</td>
<td></td>
</tr>
<tr>
<td>PH 126</td>
<td>Honors Gen Ph W/Calculus II</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Select one of the following statistics courses:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>BER 345</td>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>PY 211</td>
<td>Elem Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
<td></td>
</tr>
<tr>
<td>CJ 381</td>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Credit Hours Subtotal:</strong></td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>
Electives
Students may choose to take elective CD courses:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3</td>
<td>CD 350</td>
<td>Independent Study</td>
</tr>
<tr>
<td>3</td>
<td>CD 377</td>
<td>Clin Practicum I Speech</td>
</tr>
<tr>
<td>1-3</td>
<td>CD 445</td>
<td>Audiology Lab Experience</td>
</tr>
</tbody>
</table>

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor
This major requires the completion of a minor.

Additional Major Requirements
Students are advised that the communicative disorders major is considered to be pre-professional. A master's degree or the equivalent is necessary for membership in and certification by the national professional organizations and for licensure by the state of Alabama and most other states. The Department of Communicative Disorders offers a program leading to the master of science degree in speech-language pathology (see UA graduate catalog).

Students are responsible for ensuring that they have met all requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Students majoring in communicative disorders who wish to participate in clinical practicum or audiology practicum must apply for admission into CD 377 Clin Practicum I Speech or CD 445 Audiology Lab Experience.

Admission into Clinical Practicum
Admission requirements include the following:

- minimum cumulative GPA of 3.3
- completion and minimum 3.0 GPA in all of the following:
  
<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CD 225</td>
<td>Intro Comm Disorders</td>
</tr>
<tr>
<td>3</td>
<td>CD 226</td>
<td>Lang &amp; Speech Develop</td>
</tr>
<tr>
<td>3</td>
<td>CD 244</td>
<td>Phonetics</td>
</tr>
<tr>
<td>3</td>
<td>CD 275</td>
<td>Anat Physio Sech Hear Mechansm</td>
</tr>
<tr>
<td>1</td>
<td>CD 277</td>
<td>Preprofess Lab Experienc</td>
</tr>
<tr>
<td>3</td>
<td>CD 308</td>
<td>Speech Disorders I</td>
</tr>
</tbody>
</table>

- Satisfactory performance on a departmental speech and language proficiency test and hearing screening as determined by the Evaluation Committee (NOTE: Failure of the speech and language test requires enrollment in speech-language therapy and retesting to determine if admission to the clinical practicum is possible. Appropriate follow-up steps recommended by the Evaluation Committee must be taken if a student fails the hearing screening.)
- The electronic application is on our department website cd.ua.edu

Types of Jobs Accepted
The undergraduate program is not the terminal degree for either the speech-language pathology or audiology professions. Our recent graduate students have accepted positions in local and national schools, hospitals, and skilled-nursing facilities.

Learn more about opportunities in this field at the Career Center

Faculty
Chair
Dr. Angela Barber

Clinic Director
Mrs. Mary Ray-Allen

Coordinator, Audiological Services
Dr. JoAnne Payne

Graduate Research Professor
Dr. Charles Formby

Associate professors
Dr. Angela Barber
Dr. Anthony Buhr
Dr. Marcia Hay-McCutcheon

Assistant professors
Dr. Spyridoula Cheimariou
Dr. Memorie Gosa
Dr. Paul Reed

Clinical professors
Mrs. Mary Bryan
Mrs. Kandis Chatman
Mrs. Candace Cook
Mrs. Barbara Kucharski
Mrs. Sara Shirley
Mrs. DeLaine Stricklin

Communicative Disorders, Minor

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CD 225</td>
<td>Intro Comm Disorders</td>
</tr>
<tr>
<td>3</td>
<td>CD 226</td>
<td>Lang &amp; Speech Develop</td>
</tr>
<tr>
<td>3</td>
<td>CD 275</td>
<td>Anat Physio Sech Hear Mechansm</td>
</tr>
<tr>
<td>3</td>
<td>CD 308</td>
<td>Speech Disorders I</td>
</tr>
<tr>
<td>3</td>
<td>CD 309</td>
<td>Speech Disorders II</td>
</tr>
<tr>
<td>3</td>
<td>CD 351</td>
<td>Hearing Science</td>
</tr>
</tbody>
</table>

| Total Hours | 18 |

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations. Minor GPA standards are required for continuance in the minor.
Prerequisites
Sophomore standing is required to enroll in any CD course. Completion of all 200-level CD courses (with the exception of CD 277 Preprofession Lab Experience) are required for enrollment in 300- and 400-level CD courses.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all requirements. However, each student must meet with an advisor in the major department for academic planning and to be approved for registration each semester. College advisors are also available for additional assistance with all College and University degree requirements.

Department of Criminology & Criminal Justice
The Department of Criminal Justice offers a Bachelor of Arts (BA) degree in criminal justice and minors in criminal justice, cyber criminology, and sociology.

- Major
  - Criminology & Criminal Justice (BA) (p. 975)
- Minors
  - Criminal Justice (p. 976)
  - Cyber Criminology (p. 976)
  - Sociology (p. 977)

CJ100 Intro Criminal Justice

Hours 3
An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components. CJ 100 is a prerequisite for all 300- and 400-level criminal justice courses.

Social and Behavioral Sciences

SOC101 Intro To Sociology

Hours 3
Introduction to the scientific study of human social behavior.

Social and Behavioral Sciences

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 100 Intro Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 280 Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CJ 300 Survey Criminal Theories</td>
<td>3</td>
</tr>
<tr>
<td>CJ 381 Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 12

Electives

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ electives</td>
<td>18</td>
</tr>
<tr>
<td>400 level electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 24

Total Hours 36
Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses
The Criminology & Criminal Justice major does not require ancillary courses; however the formal declaration of the criminal justice major is required prior to enrolling in any 300-400 level courses.

Required Minor
This major requires the completion of a minor.

Additional Major Requirements
A grade of C- or higher is required in all criminal justice courses. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with all College and University degree requirements.

Types of Jobs Accepted
Criminal justice is a field that offers many employment opportunities, stable employment, and often exciting jobs. Recent graduates work for Homeland Security, the Secret Service, Probation and Parole, and many other state and federal agencies. Other have successfully completed law school and now work as attorneys. Other graduates work as drug rehabilitation specialists and as offender/victim advocates. Other recent graduates have been awarded paid assistantships to pursue advanced degrees.

Jobs of Experienced Alumni
We have alumni who are police chiefs and attorneys, and who work in supervisory roles in both state and federal corrections and law enforcement agencies. Many of our undergraduates go on to attend graduate programs and some have earned doctorates and now work as professors.

Learn more about opportunities in this field at the Career Center

Criminal Justice, Minor

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
The Department of Criminal Justice has two very active student organizations. Alpha Phi Sigma is the National Criminal Justice Honor Society and is devoted to promoting academic excellence, leadership, and self-enrichment through academic standards and community outreach. The Criminal Justice Student Association welcomes all students with interest in the field of criminal justice.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 100 Intro Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ electives 300 or 400 level</td>
<td>6</td>
</tr>
<tr>
<td>CJ electives</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Hours 18

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses; however the formal declaration of the Criminal Justice minor is required prior to enrolling in any 300-400 level courses.

Additional Minor Requirements
A grade of C- or higher is required in all criminal justice courses. A maximum of 6 hours of CJ 395 Internship and 3 hours of CJ 499 Independent Study In CJ will count as CJ electives.

Cyber Criminology, Minor

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
Cyber Criminology minors are encouraged to participate in the Cyber Crime Club, a very active student organization that aims to educate students on cybercrime and cyberforensic techniques, as well as provide information on career and graduate school options within the field of cybercrime.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 201 Introduction to Cyber Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CC 301 Cyber Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>CC 401 Law Enforcement in the Digital Age</td>
<td>3</td>
</tr>
<tr>
<td>CS 202 Intro to the Internet</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 12

*CC 401 is offered in fall semesters. CC 301 is offered in spring semesters.

Electives
Select six hours of the following:

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 334 Introduction to Fraud Risk Management</td>
<td>6</td>
</tr>
</tbody>
</table>
CC 290  Special Topics in Cyber Crime
CC 395  Internship
CC 402  Digital Forensic Investigation
CC 490  Special Topics in Cyber Criminology
CJ 300  Survey Criminal Theories
CS 340  Legal & Ethical Issues in Comp
PY 368  Intro To Personality

Total Hours 18

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Prerequisites
CC 201 is a prerequisite for all CC upper-level courses.

Sociology, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101 Intro To Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 302 Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC electives 300 or 400 level</td>
<td>6</td>
</tr>
<tr>
<td>SOC electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110</td>
<td>3</td>
</tr>
<tr>
<td>EC 111</td>
<td>3</td>
</tr>
<tr>
<td>EC 308</td>
<td>3</td>
</tr>
<tr>
<td>EC 309</td>
<td>3</td>
</tr>
<tr>
<td>ST 260</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121</td>
<td>3</td>
</tr>
<tr>
<td>MATH 125</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>36</td>
</tr>
</tbody>
</table>

1 12 hours must be at 300 level or higher. Students in the quantitative track must meet the requirements for the Mathematical Statistics minor and take EC 413 Econ Forecasting & Analysis and EC 471 Econometrics.

Quantitative Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 111 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 308 Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 309 Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 413 Econ Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
EC 471 Econometrics 3
12 hours of Economic Electives 1 12
Total Hours 30

1 12 hours must be at 300 level or higher. Students in the quantitative track must meet the requirements for the Mathematical Statistics minor and take EC 413 Econ Forecasting & Analysis and EC 471 Econometrics.

The opportunities for students who complete a bachelor's degree in economics range from positions in banking and financial services to real estate, insurance, enterprise risk management, consulting, and the public sector. The economics major also provides excellent preparation for admission to law school, MBA programs, schools of public policy, doctoral programs in economics, finance, and other areas of business.

### Types of Jobs Accepted
consulting firms, litigation consultant, stock broker, financial advisor, data miner, Teach for America, economist for public utilities commission

### Jobs of Experienced Alumni
attorney, professor of economics, credit risk manager, data miner, various management positions, public policy analyst

Learn more about opportunities in this field at the Career Center

### Faculty
Chair
Laura Razzolini, Department Head

**Professors**
- James P. Cover
- Cary A. Deck
- Daniel J. Henderson
- Junsoo Lee
- Paul Pecorino
- Michael Price
- Robert R. Reed III

**Associate professors**
- Gregory Givens
- Paan Jindapon
- Byung-Cheol Kim
- Matt Van Essen

**Assistant professors**
- Peter Brummund
- Erik Johnson
- Xiaochun Liu
- Amanda Ross

**Instructors**
- Hoda El-Karaksy
- Krishna Regmi
- Will Wash
- Christopher A. Whaley

Tao-Chen Yeh
Kent Zirlott

**Professor emeritus**
Walter Enders

### Department of English
The Department of English offers a Bachelor of Arts (BA) degree in English and minors in English and creative writing. It also sponsors an honors program in English.

- **Major**
  - English (BA) (p. 979)
- **Minors**
  - World Literature (p. 982)
  - Creative Writing (p. 979)
  - English (p. 981)
  - Interdisciplinary Linguistics (p. 981)

### Prerequisites and Conditions
Unless otherwise stated, upper-level English courses have the following prerequisites and conditions:

- 300-level courses require 12 hours of EN (including six hours at the 200 level)
- 400-level courses require 18 hours of EN (including six hours at the 200 level) and six hours at the 300 level
- EN 301 Fiction Tour and EN 303 Poetry Tour and EN 305 Creative Nonfiction Tour and EN 307 Special Topics in Applied Creative Writing require completion of EN 200 The Living Writer: Introduction to Creative Writing
- EN 408 Advanced Creative Writing requires completion of EN 200 The Living Writer: Introduction to Creative Writing and six hours in EN 301 Fiction Tour, EN 303 Poetry Tour, EN 305 Creative Nonfiction Tour, (EN 307 Special Topics in Applied Creative Writing or EN 313 Writing Across Media or EN 317 Writing Center Practicum).
- Students may not enroll in EN 200 The Living Writer: Introduction to Creative Writing and any other creative writing course (EN 301 Fiction Tour, EN 303 Poetry Tour, EN 305 Creative Nonfiction Tour, EN 307 Special Topics in Applied Creative Writing, EN 408 Advanced Creative Writing) concurrently.
- Any combination of EN 301 Fiction Tour, EN 303 Poetry Tour, EN 305 Creative Nonfiction Tour, and EN 307 Special Topics in Applied Creative Writing may be enrolled in concurrently.
- Students may enroll in multiple sections of EN 408 Advanced Creative Writing concurrently, but must request a waiver from the director of Undergraduate Creative Writing to do so.

[object Object]
EN101 English Composition

Hours 3

Introduction to college-level expository writing, critical reading, basic citation, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 101 does not apply as credit to the English major or minor.

Prerequisite(s): EN 101

Freshmen Composition

EN102 English Composition

Hours 3

Intermediate college-level writing covering the principles of argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as A, B, C, or NC (No Credit). A grade of C- or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 102 does not apply as credit to the English major or minor. Prerequisite(s): EN 101.

Prerequisite(s): EN 101

Freshmen Composition

View All Courses

Faculty

Chair
Joel Brouwer

Director of Undergraduate Studies
David Deutsch

Director of Undergraduate Creative Writing
John Estes

Creative Writing, Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 200</td>
<td>Intro Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>EN 301</td>
<td>Fiction Tour</td>
<td></td>
</tr>
<tr>
<td>EN 303</td>
<td>Poetry Tour</td>
<td></td>
</tr>
<tr>
<td>EN 305</td>
<td>Creative Nonfiction Tour</td>
<td></td>
</tr>
<tr>
<td>EN 307 or EN 313 or EN 317</td>
<td>Special Topics in Applied CW or Writing Across Media Writing Center Practicum</td>
<td></td>
</tr>
<tr>
<td>(Only 3 credit hours will count between EN 307, EN 313, or EN 317)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 408</td>
<td>Advanced Creative Writing</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Hours 21

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be approved for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements. Additional questions should be addressed to the Director of Undergraduate Creative Writing.

English, BA

English majors are expected to develop critical thinking skills that manifest themselves abundantly in advanced reading and writing. They are expected to learn how to identify original ideas and then to develop them into a piece of effective writing. Such interests and skills should have wide applicability in the workaday world outside of the University.

Admission into the Major

Students may declare a major in English online under the Student tab of myBama. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students).

Special Opportunities

Special opportunities available in the Department of English include the English Honors Program and the Sigma Tau Delta honor society. Contact the department for more information.

Honors in English

The English Department offers an Honors Program for students who wish to wish to pursue more advanced studies in the major. Any English major with a superior aptitude for and a special interest in English may apply for admission to the Honors Program. The program includes honors sections of 200-level literature surveys, a 300-level Honors Seminar in English, and an Honors Thesis, which counts as a 400-level course. The 200-level honors classes allow students to pursue British or American Literature in depth, at an advanced level, and in a seminar-style setting. The EN 399 Honors Seminar in English gives students the opportunity to take an advanced, research-centered course that cuts across conventional divisions of literary period and literary form. The EN 499 Honors Thesis affords each student the opportunity to work individually with a faculty mentor who will guide him or her in reading, researching, and writing a 30-40 page thesis. To be eligible for graduation with honors in English, participants must complete any two of the following courses: EN 215 Honors English Literature I, EN 216 Honors English Literature II, EN 219 Honors American Literature, EN 220 Honors American Literature II; as well as EN 399 Honors Seminar in English and EN 499 Honors Thesis with a minimum grade of “B” in each. (Some flexibility at the 200- and 300-level is possible with permission of the coordinators). Students must have at least a 3.5 GPA in the English major and 3.3 GPA overall to complete the program successfully. See the English Department website,
or contact the coordinators of the English Honors Program for additional information.

**Sigma Tau Delta**

Sigma Tau Delta, an international English honor society, aims to promote a mastery of written expression, to encourage worthwhile reading, and to foster a spirit of fellowship among its members. Students pursuing a major in English or English education, or pursuing a minor in English or creative writing and who have at least a 3.33 GPA for 12 hours of English and at least 3.0 cumulative GPA are eligible to apply. The society, along with the department, annually makes an award to the English major with the highest GPA.

Students earning the bachelor of arts (BA) degree with a major in English must complete all University, College and departmental degree requirements. These include the general education requirements, the major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

**Major Courses**

Select three of the following 200 level courses: 1

<table>
<thead>
<tr>
<th>EN 200</th>
<th>Intro Creative Writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 201</td>
<td>How English Works</td>
</tr>
<tr>
<td>EN 205 or EN 215</td>
<td>English Literature I or Honors English Literature I</td>
</tr>
<tr>
<td>EN 206 or EN 216</td>
<td>English Literature II or Honors English Literature II</td>
</tr>
<tr>
<td>EN 207</td>
<td>World Literature I</td>
</tr>
<tr>
<td>EN 208</td>
<td>World Literature II</td>
</tr>
<tr>
<td>EN 209 or EN 219</td>
<td>American Literature or Honors American Literature</td>
</tr>
<tr>
<td>EN 210 or EN 220</td>
<td>American Literature II or Honors American Literature II</td>
</tr>
<tr>
<td>EN 249</td>
<td>African American Literature</td>
</tr>
<tr>
<td>EN 250</td>
<td>African American Literature II</td>
</tr>
</tbody>
</table>

Select one of the following pre-1700 courses: 3

<table>
<thead>
<tr>
<th>EN 330</th>
<th>Chaucer And Medieval Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 331</td>
<td>Chaucer</td>
</tr>
<tr>
<td>EN 332</td>
<td>Sixteenth Century Literature</td>
</tr>
<tr>
<td>EN 333</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>EN 334</td>
<td>Seventeenth Century Literature</td>
</tr>
<tr>
<td>EN 335</td>
<td>Milton</td>
</tr>
</tbody>
</table>

Select one of the following 1700-1900 courses: 3

<table>
<thead>
<tr>
<th>EN 340</th>
<th>American Literature To 1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 341</td>
<td>American Poetry To 1900</td>
</tr>
<tr>
<td>EN 342</td>
<td>American Fiction To 1900</td>
</tr>
<tr>
<td>EN 343</td>
<td>British Fiction To 1900</td>
</tr>
<tr>
<td>EN 344</td>
<td>Major Authors 1660-1900</td>
</tr>
<tr>
<td>EN 347</td>
<td>English Lit During Enlightenmt</td>
</tr>
<tr>
<td>EN 348</td>
<td>Romantic Literature</td>
</tr>
<tr>
<td>EN 349</td>
<td>Victorian Literature</td>
</tr>
</tbody>
</table>

Select one of the following Rhetoric and Composition, Linguistics, Methodology, or Writing courses: 3

| EN 300 | Intro To English Studies      |

**Electives 2**

Select four EN elective courses at the 400 level 12

Select two EN elective courses at the 300 or 400 level 6

<table>
<thead>
<tr>
<th>EN 301</th>
<th>Fiction Tour</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 303</td>
<td>Poetry Tour</td>
</tr>
<tr>
<td>EN 305</td>
<td>Creative Nonfiction Tour</td>
</tr>
<tr>
<td>EN 307</td>
<td>Special Topics in Applied CW</td>
</tr>
<tr>
<td>EN 309</td>
<td>Advanced Expository Writing</td>
</tr>
<tr>
<td>EN 310</td>
<td>Special Topics Writing</td>
</tr>
<tr>
<td>EN 313</td>
<td>Writing Across Media</td>
</tr>
<tr>
<td>EN 317</td>
<td>Writing Center Practicum</td>
</tr>
<tr>
<td>EN 319</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>EN 320</td>
<td>Intro To Linguistics</td>
</tr>
<tr>
<td>EN 321</td>
<td>Linguistic Approach English Gramr</td>
</tr>
</tbody>
</table>

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

This major requires the completion of a minor.

**Additional Major Requirements**

EN 430 English Internship is not applicable to the major in English. Either EN 317 Writing Center Practicum or EN 456 WC: Theory and Research is applicable to the major in English, but not both. Students are responsible for ensuring that they have met all University and College major and
minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with College and University minor requirements.

The career opportunities for those majoring in English are numerous. There are various opportunities for those who would like to go for graduate work and countless opportunities in the field of teaching, from elementary up through higher education and even for teaching English abroad. An English major is also a customary route for those seeking admission to law school. It is becoming an increasingly common route for admission to business or medical schools. It has always been a favorite for those employers who value advanced reading, writing, and editing skills.

**Types of Jobs Accepted**

Advanced reading and writing skills have led to employment in a variety of jobs. English majors often pursue graduate work in English (Penn, UCLA, Virginia, Georgetown, Cornell, North Carolina (Chapel Hill), Florida, Texas (Austin), and Toronto). Others have pursued law degrees at institutions such as Yale, Harvard, Duke, Michigan, Virginia, and Alabama. Others have gone on to receive medical degrees from such respected institutions as UAB, University of Virginia and USA. Alumni include Rhodes scholars, Mellon fellows, Fulbright scholars, published writers of considerable distinction and achievement, and even a couple of authors of best sellers.

**Jobs of Experienced Alumni**

Alumni include, as might be expected, countless teachers, instructors, and professors, as well as numerous writers of distinction. Alumni also include, as might not be expected, doctors, lawyers, business executives, and people of accomplishment in all walks of life.

Learn more about opportunities in this field at the Career Center

**Faculty**

**Chair**

Joel Brouwer

**English, Minor**

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Minor Courses**

Select three (3) from the following 200 level EN courses: 9

| EN 200 | Intro Creative Writing |
| EN 201 | How English Works |
| EN 205 or EN 215 | English Literature I or Honors English Literature I |
| EN 206 or EN 216 | English Literature II or Honors English Literature II |
| EN 207 | World Literature I |
| EN 208 | World Literature II |
| EN 209 or EN 219 | American Literature or Honors American Literature |
| EN 210 or EN 219 | American Literature II |

**Electives**

Select four EN electives at the 300-400 level 12

**Total Hours**

21

1 At least two (2) of the three (3) required 200 level EN courses must be from EN 205 English Literature I (or EN 215 Honors English Literature I), EN 206 English Literature II (or EN 216 Honors English Literature II), EN 207 World Literature I, EN 208 World Literature II, EN 209 American Literature (or EN 219 Honors American Literature), EN 210 American Literature II (or EN 220 Honors American Literature II), EN 249 African American Literature I, EN 250 African American Literature II.

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.

**Upper-level Residency**

A minimum of six hours in 300-level courses in the minor must be earned on this campus.

**Ancillary Courses**

This minor does not require ancillary courses.

**Additional Minor Requirements**

EN 430 English Internship is not applicable to the minor in English. Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor each semester in the major department for academic planning and to be approved for registration. College advisors are also available for additional assistance with minor, College, and University requirements.

**Interdisciplinary Linguistics, Minor**

**Admission to the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Minor Courses**

Select three hours of the Following Foundations Courses: 3

| EN 201 | How English Works |
| FR 361 | Intro Romance Linguistic |
| IT 361 | Intro Romance Linguistic |
| SP 361 | Intro Romance Linguistic |

Credit Hours Subtotal: 3

**Linguistic and Language Study Courses**

Select 12 hours of the following: 12

| ANT 210 | Language and Culture |
| ANT 401 | Linguistic Anthropology |
Undergraduate Catalog

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 244</td>
<td>Phonetics</td>
<td></td>
</tr>
<tr>
<td>CD 275</td>
<td>Anat Physio Sech Hear Mechansm</td>
<td></td>
</tr>
<tr>
<td>EN 320</td>
<td>Intro To Linguistics</td>
<td></td>
</tr>
<tr>
<td>EN 423</td>
<td>History of the Eng Lang</td>
<td></td>
</tr>
<tr>
<td>EN 424</td>
<td>Structure Of English</td>
<td></td>
</tr>
<tr>
<td>EN 425</td>
<td>Variation in American English</td>
<td></td>
</tr>
<tr>
<td>EN 466</td>
<td>Advanced Studies In Linguistic</td>
<td></td>
</tr>
<tr>
<td>FR 241</td>
<td>Pronunciation &amp; Phonetics</td>
<td></td>
</tr>
<tr>
<td>FR 461</td>
<td>French Linguistics</td>
<td></td>
</tr>
<tr>
<td>FR 470</td>
<td>Undergrad Sem In French ((when topic is linguistic in nature))</td>
<td></td>
</tr>
<tr>
<td>FR 480</td>
<td>Special Topics ((when topic is linguistic in nature))</td>
<td></td>
</tr>
<tr>
<td>SP 390</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>SP 483</td>
<td>Intro to Spanish Linguistics</td>
<td></td>
</tr>
<tr>
<td>SP 484</td>
<td>Phonetics And Pronunciation</td>
<td></td>
</tr>
<tr>
<td>SP 485</td>
<td>Open Topics in Linguistics</td>
<td></td>
</tr>
<tr>
<td>SP 492</td>
<td>Spanish in the US</td>
<td></td>
</tr>
</tbody>
</table>

Up to six hours of any language currently taught in traditional classroom format in the Department of Modern Languages and Classics or six credits of language training in one of the list of languages offered at the Critical Languages Center

Credit Hours Subtotal: 12

Research Methodology and Applications Courses

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 450</td>
<td>Probs In Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CD 225</td>
<td>Intro Comm Disorders</td>
<td></td>
</tr>
<tr>
<td>CD 226</td>
<td>Lang &amp; Speech Develop</td>
<td></td>
</tr>
<tr>
<td>EN 321</td>
<td>Linguis Approach English Gramr</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Total Hours: 18

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.

Ancillary Requirements

The Interdisciplinary Linguistics Minor requires the successful completion of the following ancillary requirements:

1. Both 101 and 102 of any foreign language;
2. 103 of any foreign language;
3. 104 of any foreign language;
4. Any 3-hour course at the 200-level or higher in any foreign language. These courses are typically taught in the Department of Modern Languages and Classics. The Critical Languages Center, housed in the Department of Modern Languages and Classics, offers instruction in non-traditional foreign languages that may be of interest to some linguistics minors.

World Literature Minor

Admission into the Minor

The minor in world literature is open only to students who have completed two years of college-level coursework in a foreign language. Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 207</td>
<td>World Literature I</td>
<td>3</td>
</tr>
<tr>
<td>EN 208</td>
<td>World Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Literature Elective Courses

Select 15 hours

Credit Hours Subtotal: 15

Total Hours: 21

1. Only (1) one 200 level Literature course may be used to satisfy the Literature elective course requirements outlined, above. At least (6) six hours of the Literature elective courses must be completed at the 300-400 level.

Literature Elective Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 215</td>
<td>ANTH - Movies and Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ANT 216</td>
<td>Ethnographic Cinema</td>
<td>3</td>
</tr>
<tr>
<td>CHI 350</td>
<td>Traditional Chinese Lit Trans</td>
<td>3</td>
</tr>
<tr>
<td>CL 222</td>
<td>Greek Roman Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CL 234</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>CL 350</td>
<td>Roman Religion</td>
<td>3</td>
</tr>
<tr>
<td>CL 365</td>
<td>Greece &amp; Rome in Film</td>
<td>3</td>
</tr>
<tr>
<td>GN 250</td>
<td>Germanic Mythology</td>
<td>3</td>
</tr>
<tr>
<td>GN 254</td>
<td>Survey of German Cinema</td>
<td>3</td>
</tr>
<tr>
<td>GN 260</td>
<td>Holocaust In Film &amp; Lit</td>
<td>3</td>
</tr>
<tr>
<td>GN 264</td>
<td>German Literature Translatn I</td>
<td>3</td>
</tr>
<tr>
<td>GN 265</td>
<td>German Lit In Translatn II</td>
<td>3</td>
</tr>
<tr>
<td>GN 371</td>
<td>Gn Cult Civil Thru 1832</td>
<td>3</td>
</tr>
<tr>
<td>GN 372</td>
<td>Germn Cult Civ 1832-Present</td>
<td>3</td>
</tr>
<tr>
<td>JA 356</td>
<td>Traditional Japanese Lit Trans</td>
<td>3</td>
</tr>
<tr>
<td>JA 357</td>
<td>Japanese Literature &amp; Film</td>
<td>3</td>
</tr>
<tr>
<td>JA 371</td>
<td>Japanese Culture I</td>
<td>3</td>
</tr>
<tr>
<td>JA 372</td>
<td>Japanese Culture II</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
<td>Apocalypse In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>REL 311</td>
<td>English Bible As Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 341</td>
<td>Theories of Myth</td>
<td>3</td>
</tr>
<tr>
<td>REL 430</td>
<td>Religion and Literature</td>
<td>3</td>
</tr>
<tr>
<td>RUS 223</td>
<td>Rus Lit in Trans I</td>
<td>3</td>
</tr>
<tr>
<td>RUS 224</td>
<td>Rus Lit In Transl II</td>
<td>3</td>
</tr>
<tr>
<td>RUS 252</td>
<td>Russian Folklore</td>
<td>3</td>
</tr>
<tr>
<td>RUS 325</td>
<td>Dostoevsky</td>
<td>3</td>
</tr>
<tr>
<td>RUS 326</td>
<td>Tolstoy</td>
<td>3</td>
</tr>
</tbody>
</table>

Other courses approved by director

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.
Upper-level Residency
A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses
The minor in comparative & world literature requires 202 or higher in any Foreign Language (FL).

Grades in ancillary courses are not computed into the minor GPA. NOTE: Computer science does not fulfill this requirement.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Environmental Science
  * Major
    * Environmental Science (BS) (p. 983)

Faculty
Associate professor
Justin Hart

Environmental Science, BS
Students pursuing a BS in Environmental Science typically have interests in the environment, enjoy outdoor recreation, and appreciate science. The Environmental Science curriculum ensures all of our students have a solid foundation in physical and life sciences and environmental data collection and analysis. Our students will all have hands-on experiences using science to address environmental issues. The curriculum also allows some flexibility so students can tailor the upper-level electives to their own specific interests.

Environmental Science majors have the option to earn a concentration in Natural Resources and Ecosystem Conservation. This concentration follows a more narrowly focused curriculum for students that have specific interests in natural resources management.

Admission into the Major
Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students may declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

BS Environmental Science

<table>
<thead>
<tr>
<th>Core Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>4</td>
</tr>
<tr>
<td>BSC 114 Principles Of Biology I &amp; BSC 115 Laboratory Biology I</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>BSC 118 Honors General Biology I</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 4

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 116 &amp; BSC 117 Principles Biology II and Biology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>BSC 120 Honors Gen Biology II</td>
<td></td>
</tr>
<tr>
<td>BSC 385 Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>CH 101 or General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 117 Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 102 or General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 118 Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>GEO 101 or The Dynamic Earth</td>
<td></td>
</tr>
<tr>
<td>TY 102 Earth Surface Processes</td>
<td></td>
</tr>
<tr>
<td>GEO 105 Sustainable Earth</td>
<td></td>
</tr>
<tr>
<td>TY 101 Atmospheric Proc &amp; Patterns</td>
<td></td>
</tr>
<tr>
<td>GEO 204 Map &amp; Air Photo Interpretation</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>TY 339 Natural Resource Envirnm Plang</td>
</tr>
<tr>
<td>TY 441 Land Use Regulations</td>
</tr>
<tr>
<td>TY 452 Environ Decision Making</td>
</tr>
<tr>
<td>TY 453 Environment &amp; Society</td>
</tr>
<tr>
<td>TY 452 Remote Sensing I</td>
</tr>
<tr>
<td>TY 430 Intro Geographic Info Systems</td>
</tr>
<tr>
<td>PY 211 or Elem Statistical Methods</td>
</tr>
<tr>
<td>ST 260 Statistical Data Analysis</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 45

Upper Division Electives
Select 16 hours (see below) 16

Credit Hours Subtotal: 16

Ancillary Courses
Grades in ancillary courses are not computed into the major GPA. The major in environmental science requires the successful completion of the following course outside the major:

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or Calculus I</td>
</tr>
<tr>
<td>MATH 145 Honors Calculus I</td>
</tr>
</tbody>
</table>

Total Hours 65

Upper Division Electives
Students earning the BS in Environmental Science must complete an additional 16 hours of upper division electives from the following courses:

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 363 Geomorphology</td>
</tr>
<tr>
<td>GY 404 Physical Geography Seast Us</td>
</tr>
<tr>
<td>GY 405 Dir Res Physical Geog 1-3</td>
</tr>
<tr>
<td>GY 409 Forest History and Restoration</td>
</tr>
<tr>
<td>GY 412 Hydroclimatology</td>
</tr>
<tr>
<td>GY 413 Applied Climatology</td>
</tr>
<tr>
<td>GY 470 Special Topics</td>
</tr>
<tr>
<td>GY 472 Soil Science</td>
</tr>
<tr>
<td>GY 483 Environment Science Internship 3-9</td>
</tr>
<tr>
<td>GY 486 Watershed Dynamics</td>
</tr>
<tr>
<td>GY 489 Forest Ecology Veg Analy</td>
</tr>
<tr>
<td>GY 492 Eastern Forest Communities</td>
</tr>
<tr>
<td>GY 494 Forest Measurement &amp; Methods</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 363 Geomorphology</td>
</tr>
<tr>
<td>GY 404 Physical Geography Seast Us</td>
</tr>
<tr>
<td>GY 405 Dir Res Physical Geog 1-3</td>
</tr>
<tr>
<td>GY 409 Forest History and Restoration</td>
</tr>
<tr>
<td>GY 412 Hydroclimatology</td>
</tr>
<tr>
<td>GY 413 Applied Climatology</td>
</tr>
<tr>
<td>GY 470 Special Topics</td>
</tr>
<tr>
<td>GY 472 Soil Science</td>
</tr>
<tr>
<td>GY 483 Environment Science Internship 3-9</td>
</tr>
<tr>
<td>GY 486 Watershed Dynamics</td>
</tr>
<tr>
<td>GY 489 Forest Ecology Veg Analy</td>
</tr>
<tr>
<td>GY 492 Eastern Forest Communities</td>
</tr>
<tr>
<td>GY 494 Forest Measurement &amp; Methods</td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

The environmental science major does not require a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College, and University requirements.

Natural Resources and Ecosystem Conservation Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 385</td>
<td>Watershed Management Plan Development</td>
<td>3</td>
</tr>
<tr>
<td>GY 411</td>
<td>Land Use Regulations</td>
<td>3</td>
</tr>
</tbody>
</table>

Thematic Management and Planning Course (Choose 2) 6-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 414</td>
<td>Climate Change and Health</td>
</tr>
<tr>
<td>GY 428</td>
<td>Conservation Biology</td>
</tr>
<tr>
<td>GY 434</td>
<td>Plant Systematics</td>
</tr>
<tr>
<td>GY 492</td>
<td>Eastern Forest Communities</td>
</tr>
<tr>
<td>GY 496</td>
<td>Forest Ecosystems</td>
</tr>
</tbody>
</table>

Measurements Course (Choose 1) 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 385</td>
<td>Watershed Management Plan Development</td>
</tr>
<tr>
<td>BSC 434</td>
<td>Plant Systematics</td>
</tr>
<tr>
<td>GY 409</td>
<td>Forest History and Restoration</td>
</tr>
<tr>
<td>GY 494</td>
<td>Forest Measurement &amp; Methods</td>
</tr>
</tbody>
</table>

Ecological Processes (Choose 2) 6-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 314</td>
<td>Dendrology</td>
</tr>
<tr>
<td>BSC 320</td>
<td>Freshwater Studies</td>
</tr>
<tr>
<td>BSC 325</td>
<td>Tropical Plant Diversity</td>
</tr>
<tr>
<td>BSC 360</td>
<td>Plant Biology</td>
</tr>
<tr>
<td>BSC 376</td>
<td>Vertebrate Zoology</td>
</tr>
<tr>
<td>GY 412</td>
<td>Limnology</td>
</tr>
<tr>
<td>BSC 415</td>
<td>Wetland Ecology</td>
</tr>
<tr>
<td>BSC 428</td>
<td>Biology Of Fishes</td>
</tr>
<tr>
<td>BSC 434</td>
<td>Plant Systematics</td>
</tr>
<tr>
<td>BSC 448</td>
<td>Animal Behavior</td>
</tr>
<tr>
<td>BSC 456</td>
<td>Microbial Ecology</td>
</tr>
<tr>
<td>BSC 471</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>BSC 472</td>
<td>Mycology</td>
</tr>
<tr>
<td>BSC 475</td>
<td>General Entomology</td>
</tr>
<tr>
<td>BSC 476</td>
<td>Aquatic Insects</td>
</tr>
<tr>
<td>BSC 480</td>
<td>Plant Ecology</td>
</tr>
<tr>
<td>BSC 482</td>
<td>Conservation Biology</td>
</tr>
<tr>
<td>BSC 483</td>
<td>Evolution</td>
</tr>
<tr>
<td>BSC 484</td>
<td>Aquatic Biology Seminar</td>
</tr>
<tr>
<td>BSC 490</td>
<td>Stream Ecology</td>
</tr>
<tr>
<td>BSC 497</td>
<td>Special Topics</td>
</tr>
<tr>
<td>GY 385</td>
<td>Watershed Management Plan Development</td>
</tr>
<tr>
<td>GY 441</td>
<td>Land Use Regulations</td>
</tr>
<tr>
<td>GY 492</td>
<td>Eastern Forest Communities</td>
</tr>
<tr>
<td>GY 496</td>
<td>Forest Ecosystems</td>
</tr>
<tr>
<td>GY 494</td>
<td>Forest Measurement &amp; Methods</td>
</tr>
</tbody>
</table>

Earth Surface Processes (Choose 1) 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 306</td>
<td>Hydrogeology</td>
</tr>
<tr>
<td>GEO 363</td>
<td>Geomorphology</td>
</tr>
</tbody>
</table>
A BS in Environmental Science prepares students for a wide range of employment opportunities in the fields of natural resources management, environmental monitoring and assessment, and environmental education. Students are also prepared to continue their education in graduate schools in a variety of academic fields.

**Types of Jobs Accepted**


**Jobs of Experienced Alumni**

Experienced alumni hold positions such as hydrologist, land manager, forester, planner, consultant, professor, land steward, conservation programs manager, arborist, ecologist, environmental analyst, ranger, silviculturist, senior analyst, environmental coordinator, recycling and green wastes coordinator, realtor, estate manager, guide, outdoor educator, and environmental inspector.

Learn more about opportunities in this field at the Career Center.

**Faculty**

Associate professor  
Justin Hart

The Department of Gender and Race Studies offers the Bachelor of Arts (BA) degree in African American studies as well as minors in African American studies and in Women's Studies. The major and minor in African American studies are interdisciplinary and address the history, politics, and culture of the African American community, as an issue of democracy and in a transnational perspective. The courses in the major and minor encourage students to use a variety of approaches to study the complex issues that arise in connection to the lives of African Americans. The Women's Studies minor is also interdisciplinary and is designed to provide knowledge of the roles and status of women in historical and contemporary society, to conduct and encourage research and writing by and about women, and to offer skills and information for increasing employment opportunities for women.

- **Major**  
  - African American Studies (BA) (p. 985)
- **Minors**  
  - African American Studies (p. 987)  
  - Women’s Studies (p. 988)

**African American Studies, BA**

A unique facet of the AAST program is its commitment to scholarship on and service to Alabama African American communities, particularly the concerns of African-descended communities from Holt and the west side of Tuscaloosa to the Black Belt areas of Marion, Uniontown, Greensboro, Tuskegee, Selma, and Gee's Bend. The program places emphasis on developing students' understanding of interdisciplinary research and its centrality in African American Studies.

Office: 104 Manly Hall  
https://grs.as.ua.edu/undergraduate-programs/african-american-studies-overview/ 
grs@as.ua.edu
## Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

## Special Opportunities

Students have the opportunity to complete internships in a variety of settings. Students should contact the program office for more information. Students are strongly encouraged to enroll in a research methods course and to take advantage of study abroad opportunities.

The University of Alabama and The University of Alabama at Birmingham offer a joint degree in African American studies. Students earning the bachelor of arts (BA) degree with a major in African American studies must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

### Hours

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select five courses of the following:</td>
<td>15</td>
</tr>
<tr>
<td>AAST 201 Intro African Amer Study or AMS 201 Intro African Amer Study</td>
<td></td>
</tr>
<tr>
<td>AAST 302 The Black Church</td>
<td></td>
</tr>
<tr>
<td>AAST 303 Education Of Southern Blacks</td>
<td></td>
</tr>
<tr>
<td>AAST 319 19th Century Black History or HY 319 19th Century Black History</td>
<td></td>
</tr>
<tr>
<td>AAST 320 20th Century Black History or HY 320 20th Century Black History</td>
<td></td>
</tr>
<tr>
<td>AAST 352 Social Inequality</td>
<td></td>
</tr>
<tr>
<td>AAST 401 Black Intellectual Thought</td>
<td></td>
</tr>
<tr>
<td>AAST 435 Black Feminism</td>
<td></td>
</tr>
<tr>
<td>AAST 436 Gender and Black Masculinity</td>
<td></td>
</tr>
<tr>
<td>AAST 395 Special Topics</td>
<td></td>
</tr>
<tr>
<td>AAST 402 Special Topics</td>
<td></td>
</tr>
<tr>
<td>AAST 490 AAST Independent Study</td>
<td></td>
</tr>
<tr>
<td>AAST 495 Special Topics</td>
<td></td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select six courses of AAST electives or other approved electives</td>
<td>18</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>18</td>
</tr>
</tbody>
</table>

| Total Hours | 33 |

## Electives

Students may petition the Department of Gender and Race Studies to substitute any of the following courses when the focus and title is on African American or racial topics:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 300 Special Topics</td>
</tr>
<tr>
<td>AMS 321 African American Folk Art</td>
</tr>
</tbody>
</table>

### Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on The University of Alabama (UA) or The University of Alabama at Birmingham (UAB) campuses.

### Ancillary Courses

This major does not require ancillary courses.

### Required Minor

This major requires the completion of a minor.

### Additional Major Requirements

A minimum of 18 hours of 300- or 400-level courses in the major must be completed, nine hours of which must be at the 400 level. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

### Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level courses is junior standing or higher or permission of the instructor.

The major's interdisciplinary structure gives students the unique opportunity to meet the expectations of graduate admissions committees and prospective employers by demonstrating specialized
knowledge in a field of study and general training in a broad liberal arts curriculum. An African American Studies major is an ideal major or second major for those who desire to attend graduate school and professional programs in the following areas: law, education, English, economics, business management, social work, sports management, publishing, public health, sociology, film studies, psychology, city planning, public administration, political science, history, art, ethnic studies, public relations, communications, and the foreign service advanced degrees. American Studies majors teach in secondary schools, junior colleges, and universities and work for historical commissions, arts alliances, museums, libraries, and the private sector.

**Types of Jobs Accepted**
Recent graduates have accepted jobs in both city and federal government; they work in secondary education, journalism, public relations and advertising, business, have become successful artists, and have gone on to attend prestigious graduate school programs in a range of fields.

**Jobs of Experienced Alumni**
Jobs held by alumni include attorney, teacher, journalist, retail manager, public relations and advertising executive, fiction writer, poet, performance artist, television and film actor, website developer and social media consultant, social worker, guidance counselor, corporate executive, and professional musician.

Learn more about opportunities in this field at the Career Center

**African American Studies, Minor**

Office: 104 Manly Hall
https://grs.as.ua.edu/undergraduate-programs/african-american-studies-overview/
grs@as.ua.edu

**Admission into the Minor**
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select four of the following:</td>
<td></td>
</tr>
<tr>
<td>AAST 201 Intro African Amer Study</td>
<td>12</td>
</tr>
<tr>
<td>or AMS 201 Intro African Amer Study</td>
<td></td>
</tr>
<tr>
<td>AAST 249 African American Literature</td>
<td></td>
</tr>
<tr>
<td>or EN 249 African American Literature I</td>
<td></td>
</tr>
<tr>
<td>AAST 302 The Black Church</td>
<td></td>
</tr>
<tr>
<td>AAST 303 Education Of Southern Blacks</td>
<td></td>
</tr>
<tr>
<td>AAST 319 19th Century Black History</td>
<td></td>
</tr>
<tr>
<td>or HY 319 19th Century Black History</td>
<td></td>
</tr>
<tr>
<td>AAST 320 20th Century Black History</td>
<td></td>
</tr>
<tr>
<td>or HY 320 20th Century Black History</td>
<td></td>
</tr>
<tr>
<td>AAST 352 Social Inequality</td>
<td></td>
</tr>
<tr>
<td>AAST 401 Black Intellectual Thought</td>
<td></td>
</tr>
</tbody>
</table>

| AAST 435 Black Feminism | Credit Hours Subtotal: 12 |
| AAST 436 Gender and Black Masculinity | |

**Electives**
Select three AAST electives or other approved electives

| Credit Hours Subtotal: 9 |

**Total Hours**
21

**Additional Courses**
Students may petition the Department of Gender and Race Studies to substitute any of the following courses when the focus and title is on African American or racial topics:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 300 Special Topics</td>
</tr>
<tr>
<td>AMS 321 African American Folk Art</td>
</tr>
<tr>
<td>AMS 340 Women in the South</td>
</tr>
<tr>
<td>AMS 341 African American Art</td>
</tr>
<tr>
<td>AMS 402 Special Topics</td>
</tr>
<tr>
<td>AMS 405 Directed Study</td>
</tr>
<tr>
<td>AMS 492 American Topic Seminar</td>
</tr>
<tr>
<td>ARH 481 Topics 20th Century Art</td>
</tr>
<tr>
<td>CJ 303 Race, Ethnicity, and Crime</td>
</tr>
<tr>
<td>COM 395 Special Topics</td>
</tr>
<tr>
<td>COM 413 Communication &amp; Diversity</td>
</tr>
<tr>
<td>COM 467 Seminar Public Address</td>
</tr>
<tr>
<td>COM 495 Special Topics</td>
</tr>
<tr>
<td>EN 311 Special Topics In Literature</td>
</tr>
<tr>
<td>EN 488 Adv Stdy African American Lit</td>
</tr>
<tr>
<td>GY 344 Geography Of Africa</td>
</tr>
<tr>
<td>HY 300 Special Studies in History</td>
</tr>
<tr>
<td>HY 400 Special Studies in History</td>
</tr>
<tr>
<td>PSC 364 African Amer &amp; Polit Sys</td>
</tr>
<tr>
<td>REL 237 Self Society &amp; Religions</td>
</tr>
<tr>
<td>REL 480 Seminar Rel and Conflict</td>
</tr>
<tr>
<td>SW 351 Oppression &amp; Soc Injustice</td>
</tr>
</tbody>
</table>

**Grade Point Average**
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**
A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

**Ancillary Courses**
This minor does not require ancillary courses.

**Additional Minor Requirements**
Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also
available for additional assistance with minor, college and University requirements.

**Prerequisites**

Unless otherwise stated, the prerequisite for 300- and 400-level courses is junior standing or higher or permission of the instructor.

**Special Opportunities**

Students have the opportunity to complete internships in a variety of settings. Students should contact the program office for more information. The program also offers occasional study abroad opportunities.

**Women’s Studies, Minor**

Office: 104 Manly Hall

https://grs.as.ua.edu/undergraduate-programs/womens-studies-overview/womens-studies-minor/

womenstudies@as.ua.edu

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor application online under the Student tab of myBama.

**Minor Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS 200</td>
<td>Intro To Women Studies</td>
<td>3</td>
</tr>
<tr>
<td>WS 430 or WS 470</td>
<td>Contemporary Issues: Feminist Theory Gender, Race, and Class</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

**Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three hours of WS elective 300 or 400 level</td>
<td>3</td>
</tr>
<tr>
<td>Select nine hours of WS elective or approved elective</td>
<td>9</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 12

Total Hours 18

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

**Additional Minor Requirements**

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Department of Geography**

The department of geography offers majors in environmental science and geography. The major in geography may culminate in either a bachelor of arts (BA) degree or a bachelor of science (BS) degree. The department also offers a minor in geography, a minor in geographic information systems and certificate programs in geographic information systems or regional and urban planning.

- **Majors**
  - Geography (BA) (p. 989)
  - Geography (BS) (p. 991)

- **Minors**
  - Geography (p. 992)
  - Geographic Information Systems (GIS) (p. 989)

**[object Object]**

**GY101 Atmospheric Proc & Patterns**

*Hours 4*

Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

**Natural Science**

**GY102 Earth Surface Processes**

*Hours 4*

Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

**Natural Science**

**View All Courses**

**Faculty**

**Chair and Professor**

Sherman, Douglas J.

**Professors**

Appiah Opoku, Seth

Curtin, Kevin

Han, Luoheng

Liu, Hongxing

Therrell, Matthew

Weber, Joe

**Associate Professors**

Cohen, Sagy

Davis, Lisa

Hart, Justin

Senkbeil, Jason

Steinberg, Michael K.

**Assistant Professors**

Keellings, David

Lafevor, Matthew

Magliocca, Nicholas
Instructors
Ericson, Steven
Wallace-Pitts, Mary

Adjunct associate professor
Richetto, Jeffrey

Associate Research Professor
Bearden, Bennett

Geospatial Services Manager
Engstrom, Johanna

Director Cartographic Research Laboratory
Remington, Craig

Geographic Information Systems (GIS), Minor

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Geographic Information Systems (GIS) minor requirements for Geography majors:

<table>
<thead>
<tr>
<th>Geographic Information Systems (GIS) Minor</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 420 Remote Sensing I</td>
<td>4</td>
</tr>
<tr>
<td>GY 430 Intro Geographic Info Systems</td>
<td>3</td>
</tr>
<tr>
<td>GY 430 Intro Geographic Info Systems</td>
<td>1</td>
</tr>
<tr>
<td>Select three of the following courses:</td>
<td>12</td>
</tr>
<tr>
<td>GY 330 Computr Mapping Graphics</td>
<td></td>
</tr>
<tr>
<td>GY 431 GIS in Emergency Management</td>
<td></td>
</tr>
<tr>
<td>GY 435 Remote Sensing II</td>
<td></td>
</tr>
<tr>
<td>GY 436 Adv Geographic Info Syst</td>
<td></td>
</tr>
<tr>
<td>GY 437 GIS for Transportation</td>
<td></td>
</tr>
<tr>
<td>GY 438 Application Issues In Gis</td>
<td></td>
</tr>
<tr>
<td>GY 439 GIS Programming</td>
<td></td>
</tr>
<tr>
<td>GY 442 GIS in Biogeography</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six semester hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
The minor in geographic information systems is not open to geography majors in the geographic information techniques concentration (III). Students are responsible for ensuring that they have met all requirements. However, each student must meet with an adviser in the Department of Geography for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Geography, BA
Geography students are typically interested in protecting natural resources, planning the best possible use of land, teaching about interactions among people and places, developing and applying advanced new technologies, and solving environmental problems. Geographers can make a difference — from teaching to planning, from working for sustainable development to working with geospatial technologies and more.

Admission into the Major
Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
The Department of Geography offers internship opportunities with the Geological Survey of Alabama and local planning agencies. The department also offers certificate programs in Geographic Information Systems (GIS) and in regional and urban planning. Additional information is available in the Department of Geography office.

Students earning the bachelor of arts (BA) degree with a major in geography must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 330 Computr Mapping Graphics</td>
</tr>
<tr>
<td>GY 431 GIS in Emergency Management</td>
</tr>
<tr>
<td>GY 435 Remote Sensing II</td>
</tr>
<tr>
<td>GY 436 Adv Geographic Info Syst</td>
</tr>
<tr>
<td>GY 437 GIS for Transportation</td>
</tr>
<tr>
<td>GY 438 Application Issues In Gis</td>
</tr>
<tr>
<td>GY 439 GIS Programming</td>
</tr>
<tr>
<td>GY 442 GIS in Biogeography</td>
</tr>
</tbody>
</table>

**Total Hours**: 19
### Undergraduate Catalog

**GY 101**  Atmospheric Proc & Patterns  4  
**GY 102**  Earth Surface Processes  4  
**GY 105**  World Regional Geography  3  
**GY 110**  People, Places, & Environment  3  
**GY 204**  Map & Air Photo Interpretation  4  

Credit Hours Subtotal:  18

**Concentration**

Select a GY concentration from the list below  12  

Credit Hours Subtotal:  12

**Electives**

Select six hours of GY electives  6  

Credit Hours Subtotal:  6

Total Hours  36

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

The geography major requires completion of a minor.

**Additional Major Requirements**

A maximum of 3 hours of internship or practicum credit can be applied to the major. Each geography course applied to the 36-hour requirement must be completed with a grade of C- or higher. Students are responsible for ensuring that they have met all requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Concentrations**

Students must earn a minimum of 12 hours from one of the following three concentrations. With approval, topic appropriate GY 470 Special Topics may be substituted in each concentration.

**Concentration I: Earth System Science (minimum of 12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 202</td>
<td>The Water Planet</td>
<td>4</td>
</tr>
<tr>
<td>GY 302</td>
<td>Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 363</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 404</td>
<td>Physical Geography Seast Us</td>
<td>3</td>
</tr>
<tr>
<td>GY 405</td>
<td>Dir Res Physical Geog</td>
<td>1-3</td>
</tr>
<tr>
<td>GY 409</td>
<td>Forest History and Restoration</td>
<td>4</td>
</tr>
<tr>
<td>GY 412</td>
<td>Hydroclimatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 413</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 414</td>
<td>Climate Change and Health</td>
<td>3</td>
</tr>
<tr>
<td>GY 463</td>
<td>Ecosystem Services: Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>GY 470</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>GY 472</td>
<td>Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>GY 485</td>
<td>River Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GY 486</td>
<td>Watershed Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GY 489</td>
<td>Forest Ecology Veg Analy</td>
<td>4</td>
</tr>
<tr>
<td>GY 491</td>
<td>Fluvial Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 492</td>
<td>Eastern Forest Communities</td>
<td>4</td>
</tr>
<tr>
<td>GY 494</td>
<td>Forest Measurement &amp; Methods</td>
<td>4</td>
</tr>
<tr>
<td>GY 495</td>
<td>Coastal Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 496</td>
<td>Forest Ecosystems</td>
<td>4</td>
</tr>
<tr>
<td>GY 485</td>
<td>River Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GY 486</td>
<td>Watershed Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GY 489</td>
<td>Forest Ecology Veg Analy</td>
<td>4</td>
</tr>
<tr>
<td>GY 491</td>
<td>Fluvial Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 492</td>
<td>Eastern Forest Communities</td>
<td>4</td>
</tr>
<tr>
<td>GY 494</td>
<td>Forest Measurement &amp; Methods</td>
<td>4</td>
</tr>
<tr>
<td>GY 495</td>
<td>Coastal Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 496</td>
<td>Forest Ecosystems</td>
<td>4</td>
</tr>
</tbody>
</table>

**Concentration II: Regional, Urban and Environmental Planning (minimum of 12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 200</td>
<td>Principles Of Planning</td>
<td>3</td>
</tr>
<tr>
<td>GY 317</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GY 339</td>
<td>Natural Resource Envirm Plang</td>
<td>3</td>
</tr>
<tr>
<td>GY 341</td>
<td>Geography Of Us And Canada</td>
<td>3</td>
</tr>
<tr>
<td>GY 344</td>
<td>Geography Of Africa</td>
<td>3</td>
</tr>
<tr>
<td>GY 346</td>
<td>Geography of Europe</td>
<td>3</td>
</tr>
<tr>
<td>GY 351</td>
<td>Geography Of Alabama</td>
<td>3</td>
</tr>
<tr>
<td>GY 358</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 365</td>
<td>Industrial Develop &amp; Location</td>
<td>3</td>
</tr>
<tr>
<td>GY 370</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>GY 375</td>
<td>Sports Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 377</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 385</td>
<td>Watershed Management Plan Development</td>
<td>3</td>
</tr>
<tr>
<td>GY 406</td>
<td>Dir Res Human Geography</td>
<td>1-3</td>
</tr>
<tr>
<td>GY 410</td>
<td>National Parks</td>
<td>3</td>
</tr>
<tr>
<td>GY 415</td>
<td>The Geography of Extinctions and Endangered Species</td>
<td>3</td>
</tr>
<tr>
<td>GY 417</td>
<td>Extreme Weather and Society</td>
<td>3</td>
</tr>
<tr>
<td>GY 440</td>
<td>Commun Facil Planning</td>
<td>3</td>
</tr>
<tr>
<td>GY 441</td>
<td>Land Use Regulations</td>
<td>3</td>
</tr>
<tr>
<td>GY 444</td>
<td>Field Studies In Africa</td>
<td>6</td>
</tr>
<tr>
<td>GY 445</td>
<td>Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>GY 450</td>
<td>Field Studies in Belize</td>
<td>6</td>
</tr>
<tr>
<td>GY 452</td>
<td>Environ Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>GY 453</td>
<td>Environment &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>GY 454</td>
<td>Costa Rica Field Studies: Tropical Ecology, Conservation, and Development</td>
<td>4</td>
</tr>
<tr>
<td>GY 455</td>
<td>Planning Practicum</td>
<td>3-9</td>
</tr>
<tr>
<td>GY 456</td>
<td>Planning Internship</td>
<td>3-9</td>
</tr>
<tr>
<td>GY 458</td>
<td>Urban Planning And Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GY 465</td>
<td>Region Planning Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GY 466</td>
<td>Transport Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 470</td>
<td>Special Topics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Concentration III: Geographic Information Techniques (minimum of 12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 330</td>
<td>Computr Mapping Graphics</td>
<td>4</td>
</tr>
<tr>
<td>GY 420</td>
<td>Remote Sensing I</td>
<td>4</td>
</tr>
<tr>
<td>GY 424</td>
<td>Cartography Practicum</td>
<td>3-9</td>
</tr>
<tr>
<td>GY 425</td>
<td>Cartography Internship</td>
<td>3-9</td>
</tr>
</tbody>
</table>
Types of Jobs Accepted

Our graduates accept positions such as environmental consultant; forest technician; Geographic Information Systems analyst; land steward; park ranger; regional, urban, or environmental planner; remote sensing analyst; scientist; software engineer; agent with the Central Intelligence Agency; and as staff members of the U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Geological Survey, NASA, and city, county, and regional planning commissions.

Learn more about opportunities in this field at the Career Center

Geography, BS

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students may declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The Department of Geography offers internship opportunities with the Geological Survey of Alabama and local planning agencies. The department also offers certificate programs in Geographic Information Systems (GIS) and in regional and urban planning. Additional information is available in the Department of Geography office.

Students earning the bachelor of science (BS) degree in geography must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Credit Hours Subtotal: 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 101    Atmospheric Proc &amp; Patterns</td>
<td>4</td>
</tr>
<tr>
<td>GY 102    Earth Surface Processes</td>
<td>4</td>
</tr>
<tr>
<td>GY 105    World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 110    People, Places, &amp; Environment</td>
<td>3</td>
</tr>
<tr>
<td>GY 204    Map &amp; Air Photo Interpretation</td>
<td>4</td>
</tr>
</tbody>
</table>

| Concentration | Credit Hours Subtotal: 12 |

| Electives     | Credit Hours Subtotal: 6  |

| Ancillary Courses |

Grades in ancillary courses are not computed into the major GPA. The major in geography culminating in a bachelor of science (BS) degree requires the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours Subtotal: 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145 Honors Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Select a statistics course:</td>
<td>3</td>
</tr>
<tr>
<td>ST 260 Statistical Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>PY 211 Elem Statistical Methods</td>
<td>4</td>
</tr>
<tr>
<td>BER 345 Educational Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours 43

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

The geography major requires completion of a minor.

Additional Major Requirements

A maximum of three hours of internship or practicum credit can be applied to the major. Each geography course applied to the 36-hour requirement must be completed with a grade of C- or higher. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Concentrations

Students must earn at least 12 hours from one of the following three concentrations. With approval, topic appropriate GY 470 Special Topics may be substituted in each concentration.

Concentration I: Earth System Science (minimum of 12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours Subtotal: 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 202 The Water Planet</td>
<td>4</td>
</tr>
<tr>
<td>GY 302 Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 363 Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 404 Physical Geography Seast Us</td>
<td>3</td>
</tr>
<tr>
<td>GY 405 Dir Res Physical Geog</td>
<td>1-3</td>
</tr>
<tr>
<td>GY 409 Forest History and Restoration</td>
<td>4</td>
</tr>
<tr>
<td>GY 412 Hydroclimatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 413 Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 414 Climate Change and Health</td>
<td>3</td>
</tr>
<tr>
<td>GY 463 Ecosystem Services: Theory and Practice</td>
<td>4</td>
</tr>
</tbody>
</table>
### Undergraduate Catalog

**GY 470**: Special Topics 3
**GY 472**: Soil Science 4
**GY 485**: River Hydrology 3
**GY 486**: Watershed Dynamics 3
**GY 489**: Forest Ecology Veg Analy 4
**GY 491**: Fluvial Geomorphology 3
**GY 492**: Eastern Forest Communities 4
**GY 494**: Forest Measurement & Methods 4
**GY 495**: Coastal Geomorphology 3
**GY 496**: Forest Ecosystems 4

**Concentration II: Regional, Urban and Environmental Planning (minimum of 12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 200</td>
<td>Principles Of Planning</td>
<td>3</td>
</tr>
<tr>
<td>GY 317</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GY 339</td>
<td>Natural Resource Envirmn Plang</td>
<td>3</td>
</tr>
<tr>
<td>GY 341</td>
<td>Geography Of Us And Canada</td>
<td>3</td>
</tr>
<tr>
<td>GY 344</td>
<td>Geography Of Africa</td>
<td>3</td>
</tr>
<tr>
<td>GY 346</td>
<td>Geography of Europe</td>
<td>3</td>
</tr>
<tr>
<td>GY 351</td>
<td>Geography Of Alabama</td>
<td>3</td>
</tr>
<tr>
<td>GY 358</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 365</td>
<td>Industrial Develop &amp; Location</td>
<td>3</td>
</tr>
<tr>
<td>GY 370</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>GY 375</td>
<td>Sports Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 377</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 385</td>
<td>Watershed Management Plan Development (Watershed Management Plan)</td>
<td>3</td>
</tr>
</tbody>
</table>

**GY 406**: Dir Res Human Geography 1-3
**GY 410**: National Parks 3
**GY 415**: The Geography of Extinctions and Endangered Species 3
**GY 417**: Extreme Weather and Society 3
**GY 440**: Commun Facil Planning 3
**GY 441**: Land Use Regulations 3
**GY 444**: Field Studies In Africa | 6 |
**GY 445**: Agriculture 3
**GY 450**: Field Studies in Belize 6
**GY 452**: Environ Decision Making 3
**GY 453**: Environment & Society 3
**GY 454**: Costa Rica Field Studies: Tropical Ecology, Conservation, and Development 4

**GY 455**: Planning Practicum 3-9
**GY 456**: Planning Internship 3-9
**GY 458**: Urban Planning And Analysis 3
**GY 465**: Region Planning Analysis 3
**GY 466**: Transport Geography 3
**GY 470**: Special Topics 3

**GY 424**: Cartography Practicum 3-9
**GY 425**: Cartography Internship 3-9
**GY 430**: Intro Geographic Info Systems 1,3
**GY 431**: GIS in Emergency Management 4
**GY 433**: GIS Practicum 3-9
**GY 434**: GIS Internship 3-9
**GY 435**: Remote Sensing II 4
**GY 436**: Adv Geographic Info Syst 4
**GY 437**: GIS for Transportation 4
**GY 438**: Application Issues In Gis 4
**GY 439**: GIS Programming 4
**GY 442**: GIS in Biogeography 4

**Concentration III: Geographic Information Techniques (minimum of 12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 330</td>
<td>Computr Mapping Graphics</td>
<td>4</td>
</tr>
<tr>
<td>GY 420</td>
<td>Remote Sensing I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Types of Jobs Accepted**

Our graduates accept positions such as environmental consultant; forest technician; geographic information systems analyst; land steward; park ranger; regional and urban or environmental planner; remote sensing analyst; scientist; software engineer; agent with the Central Intelligence Agency; U.S. Environmental Protection Agency staff person; U.S. Forest Service staff person; U.S. Geological Survey staff person; National Oceanic & Atmospheric Administration staff person; city, county and regional planning commissioner.

Learn more about opportunities in this field at the Career Center

### Geography, Minor

#### Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Minor Courses</td>
</tr>
<tr>
<td>GY 101 or Atmospheric Proc &amp; Patterns</td>
</tr>
<tr>
<td>GY 102 Earth Surface Processes</td>
</tr>
<tr>
<td>GY 105 or World Regional Geography</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 7

**Electives**

Select nine hours of GY electives 300 or 400 level 9
Select two hours of GY electives 2

**Credit Hours Subtotal:** 11

**Total Hours:** 18

### Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

### Ancillary Courses

This minor does not require ancillary courses.

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**Concentration II: Regional, Urban and Environmental Planning (minimum of 12 hours)**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY 200</td>
<td>Principles Of Planning</td>
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</tr>
<tr>
<td>GY 317</td>
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</tr>
<tr>
<td>GY 339</td>
<td>Natural Resource Envirmn Plang</td>
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<tr>
<td>GY 341</td>
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<td>3</td>
</tr>
<tr>
<td>GY 344</td>
<td>Geography Of Africa</td>
<td>3</td>
</tr>
<tr>
<td>GY 346</td>
<td>Geography of Europe</td>
<td>3</td>
</tr>
<tr>
<td>GY 351</td>
<td>Geography Of Alabama</td>
<td>3</td>
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<tr>
<td>GY 358</td>
<td>Urban Geography</td>
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</tr>
<tr>
<td>GY 365</td>
<td>Industrial Develop &amp; Location</td>
<td>3</td>
</tr>
<tr>
<td>GY 370</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>GY 375</td>
<td>Sports Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 377</td>
<td>Cultural Geography</td>
<td>3</td>
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<td>GY 385</td>
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**GY 415**: The Geography of Extinctions and Endangered Species 3
**GY 417**: Extreme Weather and Society 3
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**GY 465**: Region Planning Analysis 3
**GY 466**: Transport Geography 3
**GY 470**: Special Topics 3

**GY 424**: Cartography Practicum 3-9
**GY 425**: Cartography Internship 3-9
**GY 430**: Intro Geographic Info Systems 1,3
**GY 431**: GIS in Emergency Management 4
**GY 433**: GIS Practicum 3-9
**GY 434**: GIS Internship 3-9
**GY 435**: Remote Sensing II 4
**GY 436**: Adv Geographic Info Syst 4
**GY 437**: GIS for Transportation 4
**GY 438**: Application Issues In Gis 4
**GY 439**: GIS Programming 4
**GY 442**: GIS in Biogeography 4

**Types of Jobs Accepted**

Our graduates accept positions such as environmental consultant; forest technician; geographic information systems analyst; land steward; park ranger; regional and urban or environmental planner; remote sensing analyst; scientist; software engineer; agent with the Central Intelligence Agency; U.S. Environmental Protection Agency staff person; U.S. Forest Service staff person; U.S. Geological Survey staff person; National Oceanic & Atmospheric Administration staff person; city, county and regional planning commissioner.

Learn more about opportunities in this field at the Career Center

### Geography, Minor

#### Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor Courses</td>
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<tr>
<td>GY 101 or Atmospheric Proc &amp; Patterns</td>
</tr>
<tr>
<td>GY 102 Earth Surface Processes</td>
</tr>
<tr>
<td>GY 105 or World Regional Geography</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 7

**Electives**

Select nine hours of GY electives 300 or 400 level 9
Select two hours of GY electives 2

**Credit Hours Subtotal:** 11

**Total Hours:** 18

### Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

### Ancillary Courses

This minor does not require ancillary courses.
Additional Minor Requirements
Internship or practicum credit hours cannot be applied to the minor. Students are responsible for ensuring that they have met all requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of Geological Sciences
The department of geological sciences offers undergraduate majors leading to the bachelor of arts (BA), bachelor of science (BS) and bachelor of science in geology (BSG) degrees, as well as a double major in marine science/geological science. An undergraduate minor is also offered. Honors programs are available for the bachelor of science and bachelor of science in geology degrees.

- Majors
  - Geology (BA) (p. 993)
  - Geology (BS) (p. 994)
  - Geology (BSG) (p. 995)
- Minor
  - Geology (p. 996)

GEO101 The Dynamic Earth
Hours 4
Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.

Natural Science
GEO102 The Earth Through Time
Hours 4
Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.

Natural Science

Faculty
Chair
Andrus, C. Fred T.
Associate Professors
Goodliffe, Andrew M.
Hansen, Samantha
Lu, Yuehan
Perez-Huerta, Alberto
Robinson, Delores M.
Tick, Geoffrey R.
Zhang, Yong

Professors
Cemen, Ibrahim
Donahoe, Rona J.
Stowell, Harold H.
Zheng, Chunmiao

Assistant Professors
Cartwright, Julia
Dimova, Natasha
Genareau, Kimberly
Keene, Deborah
Mahatsente, Rezene
Minzoni, Marcello
Minzoni, Rebecca
Nearing, Grey
Tobin, Thomas
Wielicki, Matthew
Zhang, Bo

Part-time Instructors
Elliott, Emily
Lambert, W. Joe
Smithson, Tony
Whitaker, Laura
Wielicki, Michelle

Professors Emeriti
Aharon, Paul
Groshong, Richard
Hooks, Gary
Mancini, Ernest
Stock, Carl

Geology, BA
Geology often draws students with interest in the outdoors and travel, and concern for environmental and energy issues, as well as those pursuing careers in geosciences-related industries. Geology applies chemistry, physics, mathematics, and sometimes biology to understanding earth processes, so students take a broad array of ancillary science classes. Additionally, majors train in the specialized laboratory and field skills required by professional geologists.

Admission into the Major
Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
The Department supports a Geology Club in which students participate in educational, social, and community service activities, often including field
trips. Additionally, undergraduates are encouraged to conduct laboratory and field research under the direction of faculty.

Students earning the bachelor of arts (BA) degree with a major in geology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 101 The Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEO 102 The Earth Through Time</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO electives 300 or 400 level</td>
<td>12</td>
</tr>
<tr>
<td>GEO electives</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total Hours 30**

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations. All GEO courses must be passed with a minimum grade of C-.

**Upper-level Residency**

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

**Ancillary Courses**

This major does not require ancillary courses.

**Required Minor**

The geology major (BA) requires completion of a minor.

**Additional Major Requirements**

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Prerequisites**

Prerequisites for all GEO courses must be passed with a minimum grade of C-.

Geologists have broad career options. Common fields of employment include environmental assessment and remediation, water resources, geotechnical consulting, energy, earth materials, hazard assessments, academic research, and education. Some examples of employers would be environmental and geotechnical firms, energy and mining companies, public utilities, building material suppliers, and state and federal government.

**Types of Jobs Accepted**

Majors graduate to become geochemists, hydrogeologists, geophysicists, petroleum geologists, resource exploration geologists, hazard assessors, environmental regulators, geotechnical engineers, environmental lawyers, and consultants. Some graduates become licensed public geologists.

**Jobs of Experienced Alumni**

Alumni hold an impressive array of jobs as leaders of national and international energy corporations, environmental and geotechnical firms, and mining and materials production companies. Several majors became entrepreneurs and founded companies focused on geotechnical consulting, energy exploration, environmental remediation, and other key industries. Others conduct research at universities, national laboratories, museums, state and U.S. Geological Survey offices, and other government agencies including NASA, the Department of Energy, the Department of the Interior, and the Environmental Protection Agency.

Learn more about opportunities in this field at the Career Center.

**Geology, BS**

Geology often draws students with interests in the outdoors, travel, concern for environmental and energy issues and those pursuing careers in geosciences-related industries. Geology applies chemistry, physics, mathematics, and sometimes biology to understanding earth processes, so students take a broad array of ancillary science classes. Additionally, majors train in the specialized laboratory and field skills required by professional geologists.

**Admission into the Major**

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Special Opportunities**

Interested students pursuing a major in geology (BS or BSG) can apply for admission to the Geological Sciences Honors Program after earning 13 hours of geological science courses. In addition to meeting the major requirements for BS or BSG, participants must maintain a 3.3 GPA for all geological science courses and 3.0 cumulative GPA. Honors students earn a grade of Pass or Fail in the honors seminars (GEO 435 Honors Sem In Geology and GEO 436 Honors Sem In Geology). They must also complete six hours of honors research (GEO 499 Research In Geology) and present the results in the honors seminar. Students should also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member of the Department of Geological Sciences.

Students earning the bachelor of science (BS) degree must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total 128 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 101 The Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEO 102 The Earth Through Time</td>
<td>4</td>
</tr>
<tr>
<td>GEO 210 Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEO 314 Ig. &amp; Meta. Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEO 365 Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 367 Sedimentology/Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GEO 495 Field Geology</td>
<td>6</td>
</tr>
</tbody>
</table>

| Electives | Credit Hours Subtotal: 36 |

**Credit Hours Subtotal:**

36
Companies, public utilities, building material suppliers, and state and national governments are some examples of employers that would be environmental and geotechnical firms, energy and mining companies, and others. Geologists have broad career options. Common fields of employment include environmental assessment and remediation, water resources, geotechnical consulting, energy, earth materials, hazard assessments, academic research, and education. Some examples of employers are the Environmental Protection Agency, the Department of the Interior, and the Department of Energy, laboratories, museums, state and U.S. Geological Survey offices, and other government agencies including NASA, the Department of Energy, the Department of the Interior, and the Environmental Protection Agency to name a few.

Learn more about opportunities in this field at the Career Center.

Geology, BSG

Geology often draws students with interests in the outdoors, travel, concern for environmental and energy issues and those pursuing careers in geosciences-related industries. Geology applies chemistry, physics, mathematics and sometimes biology to understanding earth processes, so students take a broad array of ancillary science classes. Additionally, majors train in the specialized laboratory and field skills required by professional geologists.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

Interested students pursuing a major in geology (BS or BSG) can apply for admission to the Geological Sciences Honors Program after earning 13 hours of geological science courses. In addition to meeting the major requirements for BS or BSG, participants must maintain a 3.3 GPA for all geological science courses and 3.0 cumulative GPA. Honors students earn a grade of Pass or Fail in the honors seminars (GEO 435 Honors Sem In Geology and GEO 436 Honors Sem In Geology). They must also complete six hours of honors research (GEO 499 Research In Geology) and present the results in the honors seminar. Students should also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member of the Department of Geological Sciences.

Students earning the bachelor of science in geology degree (BSG) must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, and other sufficient credits to total 128 applicable semester hours.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Major Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GEO 101</td>
</tr>
<tr>
<td></td>
<td>GEO 102</td>
</tr>
<tr>
<td></td>
<td>GEO 210</td>
</tr>
</tbody>
</table>

### Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

### Required Minor

The geology major (BS) requires completion of a minor.

### Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be approved for registration each semester. College advisors are also available for additional assistance with minor, College and University requirements.

### Prerequisites

Prerequisites for all GEO courses must be passed with a minimum grade of C-.

Geologists have broad career options. Common fields of employment include environmental assessment and remediation, water resources, geotechnical consulting, energy, earth materials, hazard assessments, academic research, and education. Some examples of employers would be environmental and geotechnical firms, energy and mining companies, public utilities, building material suppliers, and state and federal government.

### Types of Jobs Accepted

Majors graduate to become geochemists, hydrogeologists, geophysicists, petroleum geologists, resource exploration geologists, hazard assessors, environmental regulators, geotechnical engineers, environmental lawyers, and consultants. Some graduates become Licensed Public Geologists.

### Jobs of Experienced Alumni

Alumni hold an impressive array of jobs as leaders of national and international energy corporations, environmental and geotechnical firms, and mining and materials production companies. Several majors became entrepreneurs and founded companies focused on geotechnical consulting, energy exploration, environmental remediation and other key industries. Others conduct research at universities, national laboratories, museums, state and U.S. Geological Survey offices, and other government agencies including NASA, the Department of Energy, the Department of the Interior, and the Environmental Protection Agency to name a few.

Learn more about opportunities in this field at the Career Center.
GEO 314  Ign. & Meta. Petrology 4
GEO 365  Structural Geology 3
GEO 367  Sedimentology/Stratigraphy 4
GEO 495  Field Geology 6
Select two of the following: 6
GEO 355  Invertebrate Paleontology
GEO 369  Introduction Geophysics
GEO 470  General Geochemistry
GEO electives 10
Credit Hours Subtotal: 45

Ancillary Courses
Grades in ancillary courses are not computed into the major GPA. This major requires successful completion of the following courses outside the major:

CH 101 or  General Chemistry 4
CH 117  Honors General Chemistry
CH 102 or  General Chemistry 4
CH 118  Honors General Chemistry
Select one of the following: 4
PH 101  General Physics I
PH 105  General Physics W/Calc I
PH 125  Honors Gen Ph W/Calculus
Select one of the following: 4
PH 102  General Physics II
PH 106  General Physics W/Calc II
PH 126  Honors Gen Ph W/Calculus II
MATH 125 or  Calculus I 4
MATH 126 or  Calculus II 4
MATH 145  Honors Calculus I
MATH 146  Honors Calculus II
Credit Hours Subtotal: 24

Total Hours 69

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations. All GEO courses must be passed with a minimum grade of C-.

Upper-level Residency
A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Required Minor
The major in geology for the BSG degree does not require a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
Prerequisites for all GEO courses must be passed with a minimum grade of C-.

Geologists have broad career options. Common fields of employment include environmental assessment and remediation, water resources, geotechnical consulting, energy, earth materials, hazard assessments, academic research, and education. Some examples of employers would be environmental and geotechnical firms, energy and mining companies, public utilities, building material suppliers, and state and federal government.

Types of Jobs Accepted
Majors graduate to become geochemists, hydrogeologists, geophysicists, petroleum geologists, resource exploration geologists, hazard assessors, environmental regulators, geotechnical engineers, environmental lawyers, and consultants. Some graduates become Licensed Public Geologists.

Jobs of Experienced Alumni
Alumni hold an impressive array of jobs as leaders of national and international energy corporations, environmental and geotechnical firms, and mining and materials production companies. Several majors became entrepreneurs and founded companies focused on geotechnical consulting, energy exploration, environmental remediation, and other key industries. Others conduct research at universities, national laboratories, museums, state and U.S. Geological Survey offices, and other government agencies including NASA, the Department of Energy, the Department of the Interior, and the Environmental Protection Agency to name a few.

Learn more about opportunities in this field at the Career Center

Geology, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 101</td>
<td>The Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEO 102</td>
<td>The Earth Through Time</td>
<td>4</td>
</tr>
<tr>
<td>GEO electives 300 or 400 level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GEO electives</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours 18

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be completed on this campus.
Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of History
The department of history offers a bachelor of arts (BA) degree and a minor in history, as well as departmental honors to those who qualify for this program.

- Major
  - History (BA) (p. 997)
- Minors
  - History (p. 1000)
  - Latin American, Caribbean and Latino Studies (p. 1000)

HY101 Western Civ To 1648
HI
Hours 3
A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe. Usually offered in the summer session.

History

HY102 Western Civ Since 1648
HI
Hours 3
Covers the development of the Western world from the Thirty Years’ War to the post-World War II era: the age of absolutism, the Enlightenment, the French Revolution, industrialization and the wars of the 20th century. Usually offered in the summer session.

History

View All Courses

Faculty
Chair and Professor
Rothman, Joshua

Director of Graduate Studies in History
Riches, Daniel L.

Director, Undergraduate Studies in History
Mixson, James

Director of the Frances S. Summersell Center for the Study of the South
Giggie, John

Charles G. Summersell Chair in Southern History
Gordon, Lesley

Professors
Beeler, John F.
Frederickson, Kari
Beito, David T.
McClure, George W.

Associate Professors
Giggie, John
Kopelson, Heather
Grout, Holly
Shaw, Jenny
Peacock, Margaret
Abuzzo, Margaret N.
Bunker, Steven B.
Huebner, Andrew J.
Lindquist-Dorr, Lisa
Riches, Daniel L.
Selesky, Harold E.

Assistant professors
Luo, Di
Peterson, Erik
Ponce-Vazquez, Juan
Kaufman, Lucy
Steinbock-Pratt, Sarah
Green, Sharony
Cribelli, Teresa
Wasserman, Ian Janek

Professors emeriti
Freyer, Tony A.
Kohl, Lawrence F.
Rable, George
Delpar, Helen
Jones, Howard
Clayton, Lawrence A.
Mendle, Michael

History, BA
Students who major in history explore the people, institutions, and cultures of those who came before us. The study of the past is deeply connected to the present, and it gives students powerful tools for understanding and engaging a wide range of modern issues, debates, and questions. Moreover, studying history teaches valuable practical skills—critical, argumentation, writing, and more—that lead to success in a variety of career fields.

Admission into the Major
Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.
Special Opportunities

The Department of History offers a range of opportunities for undergraduate research, including a capstone research seminar. We offer a seminar and internships in public history, a student leadership program (the Peer Mentors), a study-abroad program (UA at Oxford), and a range of scholarships. The department also sponsors a History Club that is open to all students, as well as a chapter of Phi Alpha Theta, the national history honorary society.

Students earning the bachelor of arts (BA) degree with a major in history must complete all University, College and departmental degree requirements. Students can take a selection of the following courses in order to fulfill the requirements for the history major. In addition, students must fulfill all general education requirements, as well as requirements for an approved minor and other sufficient credits for a minimum of 120 applicable semester hours.

Fields

A minimum of 3 hours from each of the following fields must be completed for a total of 9 hours.

Field 1: United States History

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 101-108</td>
<td>12</td>
</tr>
<tr>
<td>HY 111-118</td>
<td></td>
</tr>
<tr>
<td>HY 101</td>
<td>Western Civ To 1648</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civ Since 1648</td>
</tr>
<tr>
<td>HY 103</td>
<td>American Civilization to 1865</td>
</tr>
<tr>
<td>HY 104</td>
<td>Am Civ Since 1865</td>
</tr>
<tr>
<td>HY 105</td>
<td>Honors West Civ To 1648</td>
</tr>
<tr>
<td>HY 106</td>
<td>Honors West Civ Sc 1648</td>
</tr>
<tr>
<td>HY 107</td>
<td>Honors Am Civ to 1865</td>
</tr>
<tr>
<td>HY 108</td>
<td>Honors Am Civ Sc 1865</td>
</tr>
<tr>
<td>HY 111</td>
<td>Colonial Latin America</td>
</tr>
<tr>
<td>HY 112</td>
<td>Modern Latin Am Since 1808</td>
</tr>
<tr>
<td>HY 113</td>
<td>Asian Civilization to 1400</td>
</tr>
<tr>
<td>HY 114</td>
<td>Modern Asia since 1400</td>
</tr>
<tr>
<td>HY 115</td>
<td>History of Science to 1687</td>
</tr>
<tr>
<td>HY 116</td>
<td>History of Science Since 1687</td>
</tr>
<tr>
<td>HY 117</td>
<td>World History to 1500</td>
</tr>
<tr>
<td>HY 118</td>
<td>World History Since 1500</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>12</td>
</tr>
</tbody>
</table>

Field Requirement

Select three hours from each field |
| Credit Hours Subtotal: | 9 |

Electives

Select nine hours of HY electives |
| Credit Hours Subtotal: | 9 |

HY 430 UG Research Seminar 1 |
| 3 |

Total Hours | 33 |

1 A minimum grade of C (2.0) is required to receive credit for HY 430 UG Research Seminar. Students who complete a history honors thesis are exempt from this requirement.

Field 2: European History

<table>
<thead>
<tr>
<th>Field 2: European History</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 235</td>
<td>Christ Church To 1500</td>
</tr>
</tbody>
</table>
African, Asian or Latin American History

Field 3: African, Asian or Latin American History

HY 247 England To 1688 3
HY 248 England Since 1688 3
HY 305 Topics in European History 3
HY 346 Epidemics! A History of Medicine 3
HY 349 History of France 1760-present 3
HY 355 German History Sc 1740 3
HY 357 World War I 3
HY 358 World War II 3
HY 361 Russia to 1894 3
HY 362 Russia-Soviet Union since 1894 3
HY 365 European Consumer Society 3
HY 385 History Of Greece 3
HY 386 History Of Rome 3
HY 388 The Crusades 3
HY 405 Topics in European History 3
HY 442 The Middle Ages 3
HY 443 Renaissance 3
HY 483 Thirty Years' War 3
HY 444 Reform & Counter-Reformation 3
HY 446 Age of Reason 1715-89 3
HY 448 Women in Europe since 1750 3
HY 451 Early Modern Germany 3
HY 455 The Darwinian Revolution 3
HY 481 War/Dipl. in Med & Mod. Europe 3
HY 482 War & Religion in the West 3
HY 490 England under Tudors 3
HY 491 England under Stuarts 3
HY 493 Britain in the 18th Century 3
HY 494 Britain in the in the Victorian Age 3

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 15 semester hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The history major does not require ancillary courses. However, it is recommended that students, especially those considering graduate work in history, study at least one foreign language.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

History 200-, 300- and 400-level courses are open to all students of sophomore standing or higher.

Honors Program

The history honors program is open to history majors who have a cumulative GPA of at least 3.0, a 3.3 GPA or above in history, and at least 12 hours of HY courses completed. The program requires nine hours of honors work, including HY 399 History Honors Colloquium, a six-hour thesis (HY 498 Honors Thesis I and HY 499 Honors Thesis II) to be completed under the direction of a tenured or tenure-track member of the department. HY 399 History Honors Colloquium is usually taken in the junior year; HY 498 Honors Thesis I and HY 499 Honors Thesis II are typically completed in the senior year. Students who complete a History Honors thesis (HY 498 Honors Thesis I/HY 499 Honors Thesis II) are exempt from HY 430 UG Research Seminar requirement. In order to graduate with honors in history, students must have a cumulative GPA of at least 3.0, a 3.3 GPA or above in history, and satisfactory completion of a thesis judged to merit an honors designation.

Types of Jobs Accepted

Majoring in history prepares students for fulfilling careers in diverse fields. Though many of our graduates decide to pursue lives of scholarship and teaching, others go into law, public history and museum studies, public policy, journalism, publishing or business. A recent survey suggests that nearly 90% of our 2016 graduates are employed soon after graduation — a rate commensurate with that of the College of Arts and Sciences as a whole. Whatever your chosen field, the communication, writing, researching and critical thinking skills acquired as a history major will be in high demand in the modern workforce.

Jobs of Experienced Alumni

People holding degrees in history from the University of Alabama teach in schools and colleges around the country. They have served in government at all levels, from the Tuscaloosa city council to the U.S. House of Representatives, the U.S. Senate and the Alabama Supreme Court. They are museum curators and directors, newspaper and television journalists, national real-estate brokers, attorneys and business men and women with MBAs, some of whom have become CEOs of major
corporations. If you can think of a career, history can help get you there and make you a great success. Learn more about opportunities in this field at the Career Center.

History, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 hours of introductory courses:</td>
<td>6</td>
</tr>
<tr>
<td>HY 101</td>
<td>Western Civ To 1648</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civ Since 1648</td>
</tr>
<tr>
<td>HY 103</td>
<td>American Civilization to 1865</td>
</tr>
<tr>
<td>HY 104</td>
<td>Am Civ Since 1865</td>
</tr>
<tr>
<td>HY 105</td>
<td>Honors West Civ To 1648</td>
</tr>
<tr>
<td>HY 106</td>
<td>Honors West Civ Sc 1648</td>
</tr>
<tr>
<td>HY 107</td>
<td>Honors Am Civ to 1865</td>
</tr>
<tr>
<td>HY 108</td>
<td>Honors Am Civ Sc 1865</td>
</tr>
<tr>
<td>HY 111</td>
<td>Colonial Latin America</td>
</tr>
<tr>
<td>HY 112</td>
<td>Modern Latin Am Since 1808</td>
</tr>
<tr>
<td>HY 113</td>
<td>Asian Civilization to 1400</td>
</tr>
<tr>
<td>HY 114</td>
<td>Modern Asia since 1400</td>
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<tr>
<td>HY 115</td>
<td>History of Science to 1687</td>
</tr>
<tr>
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</tr>
<tr>
<td>HY 117</td>
<td>World History to 1500</td>
</tr>
<tr>
<td>HY 118</td>
<td>World History Since 1500</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select nine hours of HY electives 300 or 400 level</td>
<td>9</td>
</tr>
<tr>
<td>Select six hours of HY electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 15

Total Hours 21

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of nine hours of 300- and 400-level courses in this minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
History 200-, 300- and 400-level courses are open to all students of sophomore standing or higher.

Latin American, Caribbean, and Latino Studies, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 15 Hours of approved electives in three or more disciplines</td>
<td>15</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 15

<table>
<thead>
<tr>
<th>Ancillary Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A total of six hours of language training taken outside of the minor in one or more of the following: Spanish, Portuguese, French, any indigenous language or any Creole language having a historical or current association with Latin America or the Caribbean. Grades in the language courses will not be computed into the minor grade point average.</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approved Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 310</td>
<td>The Latinx Experience</td>
</tr>
<tr>
<td>AMS 415</td>
<td>Service Learning</td>
</tr>
<tr>
<td>AMS 460</td>
<td>Race &amp; Ethnicity in US Labor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Anthropology</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 319</td>
<td>Ancient New World Civilization</td>
</tr>
<tr>
<td>ANT 408</td>
<td>Ancient Mexican Civilization</td>
</tr>
<tr>
<td>ANT 409</td>
<td>Ancient Maya Civilization</td>
</tr>
<tr>
<td>ANT 413</td>
<td>Peoples of Latin Amer</td>
</tr>
</tbody>
</table>
### Biology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 325</td>
<td>Tropical Plant Diversity</td>
<td>4</td>
</tr>
</tbody>
</table>

### Economics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 442</td>
<td>Econ Develop Of Lat Am</td>
<td>3</td>
</tr>
</tbody>
</table>

### English

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 411</td>
<td>Adv Stdy Comptv Multi-Cutl Lit (US-Mexico Border Literature)</td>
<td>3</td>
</tr>
<tr>
<td>EN 411</td>
<td>Adv Stdy Comptv Multi-Cutl Lit (Caribbean Literature)</td>
<td>3</td>
</tr>
<tr>
<td>EN 422</td>
<td>Adv Studies Americ Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

### History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 111</td>
<td>Colonial Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HY 112</td>
<td>Modern Latin Am Since 1808</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (History of Argentina)</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (History of Modern Argentina)</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (Gender and Slavery in the Caribbean)</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (A History of the Atlantic World, 1400-1800)</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (Drugs, Booze, and Mexican Society)</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (Mexico Since 1810)</td>
<td>3</td>
</tr>
<tr>
<td>HY 400</td>
<td>Special Studies in History (History of Cuba)</td>
<td>1-6</td>
</tr>
<tr>
<td>HY 400</td>
<td>Special Studies in History (Slavery and Emancipation in Brazil)</td>
<td>1-6</td>
</tr>
<tr>
<td>HY 411</td>
<td>Comp. Slavery &amp; Emancipation</td>
<td>3</td>
</tr>
<tr>
<td>HY 429</td>
<td>Spanish Frontier in N. America</td>
<td>3</td>
</tr>
<tr>
<td>HY 474</td>
<td>Relation US Latin American</td>
<td>3</td>
</tr>
<tr>
<td>HY 475</td>
<td>Caribbean Basin 1492 - Present</td>
<td>3</td>
</tr>
</tbody>
</table>

### Modern Languages and Classics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 324</td>
<td>Commercial French</td>
<td>3</td>
</tr>
<tr>
<td>FR 470</td>
<td>Undergrad Sem In French (Francophone Louisiana)</td>
<td>3</td>
</tr>
<tr>
<td>FR 470</td>
<td>Undergrad Sem In French (Francophone Africa)</td>
<td>3</td>
</tr>
<tr>
<td>FR 480</td>
<td>Special Topics (Francophone Louisiana)</td>
<td>3</td>
</tr>
<tr>
<td>FR 480</td>
<td>Special Topics (Francophone Africa)</td>
<td>3</td>
</tr>
<tr>
<td>SP 353</td>
<td>Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SP 355</td>
<td>Spanish for Native Speakers</td>
<td>3</td>
</tr>
<tr>
<td>SP 356</td>
<td>Adv Grammar And Compos</td>
<td>3</td>
</tr>
<tr>
<td>SP 362</td>
<td>Spanish for Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>SP 366</td>
<td>Spanish-American Civ</td>
<td>3</td>
</tr>
<tr>
<td>SP 375</td>
<td>Masterpc Sp-Amer Lit I</td>
<td>3</td>
</tr>
<tr>
<td>SP 376</td>
<td>Masterpc Sp-Amer Lit II</td>
<td>3</td>
</tr>
<tr>
<td>SP 377</td>
<td>US Latino Literature</td>
<td>3</td>
</tr>
<tr>
<td>SP 389</td>
<td>Spanish Outreach</td>
<td>3</td>
</tr>
<tr>
<td>SP 483</td>
<td>Intro to Spanish Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>SP 484</td>
<td>Phonetics And Pronunciation</td>
<td>3</td>
</tr>
<tr>
<td>SP 487</td>
<td>Open Topics US Latino</td>
<td>3</td>
</tr>
<tr>
<td>SP 489</td>
<td>Open Topics Sp-Amer Lit (Spanish-American Literature)</td>
<td>3</td>
</tr>
<tr>
<td>SP 489</td>
<td>Open Topics Sp-Amer Lit (Between Myth and History: Iconography of Eva Peron in the Visual Arts and in Narrative)</td>
<td>3</td>
</tr>
<tr>
<td>SP 492</td>
<td>Spanish in the US</td>
<td>3</td>
</tr>
</tbody>
</table>

### Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of nine hours of 300- and 400-level courses in this minor must be earned on this campus.

### Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

### Marine Science Program

**MS304 Marine Geology**

Hours 4

Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

**MS306 Marine Biology**

Hours 4

Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

### Department of Mathematics

The department of mathematics offers a major in mathematics that culminates in a bachelor of science (BS) degree. The department also offers minors in mathematics and mathematical statistics, as well as mathematics education in the College of Education.

- **Major**
  - Mathematics (BS) (p. 1004)
- **Minors**
  - Mathematics (p. 1006)
  - Mathematical Statistics (p. 1003)
  - Mathematics Education (p. 1003)
MATH110 Finite Mathematics 
MA
Hours 3
This course is intended to give an overview of topics in finite mathematics with applications. This course covers mathematics of finance, logic, set theory, elementary probability and statistics. This course does not provide sufficient background for students who will need to take Precalculus Algebra or Calculus.
Prerequisite(s): UA Math Placement Test Score of 190-600 or ACT Math Subscore of 18 or old SAT Math Subscore of 440 or new SAT Math Subscore of 480 or a C- or higher in MATH 100
Mathematics

MATH112 Precalculus Algebra 
MA
Hours 3
A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions. Graphs of these functions are stressed. The course also includes work on equations, inequalities, systems of equations, the binomial theorem, and the complex and rational roots of polynomials. Applications are stressed. Grades are reported as A, B, C or NC (No Credit). Degree credit will not be granted for both MATH 112 and MATH 113.
Prerequisite(s): UA Math Placement Test Score of 310-439 or ACT Math Subscore of 24 or old SAT Math Subscore of 560 or new SAT Math Subscore of 580 or a C- or higher in MATH 100
Mathematics

MATH115 Precalc Algebra & Trig 
MA
Hours 3
Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates. Grades are reported as A, B, C, or NC (No credit). Degree credit will not be granted for both MATH 115 and (MATH 112 or MATH 113).
Prerequisite(s): UA Math Placement Test Score of 370-439 or ACT Math Subscore of 28 or old SAT Math Subscore of 630 or new SAT Math Subscore of 650
Mathematics

MATH121 Calculus & Applications 
MA
Hours 3
A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration. This course does not provide sufficient background for students who will need higher levels of Calculus. Note: This course does not satisfy the requirement for MATH 125 or 126. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): UA Math Placement Test Score of 440-600 or ACT Math Subscore of 30 or old SAT Math Subscore of 680 or new SAT Math Subscore of 710 or a C- or higher in MATH 112 or MATH 115.
Mathematics

MATH125 Calculus I 
MA
Hours 4
This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus. There is also a brief review of selected precalculus topics at the beginning of the course. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.
Prerequisite(s): MATH 113 and MATH 112; or MATH 115
Mathematics

MATH145 Honors Calculus I 
MA, UH
Hours 4
This course covers the same material as MATH 125 but in a depth appropriate for honors students. It is the first course in the three part honors calculus sequence for students majoring in mathematics, science or engineering. Topics include limits, continuity, differentiation, applications of differentiation, and integration. Applications of the derivative are covered in detail, including approximation of errors using differentials, maxima and minima problems, curve sketching, optimization problems, and Newton’s method. The course on integration includes Riemann sums, properties of definite integrals, integration by substitution and integrals involving elementary trigonometric functions.
Prerequisite(s): ACT Math Subscore of 32 or old SAT Math Subscore of 730 or new SAT Math Subscore of 760 or a B- or higher in (MATH 112 and MATH 113) or MATH 115
Mathematics, University Honors

MATH126 Calculus II 
MA
Hours 4
This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L’Hôpital’s Rule, improper integrals, parametric equations, polar coordinates, conic sections, and infinite series.
Prerequisite(s): MATH 125 or MATH 131 or MATH 145
Mathematics
MATH 146 Honors Calculus II
MA, UH

Hours 4

This course covers the same material as MATH 126 but in a depth appropriate for honors students. It is the second course in the three part honors calculus sequence for students majoring in mathematics, science or engineering. Topics include vectors and the geometry of space, L'Hospital's Rule, applications of integration, integration techniques, improper integrals, infinite series, conic sections, plane curves, parametric equations, and polar coordinates.

Prerequisite(s): A grade of B- or higher in MATH 125 or MATH 145 or a score of 4 or 5 on AP Calculus AB or a score of 4 or 5 on AP Calculus BC: AB Subscore.

Mathematics, University Honors

View All Courses

Faculty

Chair
Cruz-Uribe, David

Undergraduate Director
Gleason, Jim

Professors
Allen, Paul J.
Corson, Jon M.
Cruz-Uribe, David
Dixon, Martyn R.
Evans, Martin
Gleason, Jim
Hadji, Layachi
Halpern, David C. M. J.
Liem, Vo Thanh
Moore, Robert L.
Olín, Robert F.
Sidje, Roger
Sun, Min
Wang, James L.
Zhao, Shan

Associate Professors
Belbas, Stavros
Dai, Shibin
Moen, Kabe
Roberts, Lawrence
Trace, Bruce S.
Zhu, Wei

Assistant Professors
Ames, Brendan
Beznosova, Oleksandra

Chen, Yuhui
Fergusson, Timothy
Kwon, Hyun-Kyoung
Makowski, Martha
Rasoulzadeh, Mojdeh
Tosun, Bulent
Xu, Yangyang

Mathematical Statistics, Minor

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145 Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 126 or Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 146 Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 227 or Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 247 Honors Calculus III</td>
<td></td>
</tr>
<tr>
<td>MATH 237 Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 355 Theory Of Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451 Math Stats W/Applictn I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 21

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Mathematics Education, Minor

A minor in mathematics education is available to students pursuing the mathematics major. The mathematics education major does not lead to a teaching certification. Successful completion of the minor provides necessary foundation coursework for admission to the alternative master's degree program in the College of Education.
that leads to Alabama Class A professional educator certification in secondary education mathematics.

Enrollment in the mathematics education minor is limited and requires students to take courses in a specified sequence. In addition, students must complete requirements for the Teacher Education Program (TEP) during the second semester of the junior year. These requirements include a cumulative GPA of 2.75, at least a 2.75 GPA in the teaching field, and passing scores on all sections of the Praxis Core Academic Skills for Educators Tests (mathematics, reading, and writing). [NOTE: Individuals who earned passing scores on all three components of the previously accepted Basic Skills assessment prior to September 1, 2017, may use those scores prior to September 1, 2022.] Information about the Praxis Core Tests can be found online at https://www.ets.org/praxis/register/centers_dates.

Admission into the Minor

To be eligible for the mathematics education minor, a student must major in mathematics. Students are expected to formally declare this minor through the College of Education.

A minor in mathematics education is available to students pursuing the mathematics major. The mathematics major does not lead to a teaching certification. Successful completion of the minor provides foundation coursework necessary for admission to the alternative master’s degree program in the College of Education that leads to Alabama Class A professional educator certification in secondary education mathematics.

Enrollment in the mathematics education minor is limited and requires students to take courses in a specified sequence. In addition, students must complete requirements for the Teacher Education Program (TEP) during the second semester of the junior year. These requirements include a cumulative GPA of 2.75, at least a 2.75 GPA in the teaching field, and passing scores on all sections of the Praxis Core Academic Skills for Educators Tests (mathematics, reading, and writing). [NOTE: Individuals who earned passing scores on all three components of the previously accepted Basic Skills assessment prior to September 1, 2017, may use those scores prior to September 1, 2022.] Information about the Praxis Core Tests can be found online at https://www.ets.org/praxis/register/centers_dates.

Grade Point Average

A 2.75 grade point average in the minor is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

All required courses in the Mathematics Education Minor must be completed at UA. Professional coursework will not transfer as satisfying these minor requirements.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Mathematics, BS

Students in mathematics have a wide variety of interests. They generally have strong logical, analytical, and computational skills.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students may declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

Mathematics majors can complete a second major in computer science, electrical engineering, economics, or finance, among others. On-campus employment as a math tutor in the Mathematics Technology Learning Center or as a grader in the Department of Mathematics is available to qualified undergraduate mathematics majors. Research experiences are possible for advanced undergraduate students (http://undergradureresearch.ua.edu/). The University of Alabama also has a chapter of Pi Mu Epsilon, a national mathematics honor society. The Department of Mathematics participates in the University Scholars Program, allowing highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master’s and bachelor’s degrees. Students usually apply for admission prior to the junior or senior year. For more information about the University Scholars Program, visit graduate.ua.edu or consult the University of Alabama Graduate Catalog.

Major in Mathematics Requirements

Students earning the bachelor of science (BS) degree with a major in mathematics must complete all University, College and departmental degree requirements. These include the general education requirements, the following major
requirements, all requirements for an approved minor and other sufficient
credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125 or Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145 Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 126 or Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 146 Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 227 or Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 247 Honors Calculus III</td>
<td></td>
</tr>
<tr>
<td>MATH 237 Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 238 Appld Diff Equations I</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete one of the following sequences.

- MATH 403 & MATH 405 Adv Math Connections & Devlpn and Geometry For Teachers
- MATH 410 & MATH 411 Numerical Linear Algebra and Numerical Analysis I
- MATH 411 & MATH 412 Numerical Analysis I and Numerical Analysis II
- MATH 420 Linear Optimization Theory & MATH 421 Non-Linear Optimization Theory
- MATH 343 Appl Diff Equations II & MATH 441 Boundary Value Problems
- MATH 451 Math Stats W/Applictn I & MATH 452 Math Stats W/Applictn II
- MATH 470 Prin Modern Algebra I & MATH 471 Prin Modern Algebra II
- MATH 486 Real Analysis I & MATH 487 Intro to Real Analysis II

Electives
Select 12 additional hours of MATH electives at or above 300.  
Credit Hours Subtotal: 36

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA.  
The major in mathematics for all tracks requires the successful completion of one of the following courses outside the major:

Select one of the following:  2-4
- CS 100 CS I for Majors
- CS 104 Computer Science Principles
- ECE 285 Programming for Elec/Comp Eng
- AEM 249 Algorithm Devl Implementation
- RRS 101 RRS Freshman 1

Total Hours 38-40

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Required Minor

The mathematics major requires the completion of a minor or a second major.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Optional Major Concentrations

Students who wish to enhance their knowledge in a particular area of study within the mathematical sciences may elect to organize their coursework around the four concentrations listed below. Though not required, these concentrations allow the students to develop an area of specialization within the major and would be part of their required upper division sequence and/or electives listed in the major.

Applied Mathematics Concentration

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 355 Theory Of Probability</td>
</tr>
<tr>
<td>MATH 485 Intro Complex Variables</td>
</tr>
<tr>
<td>Complete one of the following sequences:</td>
</tr>
<tr>
<td>MATH 343 Appl Diff Equations II &amp; MATH 441 Boundary Value Problems</td>
</tr>
<tr>
<td>MATH 410 Numerical Linear Algebra &amp; MATH 411 Numerical Analysis I</td>
</tr>
<tr>
<td>MATH 411 Numerical Analysis I &amp; MATH 412 Numerical Analysis II</td>
</tr>
<tr>
<td>MATH 420 Linear Optimization Theory &amp; MATH 421 Non-Linear Optimization Theory</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

Pure Mathematics Concentration

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 470 Prin Modern Algebra I</td>
</tr>
<tr>
<td>MATH 486 Real Analysis I</td>
</tr>
<tr>
<td>Choose one from the following:</td>
</tr>
<tr>
<td>MATH 460 Intro Differential Geom</td>
</tr>
<tr>
<td>MATH 465 Intro General Topology</td>
</tr>
<tr>
<td>Choose one from the following:</td>
</tr>
<tr>
<td>MATH 371 Advanced Linear Algebra</td>
</tr>
<tr>
<td>MATH 471 Prin Modern Algebra II</td>
</tr>
<tr>
<td>MATH 487 Intro to Real Analysis II</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

Mathematics Education Concentration

This concentration is open to all students and should be followed by those planning to enter the teaching profession in the future. Please note that this concentration does not lead to teacher certification. Students interested in earning teacher certification must be admitted through the College of Education. For more information, visit here (p. 1105).

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 355 Theory Of Probability</td>
</tr>
</tbody>
</table>
MATH 403  Adv Math Connections & Devlpnm  3
MATH 404  Topics Math Secondary Teachers  1
MATH 405  Geometry For Teachers  3
MATH 409  Advanced Data Analysis  3

Total Hours  13

Statistics and Optimization Concentration

Choose four from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 420</td>
<td>Linear Optimization Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 421</td>
<td>Non-Linear Optimization Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 452</td>
<td>Math Stats W/Applictn II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 457</td>
<td>Stochastic Processes I</td>
<td>3</td>
</tr>
<tr>
<td>ST 452</td>
<td>Applied Regression Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours  12

Industrial careers (computer programming, operation research, finance, insurance, actuary, data mining, marketing and technical services), academic careers (graduate and postgraduate work in mathematics, engineering, finance, economics), professional schools (medical school, law school), faculty positions in Grades 6-12 and post-secondary, and government positions (researcher, data analyst, cryptologist, statistician).

Types of Jobs Accepted

Computer companies, finance, insurance, actuary, credit card companies, operation research analyst, academic careers (graduate and postgraduate work), professional school (medical, law), government research and development.

Jobs of Experienced Alumni

Alumni have worked in academic careers, industries (computer, engineering, finance, insurance, and actuary), law firms, medical services, the National Security Agency, and government.

Learn more about opportunities in this field at the Career Center

Mathematics, Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145</td>
<td>Honors Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 126</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 146</td>
<td>Honors Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 238</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 15

Electives

Select six hours of MATH electives 300 level and above  6

Total Hours  21

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of Modern Languages and Classics

The department of modern languages and classics offers two majors leading to the bachelor of arts (BA) degree: one in Spanish and one in foreign languages and literature. The major in foreign languages and literature offers six tracks: classical civilization, French, German, Italian, Latin and Greek. Also offered are minors in Chinese, French, German, Greek, Italian, Japanese, Latin, Russian and Spanish. Extensive coursework is offered in Arabic. The department of modern languages and classics also houses the Critical Languages Center. Students pursuing majors in a language are strongly encouraged to take advantage of study abroad opportunities.

- Majors
  - Foreign Languages and Literature (BA) (p. 1008)
  - Spanish (BA) (p. 1013)

- Minors
  - Chinese (p. 1007)
  - French (p. 1011)
  - German (p. 1011)
  - Greek (p. 1012)
  - Italian (p. 1012)
  - Japanese (p. 1012)
  - Latin (p. 1013)
  - Russian (p. 1013)
  - Spanish (p. 1014)

Critical Languages Program

Through the critical languages program, the College of Arts and Sciences offers a variety of less-commonly-taught languages (LCTL) not available at many other institutions in the USA. These languages are offered through our membership in the National Association of Self-Instructional Language Programs (NASILP). Students can take these courses to obtain practical communicative ability of the languages, or for personal interests. Some of the languages currently offered include American Sign...
Language, Farsi (Persian), Hebrew, Hindi, Indonesian, Korean, Nahuatl, Norwegian, Portuguese (Brazilian), Swahili, Thai, Turkish and Vietnamese (subject to availability of native/near native speakers and number of students interested in).

The unique directed-self-study system consists of each student’s self study using assigned textbook and visual/audio materials (CDs, DVDs or computer sound files) and required class session with a “language trainer” who is a native/near native/ (or equivalent level) speaker of the target language, to develop his or her communicative ability. The student’s language ability is evaluated at the end of the semester by a qualified professional.

During the sessions, students will actively participate using the target language. English use will be kept to a minimum in class. Language trainers will provide some measure of assessment through the semester by use of the student performance sheet reports sent to the director of the CLC and the final examiner.

[object Object]  
ARB101 Elementary Arabic  
FL  
Hours 4  
Students will learn the spoken and written language of Modern Standard Arabic. This course is intended for students with NO PRIOR KNOWLEDGE of Arabic. Native speakers or near native speakers of the language are NOT allowed to enroll. Any students with background knowledge of this language must see the program director BEFORE enrolling.

Foreign Language  
CHI101 Elementary Chinese  
FL, HU  
Hours 4  
Contemporary Chinese Language (Mandarin): speaking, listening, reading and writing of simplified Chinese characters. The class meets five hours per week with an instructor. This course is intended for students with NO PRIOR KNOWLEDGE of Chinese. Native speakers or near native speakers of the language are NOT allowed to enroll. Any students with background knowledge of this language must see the program director BEFORE enrolling.

Foreign Language, Humanities  
View All Courses  
Faculty  
Chair and Associate Professor  
Lightfoot, Douglas  
Professors  
Carvalho, Susan  
Corbalán, Ana M.  
Fox, Thomas C.  
Picone, Michael D.  
Summers, Kirk  
Associate Professors  
Cipria, Alicia B.  
Drewelow, Isabelle  
Drozd, Andrew M.  
Edmunds, Bruce  
Janiga-Perkins, Constance G.  
Lazda-Cazers, Rasma  
Mayer, Carmen  
Moody, Sarah  
O’Rourke, Erin  
Robin, Jean Luc  
Rodeño, Ignacio F.  
Summers, Tatiana  
Worden, William  
Assistant Professors  
Elnaili, Safa  
Feminella, Matthew  
Goethals, Jessica  
Granja, Xabier  
Koronkiewicz, Bryan  
Monette, Marie-Eve  
Montalbano, Alessandra  
Range, Regina  
Romanelli, Claudia  
Shannon, Kelly  
Chinese, Minor  
200 B.B. Comer Hall  
Admission into the Minor  
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHI 201 Intermediate Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHI 202 Intermediate Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHI 301 Third-year Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHI 302 Third-year Chinese</td>
<td>3</td>
</tr>
<tr>
<td>Select six hours of the following, and/or apply Chinese-related coursework with advisor approval:</td>
<td>6</td>
</tr>
<tr>
<td>CHI 350 Traditional Chinese Lit Trans</td>
<td></td>
</tr>
<tr>
<td>CHI 351 Modern Chinese Lit Trans</td>
<td></td>
</tr>
<tr>
<td>CHI 401 Advanced Chinese I</td>
<td></td>
</tr>
<tr>
<td>CHI 402 Advanced Chinese II</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 18

Ancillary Courses  
Grades in ancillary courses are not computed into the minor GPA. The minor in Chinese requires the successful completion of the following courses:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHI 101 Elementary Chinese</td>
</tr>
<tr>
<td>CHI 102 Elementary Chinese</td>
</tr>
</tbody>
</table>
This major requires the completion of a minor.

Required Minor
This major requires the completion of a minor.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Foreign Languages and Literature, BA
Students who choose one of the six tracks of the foreign languages and literature major have options in Classics, French, German, Greek, Italian, and Latin.

200 B.B. Comer Hall

Admission into the Major
See course descriptions for information concerning appropriate placement in French, German, and Latin. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities
The foreign languages and literature concentrations offer numerous opportunities for students to learn about the modern and ancient world. Students may participate in various club activities, become initiated into national honor societies, and take advantage of a variety of study-abroad programs. Students with foreign language proficiency have more opportunities open to them than students without that proficiency.

Students earning the bachelor of arts (BA) degree with a major in foreign languages and literature must complete all University, College and major requirements. These include the general education requirement, all major and track requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
For all tracks, a minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Additional Major Requirements
If students test out of any of the courses required for the major, this does not reduce the total number of credit hours required for the major. Students must meet with an adviser in the major department for academic planning and to be cleared for registration each semester.

Prerequisites
In addition to the stated prerequisites, all 400-level German courses have as a prerequisite 20 hours of coursework in German, or permission of the instructor.

Credit Options
With the exception of heritage language or bilingual individuals, students placed in intermediate level courses or higher can earn placement credit.

French
Except for heritage language or bilingual individuals, students placed in FR 201 Intermediate French or higher and who earn a grade of C- or higher in the course are granted additional credit upon written petition:

<table>
<thead>
<tr>
<th>Placement</th>
<th>Credit received with grade of</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 201</td>
<td>&quot;Pass&quot; (C- or better)</td>
</tr>
<tr>
<td>FR 202</td>
<td>FR 102 and FR 201 (7 hours)</td>
</tr>
<tr>
<td>FR 300 level</td>
<td>FR 102, FR 201, FR 202 (10 hours)</td>
</tr>
</tbody>
</table>

German
Except for heritage language or bilingual individuals, students placed in GN 201 Intermediate German I or higher and who earn a grade of C- or higher in the course can earn additional credit upon written petition:

<table>
<thead>
<tr>
<th>Placement</th>
<th>Credit received with grade of</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 201</td>
<td>&quot;Pass&quot; (C- or better)</td>
</tr>
<tr>
<td>GN 202</td>
<td>GN 103 and GN 201 (7 hours)</td>
</tr>
<tr>
<td>GN 300 or 400 level</td>
<td>GN 103, GN 201, GN 202 (10 hours)</td>
</tr>
</tbody>
</table>

Latin
The course level at which students begin their study of Latin is determined by several factors. These factors include the following: the number of high-school units completed, language placement examination scores or faculty evaluation. Students placed in LA 201 Intermediate Latin Read I or higher and who earn a grade of B or higher in the course are granted additional credit upon written petition.

<table>
<thead>
<tr>
<th>Placement</th>
<th>Credit received with grade of</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 201</td>
<td>&quot;Pass&quot; (C- or better)</td>
</tr>
<tr>
<td>LA 202</td>
<td>LA 102 and LA 201 (6 hours)</td>
</tr>
<tr>
<td>LA 300 or 400 level</td>
<td>LA 102, LA 201, LA 202 (9 hours)</td>
</tr>
</tbody>
</table>

Tracks
The major in foreign languages and literature requires the successful completion of specifically required semester hours in one of the following six tracks:

Classic Civilization Track

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following language sequences:</td>
<td>12</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>LA 101 &amp; LA 102</td>
<td>Elementary Latin I and Elementary Latin II</td>
</tr>
<tr>
<td>LA 201 &amp; LA 202</td>
<td>Intermed Latin Read I and Intermed Latin Read II</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>GR 101 &amp; GR 102</td>
<td>Beginning Greek I and Beginning Greek II</td>
</tr>
<tr>
<td>GR 201 &amp; GR 202</td>
<td>Intermediate Greek I and Intermediate Greek II</td>
</tr>
</tbody>
</table>

Select from the following: 21

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL 222</td>
<td>Greek Roman Mythology</td>
</tr>
<tr>
<td>CL 323</td>
<td>Alexander the Great, Then &amp; Now</td>
</tr>
<tr>
<td>CL 333</td>
<td>Greek Civilization</td>
</tr>
<tr>
<td>CL 350</td>
<td>Roman Religion</td>
</tr>
<tr>
<td>CL 385</td>
<td>History Of Greece</td>
</tr>
<tr>
<td>CL 365</td>
<td>Greece &amp; Rome in Film</td>
</tr>
<tr>
<td>CL 380</td>
<td>Special Topics</td>
</tr>
<tr>
<td>CL 386</td>
<td>History Of Rome</td>
</tr>
<tr>
<td>ARH 351</td>
<td>Ancient Art</td>
</tr>
<tr>
<td>HY 235</td>
<td>Christ Church To 1500</td>
</tr>
<tr>
<td>PHL 211</td>
<td>Ancient Philosophy</td>
</tr>
<tr>
<td>UH 300</td>
<td>Honors Spec Topics Sem (Women from Antiquity through Today)</td>
</tr>
</tbody>
</table>

Total Hours Greek or Latin language electives (100 level or above) 33

Students must complete a foreign language sequence from 101-202 in either Latin or Greek.

**German Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 101 &amp; GN 102</td>
<td>Elementary German I and Elementary German II</td>
<td>2</td>
</tr>
<tr>
<td>GN 103</td>
<td>Accelerated Elementary German</td>
<td>2</td>
</tr>
<tr>
<td>GN 201</td>
<td>Intermediate German I</td>
<td>2</td>
</tr>
<tr>
<td>GN 202</td>
<td>Intermediate German II</td>
<td>2</td>
</tr>
<tr>
<td>GN 361 or GN 362</td>
<td>Interm Convers Comp I or Interm Convers Comp II</td>
<td>2</td>
</tr>
<tr>
<td>GN 371</td>
<td>Gn Cult Civil Thru 1832</td>
<td>2</td>
</tr>
<tr>
<td>GN 372</td>
<td>Germn Cult Civ 1832-Present</td>
<td>2</td>
</tr>
<tr>
<td>GN 403 or GN 404</td>
<td>Undergraduate Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 26

Select three hours of GN electives 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 250</td>
<td>Germanic Mythology</td>
<td>2</td>
</tr>
<tr>
<td>GN 260</td>
<td>Holocaust In Film &amp; Lit</td>
<td>2</td>
</tr>
<tr>
<td>GN 264</td>
<td>German Literature Translatln I</td>
<td>2</td>
</tr>
<tr>
<td>GN 265</td>
<td>German Lit In Translatln II</td>
<td>2</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 27

**Electives**

Select six hours of FR electives 200 level and above 6

Credit Hours Subtotal: 6

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The track in French requires the successful completion of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 101 &amp; FR 102</td>
<td>Elementary French I and Elementary French II</td>
<td>2</td>
</tr>
</tbody>
</table>

1 One honors section is available for this course. Consult the online schedule of classes or contact the Department of Modern Languages and Classics.

2 The UA in France study abroad equivalent for FR 321 Voices In French is FR 328 French Conversation-Abroad.

3 The UA in France study abroad equivalent for FR 322 Advanced French Grammar is FR 329 Adv Fr Grammar-Abroad.

4 The UA in France study abroad equivalent for FR 323 Text, Image, And Word is FR 328 French Conversation-Abroad.

5 With approval, three hours of topic appropriate FR 470 Undergrad Sem In French (Literature) or FR 480 Special Topics (in French Literature) may substitute for, either FR 341 Survey Fr Literature I or FR 351 Survey Fr Literature II, but not both.

6 The UA in France study abroad equivalent for FR 421 Pronunciation & Phonetics is FR 484 Adv Converstn Phonetics.

7 With approval, three hours of topic appropriate FR 470 Undergrad Sem In French (Civilization or Linguistics) or FR 480 Special Topics (Civilization or Linguistics) may substitute for either FR 331 French Civilization or FR 431 Contemp French Civiliztn, but not both.

8 The UA in France study abroad equivalent for FR 331 French Civilization is FR 339 French Civilizatn-Abroad.

9 Or proficiency or placement.

The track in German requires the successful completion of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 101 &amp; GN 102</td>
<td>Elementary German I and Elementary German II</td>
<td>2</td>
</tr>
<tr>
<td>GN 103</td>
<td>Accelerated Elementary German</td>
<td>2</td>
</tr>
<tr>
<td>GN 201</td>
<td>Intermediate German I</td>
<td>2</td>
</tr>
<tr>
<td>GN 202</td>
<td>Intermediate German II</td>
<td>2</td>
</tr>
<tr>
<td>GN 361 or GN 362</td>
<td>Interm Convers Comp I or Interm Convers Comp II</td>
<td>2</td>
</tr>
<tr>
<td>GN 371</td>
<td>Gn Cult Civil Thru 1832</td>
<td>2</td>
</tr>
<tr>
<td>GN 372</td>
<td>Germn Cult Civ 1832-Present</td>
<td>2</td>
</tr>
<tr>
<td>GN 403 or GN 404</td>
<td>Undergraduate Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 26

Select three hours of GN electives 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 250</td>
<td>Germanic Mythology</td>
</tr>
<tr>
<td>GN 260</td>
<td>Holocaust In Film &amp; Lit</td>
</tr>
<tr>
<td>GN 264</td>
<td>German Literature Translatln I</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Or other German literature course with departmental approval

Total Hours 32
Students taking GN 103 Accelerated Elementary German are required to take additional GN coursework to satisfy the 32 hour requirement for the German major.

A total of four hours in GN 205 Living German House I and GN 206 Living German House II may be applied to the 32 required hours in the major.

Greek Track

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR 101</td>
<td>3</td>
</tr>
<tr>
<td>GR 102</td>
<td>3</td>
</tr>
<tr>
<td>GR 201</td>
<td>3</td>
</tr>
<tr>
<td>GR 202</td>
<td>3</td>
</tr>
<tr>
<td>GR 301</td>
<td>3</td>
</tr>
<tr>
<td>GR 302</td>
<td>3</td>
</tr>
<tr>
<td>GR 490</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 21

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL 323</td>
<td>3</td>
</tr>
<tr>
<td>CL 385</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Select 9 hours from among the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 351</td>
<td>3</td>
</tr>
<tr>
<td>CL 222</td>
<td>3</td>
</tr>
<tr>
<td>CL 323</td>
<td>3</td>
</tr>
<tr>
<td>CL 350</td>
<td>3</td>
</tr>
<tr>
<td>CL 386</td>
<td>3</td>
</tr>
<tr>
<td>CL 380</td>
<td>3</td>
</tr>
<tr>
<td>CL 365</td>
<td>3</td>
</tr>
<tr>
<td>HY 235</td>
<td>3</td>
</tr>
<tr>
<td>CL 333</td>
<td>3</td>
</tr>
<tr>
<td>PHL 211</td>
<td>3</td>
</tr>
<tr>
<td>UH 300</td>
<td>3</td>
</tr>
</tbody>
</table>

Latin Track

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 101</td>
<td>3</td>
</tr>
<tr>
<td>LA 102</td>
<td>3</td>
</tr>
<tr>
<td>LA 201</td>
<td>3</td>
</tr>
<tr>
<td>LA 202</td>
<td>3</td>
</tr>
<tr>
<td>LA 301</td>
<td>3</td>
</tr>
<tr>
<td>LA 302</td>
<td>3</td>
</tr>
<tr>
<td>CL 386</td>
<td>3</td>
</tr>
<tr>
<td>LA 490</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 24

Select 9 hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 351</td>
<td>3</td>
</tr>
<tr>
<td>CL 222</td>
<td>3</td>
</tr>
<tr>
<td>CL 323</td>
<td>3</td>
</tr>
<tr>
<td>CL 333</td>
<td>3</td>
</tr>
<tr>
<td>CL 350</td>
<td>3</td>
</tr>
<tr>
<td>CL 365</td>
<td>3</td>
</tr>
<tr>
<td>CL 380</td>
<td>3</td>
</tr>
<tr>
<td>CL 385</td>
<td>3</td>
</tr>
<tr>
<td>HY 235</td>
<td>3</td>
</tr>
<tr>
<td>PHL 211</td>
<td>3</td>
</tr>
<tr>
<td>UH 300</td>
<td>3</td>
</tr>
</tbody>
</table>

Greek language electives on the 100 level or above
Latin language electives on the 400 level or above

Credit Hours Subtotal: 9

Total Hours 32

Italian Track

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 101</td>
<td>4</td>
</tr>
<tr>
<td>IT 102</td>
<td>4</td>
</tr>
<tr>
<td>IT 201</td>
<td>3</td>
</tr>
<tr>
<td>IT 202</td>
<td>3</td>
</tr>
<tr>
<td>IT 353</td>
<td>3</td>
</tr>
<tr>
<td>IT 364</td>
<td>3</td>
</tr>
<tr>
<td>IT 380</td>
<td>3</td>
</tr>
<tr>
<td>IT 380</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 26

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 323</td>
<td>3</td>
</tr>
<tr>
<td>IT 356</td>
<td>3</td>
</tr>
<tr>
<td>IT 361</td>
<td>3</td>
</tr>
<tr>
<td>IT 480</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Other IT electives permissible, and Italian related coursework may apply with advisor approval.

Total Hours 32

Types of Jobs Accepted

Many of our graduates in foreign languages and classics go on to professional schools or advanced degrees in their own areas at well known universities around the country and abroad. Since 1995, classics has had a 100% acceptance rate for those who have applied for medical school. We have sent students to prestigious law schools. Some
Students have completed advanced study in Library Science or English/ TESOL, while others have entered various areas in the private and public sectors.

**Jobs of Experienced Alumni**

Foreign languages and literature graduates have jobs in a variety of areas in the private and public sectors, including all levels of education and educational administration, in print and other areas of media, law, diplomacy, auto industry, high tech fields and in many other areas. Competitive employers acknowledge the advantages of hiring those who can understand and communicate with a greater number of people.

Classics graduates have gone to seminary and then on into the ministry. Several have gone on to MBA programs and graduated at the top of their class and now work in major businesses. Others have continued in classics and received a PhD and now teach in colleges here and in England. One student works for the Navy in Chicago, following a passion of hers, mapping and geography. The possibilities are endless!

Learn more about opportunities in this field at the Career Center

**French, Minor**

200 B.B. Comer Hall

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 201</td>
<td>3</td>
</tr>
<tr>
<td>FR 202</td>
<td>3</td>
</tr>
<tr>
<td>FR 321 or</td>
<td>3</td>
</tr>
<tr>
<td>FR 323</td>
<td>3</td>
</tr>
<tr>
<td>FR 421</td>
<td>3</td>
</tr>
<tr>
<td>FR electives 300 or 400 level</td>
<td>6</td>
</tr>
</tbody>
</table>

**Ancillary Courses**

Grades in ancillary courses are not computed into the minor GPA. The French minor requires the successful completion of the following courses:

<table>
<thead>
<tr>
<th>FR 101</th>
<th>Elementary French I &amp; FR 102 and Elementary French II</th>
</tr>
</thead>
</table>

Credit Hours Subtotal: 18

1 Students taking GN 103 Accelerated Elementary German are required to take additional GN elective coursework to satisfy the 22 hour requirement for the German minor.

Additional Minor Requirements

If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**German, Minor**

200 B.B. Comer Hall

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 101</td>
<td>8</td>
</tr>
<tr>
<td>GN 102</td>
<td></td>
</tr>
<tr>
<td>GN 103</td>
<td>3</td>
</tr>
<tr>
<td>GN 201</td>
<td>3</td>
</tr>
<tr>
<td>GN 202</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 14

Electives

Select six hours of GN electives 300 or 400 level
Select two hours of GN electives

Credit Hours Subtotal: 8

Total Hours 22

1 Students taking GN 103 Accelerated Elementary German are required to take additional GN elective coursework to satisfy the 22 hour requirement for the German minor.

A total of 4 hours in GN 205 Living German House I and GN 206 Living German House II may be applied to the 22 required hours in the minor.

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

**Ancillary Courses**

This minor does not require ancillary courses.

**Additional Minor Requirements**

If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and...
to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Greek, Minor
200 B.B. Comer Hall

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Hours
Minor Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR 101</td>
<td>Beginning Greek I</td>
<td>3</td>
</tr>
<tr>
<td>GR 102</td>
<td>Beginning Greek II</td>
<td>3</td>
</tr>
<tr>
<td>GR 201</td>
<td>Intermediate Greek I</td>
<td>3</td>
</tr>
<tr>
<td>GR 202</td>
<td>Intermediate Greek II</td>
<td>3</td>
</tr>
<tr>
<td>GR 301</td>
<td>Advanced Greek I</td>
<td>3</td>
</tr>
<tr>
<td>CL 385</td>
<td>History Of Greece</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Italian, Minor
200 B.B. Comer Hall

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Hours
Minor Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 101</td>
<td>Introductory Italian I</td>
<td>4</td>
</tr>
<tr>
<td>IT 102</td>
<td>Introductory Italian II</td>
<td>4</td>
</tr>
<tr>
<td>IT 201</td>
<td>Intermediate Italian I</td>
<td>3</td>
</tr>
<tr>
<td>IT 202</td>
<td>Intermediate Italian I</td>
<td>3</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Electives
Select six hours of IT electives 300 or 400 level. Other 300-400 IT electives also applicable.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 323</td>
<td>Introduction to Italian Cinema</td>
</tr>
<tr>
<td>IT 353</td>
<td>Italian Conversation</td>
</tr>
<tr>
<td>IT 356</td>
<td>Adv Grammar Composition</td>
</tr>
<tr>
<td>IT 361</td>
<td>Intro Romance Linguistic</td>
</tr>
<tr>
<td>IT 364</td>
<td>IT Lit: Medieval to Modern</td>
</tr>
<tr>
<td>IT 380</td>
<td>Special Topics</td>
</tr>
<tr>
<td>IT 480</td>
<td>Undergraduate Seminar</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
</tr>
</tbody>
</table>

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus or in the UA summer program in Italy. Italian courses taken in exchange programs at a partner university in Italy may be used to satisfy the residency requirement.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Japanese, Minor
200 B.B. Comer Hall

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Hours
Minor Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA 201</td>
<td>Intermediate Japanese I</td>
<td>3</td>
</tr>
<tr>
<td>JA 202</td>
<td>Intermediate Japanese II</td>
<td>3</td>
</tr>
<tr>
<td>JA 301</td>
<td>Third Year Japanese I</td>
<td>3</td>
</tr>
<tr>
<td>JA 302</td>
<td>Third Year Japanese II</td>
<td>3</td>
</tr>
<tr>
<td>JA 410</td>
<td>4 Yr Read/Write Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JA 411</td>
<td>4th Year Spoken Japanese</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>JA 356</td>
<td>Traditional Japanese Lit Trans</td>
<td></td>
</tr>
<tr>
<td>JA 357</td>
<td>Japanese Literature &amp; Film</td>
<td></td>
</tr>
<tr>
<td>JA 390</td>
<td>Topics Japanese Studies</td>
<td></td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Ancillary Courses
Grades in ancillary courses are not computed into the minor GPA. The minor in Japanese requires the successful completion of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA 101</td>
<td>Elementary Japanese I</td>
<td>8</td>
</tr>
<tr>
<td>&amp; JA 102</td>
<td>and Elementary Japanese II</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 8**

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

**Additional Minor Requirements**

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

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**Latin, Minor**

200 B.B. Comer Hall

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Minor Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 101</td>
<td>Elementary Latin I</td>
<td>3</td>
</tr>
<tr>
<td>LA 102</td>
<td>Elementary Latin II</td>
<td>3</td>
</tr>
<tr>
<td>LA 201</td>
<td>Intermed Latin Read I</td>
<td></td>
</tr>
<tr>
<td>LA 202</td>
<td>Intermed Latin Read II</td>
<td></td>
</tr>
<tr>
<td>LA 301</td>
<td>Survey Lit Roman Republ</td>
<td>3</td>
</tr>
<tr>
<td>CL 386</td>
<td>History Of Rome</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 18**

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus or in UA-sponsored programs of study abroad.

**Ancillary Courses**

This minor does not require ancillary courses.

**Additional Minor Requirements**

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

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**Spanish, BA**

The curriculum provides students with an attractive mixture of classes with Latin-American, Spanish Peninsular, U.S. Latino, and Transatlantic grounding. Studies will include the renowned works of Cervantes, including Don Quixote.

200 B.B. Comer Hall

**Admission into the Major**

Course placement information appears in the Spanish course description section of the catalog. Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major
by completing the Change of Major/Minor Application online under the Student tab of myBama. Additionally, students must declare a major with the undergraduate advisor in the department.

**Special Opportunities**

The Spanish program at The University of Alabama offers a quality education and a range of learning opportunities. These include the Alabama in Spain summer abroad program, the Spanish Outreach program in the Tuscaloosa/Northport area and UA's semester abroad program in Cuba (offered by the College of Arts and Sciences). The Department of Modern Languages and Classics also offers honors courses in Spanish.

Students earning the bachelor of arts (BA) degree with a major in Spanish must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

### Major Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 353</td>
<td>Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SP 356</td>
<td>Adv Grammar And Compos</td>
<td>3</td>
</tr>
<tr>
<td>SP 364 or</td>
<td>Spanish Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SP 366</td>
<td>Spanish-American Civ</td>
<td></td>
</tr>
<tr>
<td>SP 371</td>
<td>Survey Of Spanish Lit</td>
<td></td>
</tr>
<tr>
<td>SP 372</td>
<td>Survey Of Spanish Lit</td>
<td></td>
</tr>
<tr>
<td>SP 375</td>
<td>Masterpc Sp-Amer Lit I</td>
<td></td>
</tr>
<tr>
<td>SP 376</td>
<td>Masterpc Sp-Amer Lit II</td>
<td></td>
</tr>
<tr>
<td>SP 377</td>
<td>US Latino Literature</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 371</td>
<td>Survey Of Spanish Lit</td>
<td>3</td>
</tr>
<tr>
<td>SP 372</td>
<td>Survey Of Spanish Lit</td>
<td>3</td>
</tr>
<tr>
<td>SP 375</td>
<td>Masterpc Sp-Amer Lit I</td>
<td>3</td>
</tr>
<tr>
<td>SP 376</td>
<td>Masterpc Sp-Amer Lit II</td>
<td>3</td>
</tr>
<tr>
<td>SP 377</td>
<td>US Latino Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 15

### Electives

Select six hours of SP electives 300 or 400 level 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 491</td>
<td>Cervantes</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three hours of SP elective 400 level

**Credit Hours Subtotal:** 12

### Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in Spanish requires the successful completion of the following courses:

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 101</td>
<td>Introductory Spanish I</td>
<td>4-8</td>
</tr>
<tr>
<td>&amp; SP 102</td>
<td>and Introductory Spanish II</td>
<td></td>
</tr>
<tr>
<td>SP 103</td>
<td>Intensive Review Intro Spanish</td>
<td></td>
</tr>
<tr>
<td>SP 201</td>
<td>Intermediate Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SP 202</td>
<td>Intermediate Spanish</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 10-14

**Total Hours:** 37-41

---

1 SP 361 Intro Romance Linguistic is taught in English and does not count towards Spanish major or minor.

---

### Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus. Courses taken in the UA summer program in Spain may be used to satisfy the residency requirement.

### Required Minor

This major requires the completion of a minor.

### Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Native and Heritage speakers. These students are exntempted from SP 353 Spanish Conversation and must complete an additional course at the 300 level, chosen in consultation with the adviser in the department in order to complete the 27 semester hours.

### Credit Option

Except for heritage language or bilingual individuals, students placed in SP 201 or higher and who earn a grade of C- or higher in the course are granted additional credit upon written petition:

<table>
<thead>
<tr>
<th>Placement</th>
<th>Credit received with grade of &quot;Pass&quot; (C- or better)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 201</td>
<td>SP 103 (4 hours)</td>
</tr>
<tr>
<td>SP 202</td>
<td>SP 103 and SP 201 (7 hours)</td>
</tr>
<tr>
<td>SP 300 or 400 level</td>
<td>SP 103, SP 201, SP 202 (10 hours)</td>
</tr>
</tbody>
</table>

### Types of Jobs Accepted

- sales representative with foreign firm, Spanish teacher at the high school level, Teach for America, international banker, interpreter, translator, and more

### Jobs of Experienced Alumni

- university professor, high school teacher, junior or state college teacher, interpreter, translator, international banker, international sales representative, international advertising, media consultant, and more

Learn more about opportunities in this field at the Career Center

### Spanish, Minor

200 B.B. Comer Hall  
spanishadvising@ua.edu (spanish@as.ua.edu)
Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama. Students are strongly advised to meet with the department advisor each semester to plan their course of study.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 353 Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SP 356 Adv Grammar And Compos</td>
<td>3</td>
</tr>
<tr>
<td>SP 364 or Spanish Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SP 366 Spanish-American Civ</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select six hours of SP electives 300 or 400 level</td>
<td>6</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Ancillary Courses

Grades in ancillary courses are not computed into the minor GPA. The minor in Spanish requires the successful completion of the following courses:

Select one of the following: 4-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 101</td>
<td>Introductory Spanish I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; SP 102</td>
<td>and Introductory Spanish II</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>SP 103</td>
<td>Intensive Review Intro Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SP 201</td>
<td>Intermediate Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SP 202</td>
<td>Intermediate Spanish</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 10-14

Total Hours 25-29

1 SP 361 Intro Romance Linguistic is taught in English and does not count toward the Spanish major or minor.

2 Or proficiency or placement. Native and Heritage speakers. These students are exempted from SP 353 Spanish Conversation and must complete an additional course at the 300 level, chosen in consultation with the adviser in the department in order to complete the 15 semester hours.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus. Courses taken in the UA summer program in Spain may be used to satisfy the residency requirement.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Credit Option

Except for heritage language or bilingual individuals, students placed in SP 201 Intermediate Spanish or higher and who earn a grade of C- or higher in the course are granted additional credit upon written petition:

<table>
<thead>
<tr>
<th>Placement</th>
<th>Credit received with grade of “Pass” (C- or better)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 201</td>
<td>SP 103 (4 hours)</td>
</tr>
<tr>
<td>SP 202</td>
<td>SP 103 and SP 201 (7 hours)</td>
</tr>
<tr>
<td>SP 300 or 400 level</td>
<td>SP 103, SP 201, SP 202 (10 hours)</td>
</tr>
</tbody>
</table>

School of Music

Students wishing to study at the School of Music must make a separate application for admission to the School, which is available online at music.ua.edu/apply-audition/

After successfully auditioning and gaining formal acceptance to the School of Music, students may enroll in one of the following degree programs: the Bachelor of Music (BM), which is the professional degree, or the Bachelor of Arts (BA) with a major in music. Students can also earn a BA with an arts administration concentration. The University of Alabama also offers a program in music education. For more information, see the College of Education section of this catalog.

- Majors
  - Music (BA) (p. 1030)
  - Music Performance (BM) (p. 1018)
  - Music Composition (BM) (p. 1016)
  - Music Theory (BM) (p. 1024)
  - Music Therapy (BM) (p. 1025)
  - Music with a concentration in Arts Administration (BA) (p. 1028)

- Minor
  - Music (p. 1031)

MUS115 Theory I

Hours 4

Study of the foundations of musical materials through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the fall semester.

MUS117 Theory II

Hours 4

Study of the melodic and harmonic materials of the 18th and early 19th centuries through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the spring semester.

Prerequisite(s): MUS 115 with the grade of C- or better.

View All Courses

Faculty

Chair
Snead, Charles

Professors
First, Craig
Fleming, Susan
Freese, Faythe
Gille, Tanya L.
McCreery, Carlton
Music Composition, BM

Students entering this program should have a strong background in music. This should include performance experience with a specific instrument or voice type.

Admission into the Major

In order to declare a major in music composition, students must submit sample compositions to be reviewed by the composition faculty. To begin the application process, students must fill out a separate application to the School of Music, which is available online at http://music.ua.edu/apply-audition/. Upon successful review of the submitted materials, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115 Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 117 Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 215 Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 217 Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 219 Composition I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 220 Composition II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 250 Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUS 251 Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 252 Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 303 16th Cent Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 304 18th Cent Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 307 Form And Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 319 Composition III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 320 Composition IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323 Music History III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 325 Orchestration I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 351 Fund Of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 403 or Advanced Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 426 Analysis 20th Cent Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 418 Schenkerian Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 419 Composition V</td>
<td>3</td>
</tr>
<tr>
<td>MUS 420 Composition VI</td>
<td>3</td>
</tr>
<tr>
<td>MUS 492 or Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 494 Band Conducting</td>
<td></td>
</tr>
<tr>
<td>MUS electives 300 or 400 level</td>
<td>3</td>
</tr>
<tr>
<td>MUA 010 Music Convocation (five semesters)</td>
<td>0</td>
</tr>
</tbody>
</table>

Select eight hours of the following: 8
The University of Alabama 2018-2019

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 121</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>&amp; MUA 122</td>
<td>Class Piano II</td>
<td>1</td>
</tr>
<tr>
<td>&amp; MUA 123</td>
<td>Class Piano III</td>
<td>1</td>
</tr>
<tr>
<td>&amp; MUA 124</td>
<td>Class Piano IV</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUA 299</td>
<td>Piano Proficiency</td>
<td>1</td>
</tr>
<tr>
<td>MUA 231</td>
<td>Piano (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA applied</td>
<td>(four semesters)</td>
<td>4</td>
</tr>
<tr>
<td>MUA ensembles</td>
<td>(four semesters)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in music composition requires the successful completion of the following courses outside the major:

Select one of the following: 4-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 101</td>
<td>Elementary German I</td>
<td></td>
</tr>
<tr>
<td>&amp; GN 102</td>
<td>and Elementary German II</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 90-94

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

**Required Minor**

The music composition major does not require the completion of a minor.

**Additional Major Requirements**

MUS 121 Introduction To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Composition majors may audition for status as “principals” in any instrument or voice.

Principal status qualifies the student for two hours of credit per semester instead of the usual one hour. Not more than 10 hours or fewer than two hours may be taken in any single instrument or family of instruments.

Students who do not qualify as piano principals must enroll for that instrument during every semester. During the senior year, composition majors must present, to the satisfaction of the composition faculty, a recital of their works. Readings of works for large ensemble will count toward the fulfillment of this requirement.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

**MUA Applied Courses**

Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 231</td>
<td>Piano (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 232</td>
<td>Organ (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 233</td>
<td>Harpsichord (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 234</td>
<td>Voice (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 235</td>
<td>Violin (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 236</td>
<td>Viola (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 237</td>
<td>Cello (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 238</td>
<td>String Bass (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 239</td>
<td>Flute (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 240</td>
<td>Oboe (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 241</td>
<td>Bassoon (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 242</td>
<td>Clarinet (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 243</td>
<td>Saxophone (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 244</td>
<td>Trumpet (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 245</td>
<td>French Horn (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 246</td>
<td>Trombone (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 247</td>
<td>Euphonium (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 248</td>
<td>Tuba (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 249</td>
<td>Percussion (Secondary)</td>
<td>1</td>
</tr>
</tbody>
</table>

**MUA Ensembles Courses**

Four semesters of ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 150</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 350</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 450</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 152</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 252</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 352</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 452</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 254</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 354</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 454</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 156</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 256</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 356</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 456</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 158</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 258</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 358</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 458</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 159</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 259</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 359</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 459</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 162</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 262</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 362</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 462</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 163</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 263</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 363</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 463</td>
<td>University Singers</td>
<td>1</td>
</tr>
</tbody>
</table>
Career opportunities include full-time work as a performing musician, full-time opportunities as a licensed music therapist, and many other opportunities within the music industry.

**Types of Jobs Accepted**
Recent graduates from The University of Alabama are very successful in major symphony orchestras, military bands and jazz, as freelancers, and as working music therapists.

Learn more about opportunities in this field at the Career Center

**Music Performance, BM**
Students entering this program should have a strong background in music. This should include performance experience with a specific instrument or voice type.

**Admission into the Major**
All students must pass an audition in order to declare a music performance major. To schedule an audition, students must fill out a separate application to the School of Music, which is available online at [https://music.ua.edu/apply-audition/undergraduates/undergraduate-audition-request/](https://music.ua.edu/apply-audition/undergraduates/undergraduate-audition-request/).

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students earning the bachelor of music (BM) degree with a major in performance must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 131 applicable semester hours.

**Grade Point Average**
A 2.0 grade point average in each major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**
A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

**Ancillary Courses**
Grades in ancillary courses are not computed into the major GPA.

**Required Minor**
The music performance major does not require the completion of a minor.

**Additional Major Requirements**
MUS 121 Introduction To Listening does not satisfy the fine arts (FA) general education requirement for music majors. All music performance majors must earn a minimum of 33 hours of 300- or 400-level courses. To be admitted to the performance major in voice, students must complete the general admission requirements of the School of Music, including an audition program that includes a demonstration of the potential understanding of the classical vocal style (i.e., classical art songs sung in English and/or foreign languages). The foreign language requirement must be met with specific courses determined by placement examinations; students should consult the voice adviser for details.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Tracks**
The major in performance culminates in a bachelor of music (BM) degree and requires the successful completion of one of the following six tracks:

**Piano Track**

<table>
<thead>
<tr>
<th>Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>MUS 115 Theory I</td>
</tr>
<tr>
<td>4</td>
<td>MUS 117 Theory II</td>
</tr>
<tr>
<td>4</td>
<td>MUS 215 Theory III</td>
</tr>
<tr>
<td>4</td>
<td>MUS 217 Theory IV</td>
</tr>
<tr>
<td>3</td>
<td>MUS 250 Music In World Cultures</td>
</tr>
<tr>
<td>3</td>
<td>MUS 251 Music History I</td>
</tr>
<tr>
<td>3</td>
<td>MUS 252 Music History II</td>
</tr>
<tr>
<td>3</td>
<td>MUS 323 Music History III</td>
</tr>
<tr>
<td>3</td>
<td>MUS 303 or 16th Cent Counterpoint</td>
</tr>
<tr>
<td>3</td>
<td>MUS 304 18th Cent Counterpoint</td>
</tr>
<tr>
<td>3</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>MUS 303 16th Cent Counterpoint</td>
</tr>
<tr>
<td></td>
<td>MUS 403 Advanced Counterpoint</td>
</tr>
<tr>
<td></td>
<td>MUS 418 Schenkerian Analysis</td>
</tr>
<tr>
<td></td>
<td>MUS 426 Analysis 20th Cent Music</td>
</tr>
<tr>
<td>3</td>
<td>MUS 307 Form And Analysis</td>
</tr>
<tr>
<td>2</td>
<td>MUS 351 Fund Of Conducting</td>
</tr>
<tr>
<td>2</td>
<td>MUS 240 Piano Pedagogy</td>
</tr>
<tr>
<td>2</td>
<td>MUS 335 Accompanying Class</td>
</tr>
<tr>
<td>2</td>
<td>MUS 406 Keyboard Techniques</td>
</tr>
<tr>
<td>2</td>
<td>MUS 471 Lit Of The Piano</td>
</tr>
<tr>
<td>2</td>
<td>MUS 472 Lit Of The Piano</td>
</tr>
<tr>
<td>2</td>
<td>MUS electives 300 or 400 level</td>
</tr>
<tr>
<td>0</td>
<td>MUA 010 Music Convocation (five semesters)</td>
</tr>
<tr>
<td>6</td>
<td>MUA 171 Piano (two semesters)¹</td>
</tr>
<tr>
<td>6</td>
<td>MUA 271 Piano (two semesters)¹</td>
</tr>
<tr>
<td>0</td>
<td>MUA 199 Sophomore Qualifying</td>
</tr>
<tr>
<td>5</td>
<td>MUA 371 Piano (two semesters)¹</td>
</tr>
<tr>
<td>1</td>
<td>MUA 399 Junior Recital</td>
</tr>
<tr>
<td>5</td>
<td>MUA 471 Piano (two semesters)¹</td>
</tr>
<tr>
<td>1</td>
<td>MUA 499 Senior Recital</td>
</tr>
<tr>
<td>2</td>
<td>MUA 166 Piano Ensemble I (Two semesters)</td>
</tr>
<tr>
<td>8</td>
<td>MUA ensembles (eight semesters)</td>
</tr>
<tr>
<td>85</td>
<td>Total Hours</td>
</tr>
</tbody>
</table>

¹ Students earning the bachelor of music (BM) degree with a major in performance must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 131 applicable semester hours.
Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

**MUA Applied Courses**

Four semesters of secondary applied music credit must be in voice or a single instrument chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 232</td>
<td>Organ (Secondary) 1</td>
</tr>
<tr>
<td>MUA 233</td>
<td>Harpsichord (Secondary) 1</td>
</tr>
<tr>
<td>MUA 234</td>
<td>Voice (Secondary) 1</td>
</tr>
<tr>
<td>MUA 235</td>
<td>Violin (Secondary) 1</td>
</tr>
<tr>
<td>MUA 236</td>
<td>Viola (Secondary) 1</td>
</tr>
<tr>
<td>MUA 237</td>
<td>Cello (Secondary) 1</td>
</tr>
<tr>
<td>MUA 238</td>
<td>String Bass (Secondary) 1</td>
</tr>
<tr>
<td>MUA 239</td>
<td>Flute (Secondary) 1</td>
</tr>
<tr>
<td>MUA 240</td>
<td>Oboe (Secondary) 1</td>
</tr>
<tr>
<td>MUA 241</td>
<td>Bassoon (Secondary) 1</td>
</tr>
<tr>
<td>MUA 242</td>
<td>Clarinet (Secondary) 1</td>
</tr>
<tr>
<td>MUA 243</td>
<td>Saxophone (Secondary) 1</td>
</tr>
<tr>
<td>MUA 244</td>
<td>Trumpet (Secondary) 1</td>
</tr>
<tr>
<td>MUA 245</td>
<td>French Horn (Secondary) 1</td>
</tr>
<tr>
<td>MUA 246</td>
<td>Trombone (Secondary) 1</td>
</tr>
<tr>
<td>MUA 247</td>
<td>Euphonium (Secondary) 1</td>
</tr>
<tr>
<td>MUA 248</td>
<td>Tuba (Secondary) 1</td>
</tr>
<tr>
<td>MUA 249</td>
<td>Percussion (Secondary) 1</td>
</tr>
</tbody>
</table>

**Ensemble Courses**

Six semesters of ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 150</td>
<td>Symphony Orchestra 1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>Symphony Orchestra 1</td>
</tr>
<tr>
<td>MUA 350</td>
<td>Symphony Orchestra 1</td>
</tr>
<tr>
<td>MUA 450</td>
<td>Symphony Orchestra 1</td>
</tr>
<tr>
<td>MUA 152</td>
<td>Wind Ensemble 1</td>
</tr>
<tr>
<td>MUA 252</td>
<td>Wind Ensemble 1</td>
</tr>
<tr>
<td>MUA 352</td>
<td>Wind Ensemble 1</td>
</tr>
<tr>
<td>MUA 452</td>
<td>Wind Ensemble 1</td>
</tr>
<tr>
<td>MUA 153</td>
<td>Marching Band 1</td>
</tr>
<tr>
<td>MUA 253</td>
<td>Marching Band 1</td>
</tr>
<tr>
<td>MUA 353</td>
<td>Marching Band 1</td>
</tr>
<tr>
<td>MUA 453</td>
<td>Marching Band 1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>Symphonic Band 1</td>
</tr>
<tr>
<td>MUA 254</td>
<td>Symphonic Band 1</td>
</tr>
<tr>
<td>MUA 354</td>
<td>Symphonic Band 1</td>
</tr>
<tr>
<td>MUA 454</td>
<td>Symphonic Band 1</td>
</tr>
<tr>
<td>MUA 156</td>
<td>Percussion Ensemble 1</td>
</tr>
<tr>
<td>MUA 256</td>
<td>Percussion Ensemble 1</td>
</tr>
<tr>
<td>MUA 356</td>
<td>Percussion Ensemble 1</td>
</tr>
<tr>
<td>MUA 456</td>
<td>Percussion Ensemble 1</td>
</tr>
<tr>
<td>MUA 158</td>
<td>Contemp Music Ensemble 1</td>
</tr>
<tr>
<td>MUA 258</td>
<td>Contemporary Ensemble 1</td>
</tr>
</tbody>
</table>

**Organ Track**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Theory I 4</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Theory II 4</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Theory III 4</td>
</tr>
<tr>
<td>MUS 217</td>
<td>Theory IV 4</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Music In World Cultures 3</td>
</tr>
<tr>
<td>MUS 251</td>
<td>Music History I 3</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Music History II 3</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Music History III 3</td>
</tr>
<tr>
<td>MUS 303 or MUS 304</td>
<td>16th Cent Counterpoint 3</td>
</tr>
<tr>
<td>MUS 304</td>
<td>18th Cent Counterpoint 3</td>
</tr>
<tr>
<td>MUS 307</td>
<td>Form And Analysis 3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 303</td>
<td>16th Cent Counterpoint 3</td>
</tr>
<tr>
<td>MUS 304</td>
<td>18th Cent Counterpoint 3</td>
</tr>
<tr>
<td>MUS 403</td>
<td>Advanced Counterpoint</td>
</tr>
<tr>
<td>MUS 418</td>
<td>Schenkerian Analysis</td>
</tr>
<tr>
<td>MUS 426</td>
<td>Analysis 20th Century Music</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Fund Of Conducting 2</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Organ Pedagogy 2</td>
</tr>
<tr>
<td>MUS 333</td>
<td>Service Playing 3</td>
</tr>
<tr>
<td>MUS 334</td>
<td>Service Playing 3</td>
</tr>
<tr>
<td>MUS 431</td>
<td>Organ Design 2</td>
</tr>
<tr>
<td>MUS 477</td>
<td>Organ Literature 2</td>
</tr>
<tr>
<td>MUS 478</td>
<td>Organ Literature 2</td>
</tr>
</tbody>
</table>
MUS 492  Choral Conducting  2
MUA 010  Music Convocation (five semesters)  0
MUA 172  Organ (Majors) (two semesters)  6
MUA 272  Organ (Majors) (two semesters)  6
MUA 199  Sophomore Qualifying  0
MUA 372  Organ (Majors) (two semesters)  5
MUA 399  Junior Recital  1
MUA 231  Piano (Secondary) (four semesters)  4

Total Hours  91

1 Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

**Ensemble Courses**

Eight semesters of ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
</table>
| MUA 150  Symphony Orchestra
| MUA 250  Symphony Orchestra
| MUA 350  Symphony Orchestra
| MUA 450  Symphony Orchestra
| MUA 152  Wind Ensemble
| MUA 252  Wind Ensemble
| MUA 352  Wind Ensemble
| MUA 452  Wind Ensemble
| MUA 153  Marching Band
| MUA 253  Marching Band
| MUA 353  Marching Band
| MUA 453  Marching Band
| MUA 154  Symphonic Band
| MUA 254  Symphonic Band
| MUA 354  Symphonic Band
| MUA 454  Symphonic Band
| MUA 156  Percussion Ensemble
| MUA 256  Percussion Ensemble
| MUA 356  Percussion Ensemble
| MUA 456  Percussion Ensemble
| MUA 158  Contemp Music Ensemble
| MUA 258  Contemporary Ensemble
| MUA 358  Contemp Music Ensemble
| MUA 458  Contemporary Ensemble
| MUA 159  Jazz Ensembles
| MUA 259  Jazz Ensemble
| MUA 359  Jazz Ensembles
| MUA 459  Jazz Ensemble
| MUA 160  Opera Workshop
| MUA 260  Opera Workshop
| MUA 360  Opera Workshop
| MUA 460  Opera Workshop

MUA 161  Opera Production  1
MUA 261  Opera Production  1
MUA 361  Opera Production  1
MUA 461  Opera Production  1
MUA 162  University Chorus  1
MUA 262  University Chorus  1
MUA 362  University Chorus  1
MUA 462  University Chorus  1
MUA 163  University Singers  1
MUA 263  University Singers  1
MUA 363  University Singers  1
MUA 463  University Singers  1
MUA 167  Jazz Combo  1
MUA 267  Jazz Combo  1
MUA 367  Jazz Combo  1
MUA 467  Jazz Combo  1

**Strings Track**

Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
</table>
| MUS 115  Theory I
| MUS 117  Theory II
| MUS 215  Theory III
| MUS 217  Theory IV
| MUS 250  Music In World Cultures
| MUS 251  Music History I
| MUS 252  Music History II
| MUS 323  Music History III
| MUS 303 or 16th Cent Counterpoint
| MUS 304  18th Cent Counterpoint
| MUS 307  Form And Analysis
| Select one of the following:
| MUS 303  16th Cent Counterpoint
| MUS 304  18th Cent Counterpoint
| MUS 403  Advanced Counterpoint
| MUS 418  Schenkerian Analysis
| MUS 426  Analysis 20th Cent Music
| MUS 351  Fund Of Conducting
| MUS 344  String Pedagogy
| MUS 473  String Literature
| MUA 010  Music Convocation (five semesters)  0
| MUA string instrument 100 level (two semesters)  6
| MUA string instrument 200 level (two semesters)  6
| MUA 199  Sophomore Qualifying  0
| MUA string instrument 300 level (two semesters)  5
| MUA 399  Junior Recital  1
| MUA string instrument 400 level (two semesters)  5
| MUA 499  Senior Recital  1
| MUA ensembles (eight semesters)  8
**MUA Applied Study Courses**

Eight semesters of applied study should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 175</td>
<td>Violin (Majors)</td>
<td>3-16</td>
</tr>
<tr>
<td>&amp; MUA 275</td>
<td>and Violin (Majors)</td>
<td></td>
</tr>
<tr>
<td>&amp; MUA 375</td>
<td>and Violin (Majors)</td>
<td></td>
</tr>
<tr>
<td>&amp; MUA 475</td>
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<tr>
<td>MUA 176</td>
<td>Viola (Majors)</td>
<td>3-16</td>
</tr>
<tr>
<td>&amp; MUA 276</td>
<td>and Viola (Majors)</td>
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</tr>
<tr>
<td>&amp; MUA 376</td>
<td>and Viola (Majors)</td>
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</tr>
<tr>
<td>&amp; MUA 476</td>
<td>and Viola (Majors)</td>
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</tr>
<tr>
<td>MUA 177</td>
<td>Cello (Majors)</td>
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<td>&amp; MUA 477</td>
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<td>String Bass (Majors)</td>
<td>3-16</td>
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<tr>
<td>&amp; MUA 378</td>
<td>and String Bass (Majors)</td>
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**Ensemble Courses**

Eight semesters of ensembles should be chosen from the following courses:

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<td>MUA 252</td>
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<td>1</td>
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<td>MUA 352</td>
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<td>1</td>
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<tr>
<td>MUA 452</td>
<td>Wind Ensemble</td>
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<tr>
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<td>MUA 258</td>
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<td>MUA 458</td>
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<td>MUA 159</td>
<td>Jazz Ensembles</td>
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<tr>
<td>MUA 459</td>
<td>Jazz Ensemble</td>
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</tr>
<tr>
<td>MUA 167</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUA 267</td>
<td>Jazz Combo</td>
<td>1</td>
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<tr>
<td>MUA 367</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUA 467</td>
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**Woodwind, Brass and Percussion Track**

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<td>Theory IV</td>
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<td>MUS 250</td>
<td>Music In World Cultures</td>
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<td>MUS 251</td>
<td>Music History I</td>
<td>3</td>
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<td>3</td>
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<td>MUS 323</td>
<td>Music History III</td>
<td>3</td>
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<tr>
<td>MUS 303</td>
<td>16th Cent Counterpoint</td>
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<td>MUS 304</td>
<td>18th Cent Counterpoint</td>
<td>3</td>
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<tr>
<td>MUS 307</td>
<td>Form And Analysis</td>
<td>3</td>
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<td>MUA 299</td>
<td>Piano Proficiency</td>
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<td>MUA 169</td>
<td>Chamber Music</td>
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<td>&amp; MUA 369</td>
<td>and Chamber Music</td>
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<td>&amp; MUA 469</td>
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<td>Music Convocation (five semesters)</td>
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<td>and Class Piano III</td>
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<tr>
<td>&amp; MUA 124</td>
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**MUA Applied Study Courses**

Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons. Applied study should be chosen from the following courses:

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<th>Course Title</th>
<th>Hours</th>
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<tbody>
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<td>1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>Symphony Orchestra</td>
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<td>Symphony Orchestra</td>
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<tr>
<td>MUA 152</td>
<td>Wind Ensemble</td>
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<tr>
<td>MUA 252</td>
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<td>1</td>
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<td>MUA 352</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 452</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 254</td>
<td>Symphonic Band</td>
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<tr>
<td>MUA 354</td>
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<td>1</td>
</tr>
<tr>
<td>MUA 454</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 158</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 258</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 358</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
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<td>MUA 458</td>
<td>Contemporary Ensemble</td>
<td>1</td>
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<td>MUA 159</td>
<td>Jazz Ensembles</td>
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<tr>
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<td>MUA 459</td>
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<td>1</td>
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<tr>
<td>MUA 167</td>
<td>Jazz Combo</td>
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<td>MUA 267</td>
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<tr>
<td>MUA 467</td>
<td>Jazz Combo</td>
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</table>
Undergraduate Catalog

**MUA 179** Flute (Majors) & MUA 279 and Flute (Majors) & MUA 379 and Flute (Majors) & MUA 479 and Flute (Majors)

**MUA 180** Oboe (Majors) 3-16 & MUA 280 and Oboe (Majors) & MUA 380 and Oboe (Majors) & MUA 480 and Oboe (Majors)

**MUA 181** Bassoon (Majors) 3-16 & MUA 281 and Bassoon (Majors) & MUA 381 and Bassoon (Majors) & MUA 481 and Bassoon (Majors)

**MUA 182** Clarinet (Majors) 3-16 & MUA 282 and Clarinet (Majors) & MUA 382 and Clarinet (Majors) & MUA 482 and Clarinet (Majors)

**MUA 183** Saxophone (Majors) 3-16 & MUA 283 and Saxophone (Majors) & MUA 383 and Saxophone (Majors) & MUA 483 and Saxophone (Majors)

**MUA 184** Trumpet (Majors) 3-16 & MUA 284 and Trumpet (Majors) & MUA 384 and Trumpet (Majors) & MUA 484 and Trumpet (Majors)

**MUA 185** French Horn (Majors) 3-16 & MUA 285 and French Horn (Majors) & MUA 385 and French Horn (Majors) & MUA 485 and French Horn (Majors)

**MUA 186** Trombone (Majors) 3-16 & MUA 286 and Trombone (Majors) & MUA 386 and Trombone (Majors) & MUA 486 and Trombone (Majors)

**MUA 187** Euphonium (Majors) 3-16 & MUA 287 and Euphonium (Majors) & MUA 387 and Euphonium (Majors) & MUA 487 and Euphonium (Majors)

**MUA 188** Tuba (Majors) 3-16 & MUA 288 and Tuba (Majors) & MUA 388 and Tuba (Majors) & MUA 488 and Tuba (Majors)

**MUA 189** Percussion (Majors) 3-16 & MUA 289 and Percussion (Majors) & MUA 389 and Percussion (Majors) & MUA 489 and Percussion (Majors)

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**Voice Track**

Students must earn 22 hours and eight semesters in applied study, with a minimum of five hours at the 300 level and five hours at the 400 level. During a recital semester, students should register for two hours of applied lessons.

**Ensemble Courses**

Eight semesters of large ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Hours</th>
<th>MUA 150</th>
<th>Symphony Orchestra</th>
<th>1</th>
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<tbody>
<tr>
<td>Hours</td>
<td>MUA 250</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>Hours</td>
<td>MUA 350</td>
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<tr>
<td>Hours</td>
<td>MUA 450</td>
<td>Symphony Orchestra</td>
<td>1</td>
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<tr>
<td>Hours</td>
<td>MUA 152</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>Hours</td>
<td>MUA 252</td>
<td>Wind Ensemble</td>
<td>1</td>
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<tr>
<td>Hours</td>
<td>MUA 352</td>
<td>Wind Ensemble</td>
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<tr>
<td>Hours</td>
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<td>Wind Ensemble</td>
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<td>Marching Band</td>
<td>1</td>
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<tr>
<td>Hours</td>
<td>MUA 353</td>
<td>Marching Band</td>
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<tr>
<td>Hours</td>
<td>MUA 453</td>
<td>Marching Band</td>
<td>1</td>
</tr>
<tr>
<td>Hours</td>
<td>MUA 154</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>Hours</td>
<td>MUA 254</td>
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</tr>
<tr>
<td>Hours</td>
<td>MUA 354</td>
<td>Symphonic Band</td>
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<td>Hours</td>
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<td>Hours</td>
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<td>MUA 256</td>
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<td>MUA 356</td>
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</tr>
<tr>
<td>Hours</td>
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</tr>
<tr>
<td>Hours</td>
<td>MUA 258</td>
<td>Contemporary Ensemble</td>
<td>1</td>
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<tr>
<td>Hours</td>
<td>MUA 358</td>
<td>Contemp Music Ensemble</td>
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<tr>
<td>Hours</td>
<td>MUA 458</td>
<td>Contemporary Ensemble</td>
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<tr>
<td>Hours</td>
<td>MUA 159</td>
<td>Jazz Ensembles</td>
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<td>MUA 259</td>
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<td>Hours</td>
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<td>Theory II</td>
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<td>Theory III</td>
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<td>MUS 217</td>
<td>Theory IV</td>
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<td>Music In World Cultures</td>
<td>3</td>
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<tr>
<td>Hours</td>
<td>MUS 251</td>
<td>Music History I</td>
<td>3</td>
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<td>MUS 252</td>
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<td>Hours</td>
<td>MUS 254</td>
<td>Diction For Singers I</td>
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<td>MUS 255</td>
<td>Diction For Singers II</td>
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<td>Hours</td>
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<td>MUS 304</td>
<td>18th Cent Counterpoint</td>
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Select one of the following:

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<th>MUS 303</th>
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<td>Hours</td>
<td>MUS 304</td>
<td>18th Cent Counterpoint</td>
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<tr>
<td>Hours</td>
<td>MUS 403</td>
<td>Advanced Counterpoint</td>
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<td>Hours</td>
<td>MUS 418</td>
<td>Schenkerian Analysis</td>
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<td>Hours</td>
<td>MUS 426</td>
<td>Analysis 20th Cent Music</td>
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<td>Hours</td>
<td>MUS 307</td>
<td>Form And Analysis</td>
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<td>Hours</td>
<td>MUS 351</td>
<td>Fund Of Conducting</td>
<td>2</td>
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<td>Hours</td>
<td>MUS 444</td>
<td>Vocal Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>Hours</td>
<td>MUS 474</td>
<td>Song Literature</td>
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MUS 475  Song Literature  
MUS 492  Choral Conducting  
MUA 010  Music Convocation (five semesters)  
MUA 174  Voice (Majors) (two semesters)  
MUA 274  Voice (Majors) (two semesters)  
MUA 199  Sophomore Qualifying  
MUA 374  Voice (Majors) (two semesters)  
MUA 499  Senior Recital  
MUA choral ensemble (eight semesters)  

Credit Hours Subtotal:  

MUA 121  Class Piano I  
& MUA 122  and Class Piano II  
& MUA 123  and Class Piano III  
& MUA 124 or and Class Piano IV  
MUA 299  Piano Proficiency  

Ancillary Courses  
The voice performance track requires 16 hours of French, German 
and Italian with two semesters in at least one language.  

| FR 101  | Elementary French I  | 4  |
| GN 101 | Elementary German I  | 4  |
| GN 103 | Introductory Italian I  | 4  |

Select one of the following:  

| FR 102  | Elementary French II  | 4  |
| GN 102  | Elementary German II  | 4  |
| IT 102  | Introductory Italian II  | 4  |

Credit Hours Subtotal:  

Total Hours  

Choral Ensemble Courses  
Eight semesters of choral ensembles should be chosen from the 
following courses:  

| MUA 162  | University Chorus  | 1  |
| MUA 262  | University Chorus  | 1  |
| MUA 362  | University Chorus  | 1  |
| MUA 462  | University Chorus  | 1  |
| MUA 163  | University Singers  | 1  |
| MUA 263  | University Singers  | 1  |
| MUA 363  | University Singers  | 1  |
| MUA 463  | University Singers  | 1  |

Jazz Studies Track  

| MUS 115  | Theory I  | 4  |
| MUS 117  | Theory II  | 4  |
| MUS 215  | Theory III  | 4  |
| MUS 217  | Theory IV  | 4  |
| MUS 228  | Jazz Piano Jazz Theory I  | 1  |
| MUS 229  | Jazz Piano And Theory II  | 1  |
| MUS 230  | Improvisation I  | 1  |
| MUS 231  | Improvisation II  | 1  |

| MUS 250  | Music In World Cultures  | 3  |
| MUS 251  | Music History I  | 3  |
| MUS 252  | Music History II  | 3  |
| MUS 303 or  | 16th Cent Counterpoint  | 3  |
| MUS 304  | 18th Cent Counterpoint  | 3  |
| MUS 307  | Form And Analysis  | 3  |
| MUS 310  | Arranging  | 3  |
| MUS 312  | Intermediate Arranging  | 3  |
| MUS 323  | Music History III  | 3  |
| MUS 331  | Jazz Symposium  | 3  |
| MUS 340  | Intro Recording Techniq  | 3  |
| MUS 351  | Fund Of Conducting  | 2  |
| MUS 401  | Film Scoring I  | 3  |
| MUS 402  | Film Scoring II  | 3  |
| MUS 405  | Studio Tech Arrang Orchs  | 3  |
| MUS 461  | History/Literature Jazz  | 3  |
| MUA 121  | Class Piano I  | 4  |
& MUA 122  and Class Piano II  
& MUA 123  and Class Piano III  
& MUA 124 or and Class Piano IV  
MUA 299  Piano Proficiency  

MUA 010  Music Convocation (five semesters)  
MUA applied instrument 100 level (two semesters)  
MUA applied instrument 200 level (two semesters)  
MUA 199  Sophomore Qualifying  
MUA applied instrument 300 level (two semesters)  
MUA applied instrument 400 level (two semesters)  
MUA 499  Senior Recital  
MUA 159  Jazz Ensembles ((four semesters))  

Jazz Combos  
& MUA 267  and Jazz Combo  
& MUA 367  and Jazz Combo  
& MUA 467  and Jazz Combo ((four semesters))  

Total Hours  

MUS 331 Jazz Symposium will be used as an upper-level theory 
requirement in jazz studies.

MUA Applied Study Courses  
Students must earn 16 hours and eight semesters in a single jazz 
instrument, with a minimum of eight hours at the 300 level chosen from 
the following courses:  

| MUA 171  | Piano (Majors)  | 3-16  |
| MUA 271  | and Piano (Majors)  | 3-16  |
| MUA 371  | and Piano (Majors)  | 3-16  |
| MUA 471  | and Piano (Majors)  | 3-16  |
| MUA 178  | String Bass (Majors)  | 3-16  |
| MUA 278  | and String Bass (Majors)  | 3-16  |
| MUA 378  | and String Bass (Majors)  | 3-16  |
| MUA 478  | and String Bass (Majors)  | 3-16  |
| MUA 179  | Flute (Majors)  | 3-16  |
| MUA 279  | and Flute (Majors)  | 3-16  |
| MUA 379  | and Flute (Majors)  | 3-16  |
| MUA 479  | and Flute (Majors)  | 3-16  |
Undergraduate Catalog

Career opportunities include full-time work as a performing musician, full-time opportunities as a licensed music therapist, and many other opportunities within the music industry.

Types of Jobs Accepted
Recent graduates from The University of Alabama are very successful in major symphony orchestras, military bands, jazz, as freelancers, and as working music therapists.

Learn more about opportunities in this field at the Career Center

Music Theory, BM

Students entering this program should have a strong background in music. This should include performance experience with a specific instrument or voice type.

Admission into the Major
In order to declare a major in music theory, students must submit a writing sample and a statement of career goals and must take an exam on music fundamentals. To begin the application process, students must fill out a separate Audition Request Form, which is available online at http://music.ua.edu/apply-audition/. Upon successful review of the materials, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students earning the bachelor of music (BM) degree with a major in theory must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 129 applicable semester hours.

Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 217</td>
<td>Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 219</td>
<td>Composition I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUS 251</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 300</td>
<td>Intro Music Theory Research</td>
<td>2</td>
</tr>
<tr>
<td>MUS 303</td>
<td>16th Cent Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 304</td>
<td>18th Cent Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 307</td>
<td>Form And Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Music History III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 325</td>
<td>Orchestration I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Fund Of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 403</td>
<td>Advanced Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 418</td>
<td>Schenkerian Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 426</td>
<td>Analysis 20th Cent Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 492</td>
<td>or Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 494</td>
<td>Band Conducting</td>
<td></td>
</tr>
<tr>
<td>MUS electives 300 or 400 level</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUA 121</td>
<td>Class Piano I</td>
<td>4</td>
</tr>
<tr>
<td>MUA 212</td>
<td>and Class Piano II</td>
<td></td>
</tr>
<tr>
<td>MUA 213</td>
<td>and Class Piano III</td>
<td></td>
</tr>
<tr>
<td>MUA 214</td>
<td>and Class Piano IV</td>
<td></td>
</tr>
<tr>
<td>MUA 295</td>
<td>Piano Proficiency</td>
<td></td>
</tr>
<tr>
<td>MUA applied (four semesters)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUA 231</td>
<td>Piano (Secondary)</td>
<td>0.5-1</td>
</tr>
<tr>
<td>MUA ensembles (four semesters)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>76.5-77</td>
</tr>
</tbody>
</table>

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary Courses
Grades in ancillary courses are not computed into the major GPA. The music major in theory requires 12–14 hours of French, German and/or Italian subject to theory faculty approval.

Required Minor
The music theory major does not require the completion of a minor.

Additional Major Requirements
MUS 121 Introduction To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Theory majors may audition for status as “principals” in any instrument or voice. Principal
status qualifies the student for two hours of credit per semester instead of the usual one hour. No more than 10 hours or fewer than two hours may be taken in any single instrument or family of instruments. Students who do not qualify as piano principals must enroll for that instrument during every semester. The Seminar in Music Theory Research is normally taken during the second semester of the student’s sophomore year. During the senior year, theory majors must present, to the satisfaction of the theory faculty, a paper delivered as a lecture based on research done under the supervision of theory faculty.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**MUA Applied Courses**

Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instrument/Type</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 231</td>
<td>Piano (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 232</td>
<td>Organ (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 233</td>
<td>Harpsichord (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 234</td>
<td>Voice (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 235</td>
<td>Violin (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 236</td>
<td>Viola (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 237</td>
<td>Cello (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 238</td>
<td>String Bass (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 239</td>
<td>Flute (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 240</td>
<td>Oboe (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 241</td>
<td>Bassoon (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 242</td>
<td>Clarinet (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 243</td>
<td>Saxophone (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 244</td>
<td>Trumpet (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 245</td>
<td>French Horn (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 246</td>
<td>Trombone (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 247</td>
<td>Euphonium (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 248</td>
<td>Tuba (Secondary)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 249</td>
<td>Percussion (Secondary)</td>
<td>1</td>
</tr>
</tbody>
</table>

**MUA Ensemble Courses**

Four semesters of ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Ensemble/Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 150</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 350</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 450</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 152</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 252</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 352</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 452</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 254</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Ensemble/Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 354</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 454</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 156</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 256</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 356</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 456</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 158</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 258</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 358</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 458</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 159</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 259</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 359</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 459</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 162</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 262</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 362</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 462</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 163</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 263</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 363</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 463</td>
<td>University Singers</td>
<td>1</td>
</tr>
</tbody>
</table>

Career opportunities include full-time work as a performing musician, full-time opportunities as a licensed music therapist, and many other avenues within the music industry.

**Types of Jobs Accepted**

Recent graduates from The University of Alabama are very successful in major symphony orchestras, military bands, jazz, as freelancers, and as working music therapists.

Learn more about opportunities in this field at the Career Center.

**Music Therapy, BM**

Students entering this program should have a strong background in music. This should include performance experience with a specific instrument or voice type.

**Admission into the Major**

All students must pass an audition in order to declare a music therapy major. To schedule an audition, students must fill out a separate application to the School of Music, which is available online at music.ua.edu/apply-audition.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students earning the bachelor of music (BM) degree with a major in music therapy must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 144 applicable semester hours.
Upper-level Residency
A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Required Minor
The music therapy major does not require the completion of a minor.

Additional Major Requirements
MUS 121 Introduction To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Piano and guitar proficiencies must be passed prior to the internship. Admission to any music therapy course at the 300 level or above is contingent upon:

- the successful completion of MUS 217 Theory IV
- principal performance level at the 300 level
- a cumulative grade point average of at least 2.0
- grades of C- or higher in all previous music therapy courses or, for equivalency students, acceptance into the program; all requirements must be completed prior to enrollment in MUS 489 Music Therapy Internship

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

MUA Principal Courses
Students must earn a minimum of 15 hours and eight semesters in a single instrument or voice, with a minimum of three hours at the 300 level and four hours at the 400 level. In the semester a student registers for MUA 399 Junior Recital, only one hour of applied lessons should be scheduled. These courses should be chosen from the following courses:

<table>
<thead>
<tr>
<th>MUA Course</th>
<th>Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>Harp (Majors) &amp; MUA 270 and Harp (Majors)</td>
<td>1-4</td>
</tr>
<tr>
<td>171</td>
<td>Piano (Majors) &amp; MUA 271 and Piano (Majors)</td>
<td>1-4</td>
</tr>
<tr>
<td>172</td>
<td>Organ (Majors) &amp; MUA 272 and Organ (Majors) &amp; MUA 372 and Organ (Majors) &amp; MUA 472 and Organ (Majors)</td>
<td>1-4</td>
</tr>
<tr>
<td>174</td>
<td>Voice (Majors) &amp; MUA 274 and Voice (Majors) &amp; MUA 374 and Voice (Majors) &amp; MUA 474 and Voice (Majors)</td>
<td>1-4</td>
</tr>
<tr>
<td>175</td>
<td>Violin (Majors) &amp; MUA 275 and Violin (Majors) &amp; MUA 375 and Violin (Majors) &amp; MUA 475 and Violin (Majors)</td>
<td>1-4</td>
</tr>
<tr>
<td>176</td>
<td>Viola (Majors) &amp; MUA 276 and Viola (Majors) &amp; MUA 376 and Viola (Majors) &amp; MUA 476 and Viola (Majors)</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.
MUA 177  Cello (Majors)  1-4  
& MUA 277  and Cello (Majors)  
& MUA 377  and Cello (Majors)  
& MUA 477  and Cello (Majors)  
MUA 178  String Bass (Majors)  1-4  
& MUA 278  and String Bass (Majors)  
& MUA 378  and String Bass (Majors)  
& MUA 478  and String Bass (Majors)  
MUA 179  Flute (Majors)  1-4  
& MUA 279  and Flute (Majors)  
& MUA 379  and Flute (Majors)  
& MUA 479  and Flute (Majors)  
MUA 180  Oboe (Majors)  1-4  
& MUA 280  and Oboe (Majors)  
& MUA 380  and Oboe (Majors)  
& MUA 480  and Oboe (Majors)  
MUA 181  Bassoon (Majors)  1-4  
& MUA 281  and Bassoon (Majors)  
& MUA 381  and Bassoon (Majors)  
& MUA 481  and Bassoon (Majors)  
MUA 182  Clarinet (Majors)  1-4  
& MUA 282  and Clarinet (Majors)  
& MUA 382  and Clarinet (Majors)  
& MUA 482  and Clarinet (Majors)  
MUA 183  Saxophone (Majors)  1-4  
& MUA 283  and Saxophone (Majors)  
& MUA 383  and Saxophone (Majors)  
& MUA 483  and Saxophone (Majors)  
MUA 184  Trumpet (Majors)  1-4  
& MUA 284  and Trumpet (Majors)  
& MUA 384  and Trumpet (Majors)  
& MUA 484  and Trumpet (Majors)  
MUA 185  French Horn (Majors)  1-4  
& MUA 285  and French Horn (Majors)  
& MUA 385  and French Horn (Majors)  
& MUA 485  and French Horn (Majors)  
MUA 186  Trombone (Majors)  1-4  
& MUA 286  and Trombone (Majors)  
& MUA 386  and Trombone (Majors)  
& MUA 486  and Trombone (Majors)  
MUA 187  Euphonium (Majors)  1-4  
& MUA 287  and Euphonium (Majors)  
& MUA 387  and Euphonium (Majors)  
& MUA 487  and Euphonium (Majors)  
MUA 188  Tuba (Majors)  1-4  
& MUA 288  and Tuba (Majors)  
& MUA 388  and Tuba (Majors)  
& MUA 488  and Tuba (Majors)  
MUA 189  Percussion (Majors)  1-4  
& MUA 289  and Percussion (Majors)  
& MUA 389  and Percussion (Majors)  
& MUA 489  and Percussion (Majors)  
MUA 190  Guitar (Majors)  1-4  
& MUA 290  and Guitar (Majors)  
& MUA 390  and Guitar (Majors)  
& MUA 490  and Guitar (Majors)  

**Additional Study Courses**

In addition to the principal voice, piano or other instrument, students must earn a minimum of five hours of additional study:

**Voice Principal**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 121</td>
<td>1</td>
</tr>
<tr>
<td>&amp; MUA 122</td>
<td></td>
</tr>
<tr>
<td>&amp; MUA 123</td>
<td></td>
</tr>
<tr>
<td>&amp; MUA 124 or</td>
<td></td>
</tr>
<tr>
<td>&amp; MUA 299</td>
<td></td>
</tr>
<tr>
<td>Piano Proficiency</td>
<td></td>
</tr>
</tbody>
</table>

**Piano Principal**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 271</td>
<td>1</td>
</tr>
</tbody>
</table>

**Other Instrument Principal**

Select four semesters of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 381</td>
<td>1</td>
</tr>
<tr>
<td>MUS 335</td>
<td>2</td>
</tr>
<tr>
<td>MUS 406</td>
<td>2</td>
</tr>
</tbody>
</table>

**MUA Ensemble Courses**

Eight semesters of ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 150</td>
<td>1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>1</td>
</tr>
<tr>
<td>MUA 350</td>
<td>1</td>
</tr>
<tr>
<td>MUA 450</td>
<td>1</td>
</tr>
<tr>
<td>MUA 152</td>
<td>1</td>
</tr>
<tr>
<td>MUA 252</td>
<td>1</td>
</tr>
<tr>
<td>MUA 352</td>
<td>1</td>
</tr>
<tr>
<td>MUA 452</td>
<td>1</td>
</tr>
<tr>
<td>MUA 153</td>
<td>1</td>
</tr>
<tr>
<td>MUA 253</td>
<td>1</td>
</tr>
<tr>
<td>MUA 353</td>
<td>1</td>
</tr>
<tr>
<td>MUA 453</td>
<td>1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>1</td>
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<tr>
<td>MUA 254</td>
<td>1</td>
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<tr>
<td>MUA 354</td>
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</tr>
<tr>
<td>MUA 454</td>
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<tr>
<td>MUA 156</td>
<td>1</td>
</tr>
<tr>
<td>MUA 256</td>
<td>1</td>
</tr>
<tr>
<td>MUA 356</td>
<td>1</td>
</tr>
<tr>
<td>MUA 456</td>
<td>1</td>
</tr>
</tbody>
</table>
related positions in the music industry. The emphasis is on nonprofit organization management.

The basis for the arts administration concentration is a major in music with specified ancillary requirements and a Culverhouse College of Business minor in general business, entrepreneurship, management, or world business. The remainder of the hours required for the degree includes College of Arts and Sciences requirements and electives.

**Admission into the Major**

All students must pass an audition in order to declare an Arts Administration major (BA). To schedule an audition, students must fill out a separate application to the School of Music, which is available online at [http://music.ua.edu/apply-audition/](http://music.ua.edu/apply-audition/).

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Special Opportunities**

The School of Music offers opportunities for students of all majors to perform with the bands, orchestras, choirs, and jazz and chamber groups. Annually, the school sponsors more than 200 student performances. In addition to performance opportunities, a variety of lectures, forums, and conferences addressing music as an art form are sponsored each year.

Students earning the bachelor of arts (BA) degree with a major in music with an arts administration concentration must complete all University, college and departmental degree requirements. This includes the general education requirements; the following major requirements; all requirements for an approved minor in general business, entrepreneurship, management, or world business; and other sufficient credits to total a minimum of 120 applicable semester hours.

### Hours

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115 Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 117 Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 250 Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUS 251 Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 252 Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323 Music History III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 340 Intro Recording Technique</td>
<td>3</td>
</tr>
<tr>
<td>MUS 365 Legal Issues in the Arts</td>
<td>3</td>
</tr>
<tr>
<td>MUS 496 Music Admin Internship</td>
<td>3-6</td>
</tr>
<tr>
<td>MUS electives 300 or 400 level</td>
<td>4</td>
</tr>
<tr>
<td>MUA 010 Music Convocation (five semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUA applied 100 level (two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUA applied 200 level (two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUA ensembles (four semesters)</td>
<td></td>
</tr>
</tbody>
</table>

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in music with the arts administration concentration requires the successful completion of 12 hours from the following courses outside the major:

| ARH 252 Survey of Art I | 3 |

**Types of Jobs Accepted**

Recent graduates from The University of Alabama are very successful in major symphony orchestras, military bands and jazz, as freelancers, and as working music therapists.

Learn more about opportunities in this field at the Career Center.

**Music with a concentration in Arts Administration, BA**

Students should have a strong background in music, including performance experience on a major instrument or designated voice type.

An arts administration concentration within the baccalaureate degree program is available in the area of music. The option is designed to provide the student with a curriculum in music combined with a minor in business (p. 1208). The arts administration concentration prepares the student for management positions with orchestras, local and state arts councils, performing arts venues, artist agencies, and other
ARH 253  Survey Of Art II  3
ARH 254  Survey Of Art III  3
MUS 315  Mus Managemt Activity  2
MUS 427  Studies In Special Lit  3
MUS 490  Raising Money Dev Arts  2
MUS 461  History/Literature Jazz  3
NEW 490  Special Topics  3
TH 114  Intro To The Theatre  3
PHL 291  Aesthetics  3
UH 210  Honors Fine Arts  3
MUS 326  Arts Venues Management  2
MUS 407  Marketing the Arts  2

Credit Hours Subtotal: 35

Total Hours 72-75

1 MUS 315 Mus Managemt Activity and MUS 490 Raising Money Dev Arts are recommended.

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor
This major requires the completion of a minor in general business, entrepreneurship, management or world business.

Additional Major Requirements
MUS 121 Introduction To Listening does not satisfy the fine arts (FA) general education requirement for music majors. Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

MUA Applied Courses
Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from:

MUA 170 & MUA 270
Harp (Majors) and Harp (Majors) 1-4
MUA 171 & MUA 271
Piano (Majors) and Piano (Majors) 1-4
MUA 172 & MUA 272
Organ (Majors) and Organ (Majors) 1-4
MUA 174 & MUA 274
Voice (Majors) and Voice (Majors) 0.5-4
MUA 175 & MUA 275
Violin (Majors) and Violin (Majors) 1-4
MUA 176 & MUA 276
Viola (Majors) and Viola (Majors) 1-4

MUA 177 & MUA 277
Cello (Majors) and Cello (Majors) 1-4
MUA 178 & MUA 278
String Bass (Majors) and String Bass (Majors) 1-4
MUA 179 & MUA 279
Flute (Majors) and Flute (Majors) 1-4
MUA 180 & MUA 280
Oboe (Majors) and Oboe (Majors) 1-4
MUA 181 & MUA 281
Bassoon (Majors) and Bassoon (Majors) 1-4
MUA 182 & MUA 282
Clarinet (Majors) and Clarinet (Majors) 1-4
MUA 183 & MUA 283
Saxophone (Majors) and Saxophone (Majors) 1-4
MUA 184 & MUA 284
Trumpet (Majors) and Trumpet (Majors) 1-4
MUA 185 & MUA 285
French Horn (Majors) and French Horn (Majors) 1-4
MUA 186 & MUA 286
Trombone (Majors) and Trombone (Majors) 1-4
MUA 187 & MUA 287
Euphonium (Majors) and Euphonium (Majors) 1-4
MUA 188 & MUA 288
Tuba (Majors) and Tuba (Majors) 1-4
MUA 189 & MUA 289
Percussion (Majors) and Percussion (Majors) 1-4
MUA 190 & MUA 290
Guitar (Majors) and Guitar (Majors) 1-4

MUA Ensemble Courses
Four semesters of ensembles should be chosen from the following courses:

MUA 150 Symphony Orchestra 1
MUA 250 Symphony Orchestra 1
MUA 350 Symphony Orchestra 1
MUA 450 Symphony Orchestra 1
MUA 152 Wind Ensemble 1
MUA 252 Wind Ensemble 1
MUA 352 Wind Ensemble 1
MUA 452 Wind Ensemble 1
MUA 153 Marching Band 1
MUA 253 Marching Band 1
MUA 353 Marching Band 1
MUA 453 Marching Band 1
MUA 154 Symphonic Band 1
MUA 254 Symphonic Band 1
MUA 354 Symphonic Band 1
MUA 454 Symphonic Band 1
MUA 156 Percussion Ensemble 1
MUA 256 Percussion Ensemble 1
MUA 356 Percussion Ensemble 1
MUA 456 Percussion Ensemble 1
MUA 158 Contemp Music Ensemble 1
Students earning the bachelor of arts (BA) degree must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements and other sufficient credits to total a minimum of 120 applicable semester hours.

### Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 217</td>
<td>Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUS 251</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Music History III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 307</td>
<td>Form And Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 497</td>
<td>Senior Project</td>
<td>1</td>
</tr>
<tr>
<td>MUS electives 300 or 400 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUA applied 100 level (two semesters)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUA applied 200 level (two semesters)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUA ensembles (four semesters)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUA 010</td>
<td>Music Convocation (five semesters)</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>49</td>
<td></td>
</tr>
</tbody>
</table>

### Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

### Ancillary Courses

The music major does not require ancillary courses.

### Required Minor

This major requires the completion of a minor.

### Additional Major Requirements

MUS 121 Introduction To Listening does not satisfy the fine arts (FA) general education requirement for music majors. At the beginning of the senior year, the student, in consultation with the music adviser, selects a faculty adviser for the senior project, which is usually a substantial paper on a historical or theoretical topic. The topic and format of the project must be approved by the project adviser. The project must be turned in one month before the last day of classes in the final semester. It will be examined by a faculty committee selected by the project adviser. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.
MUA Applied Courses

Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Instrument</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 170 &amp; MUA 270</td>
<td>Harp (Majors) and Harp (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 171 &amp; MUA 271</td>
<td>Piano (Majors) and Piano (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 172 &amp; MUA 272</td>
<td>Organ (Majors) and Organ (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 174 &amp; MUA 274</td>
<td>Voice (Majors) and Voice (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 175 &amp; MUA 275</td>
<td>Violin (Majors) and Violin (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 176 &amp; MUA 276</td>
<td>Viola (Majors) and Viola (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 177 &amp; MUA 277</td>
<td>Cello (Majors) and Cello (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 178 &amp; MUA 278</td>
<td>String Bass (Majors) and String Bass (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 179 &amp; MUA 279</td>
<td>Flute (Majors) and Flute (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 180 &amp; MUA 280</td>
<td>Oboe (Majors) and Oboe (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 181 &amp; MUA 281</td>
<td>Bassoon (Majors) and Bassoon (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 182 &amp; MUA 282</td>
<td>Clarinet (Majors) and Clarinet (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 183 &amp; MUA 283</td>
<td>Saxophone (Majors) and Saxophone (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 184 &amp; MUA 284</td>
<td>Trumpet (Majors) and Trumpet (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 185 &amp; MUA 285</td>
<td>French Horn (Majors) and French Horn (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 186 &amp; MUA 286</td>
<td>Trombone (Majors) and Trombone (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 187 &amp; MUA 287</td>
<td>Euphonium (Majors) and Euphonium (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 188 &amp; MUA 288</td>
<td>Tuba (Majors) and Tuba (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 189 &amp; MUA 289</td>
<td>Percussion (Majors) and Percussion (Majors)</td>
<td>4</td>
</tr>
<tr>
<td>MUA 190 &amp; MUA 290</td>
<td>Guitar (Majors) and Guitar (Majors)</td>
<td>4</td>
</tr>
</tbody>
</table>

MUA Ensemble Courses

Four semesters of ensemble should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Ensemble Type</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 150</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 350</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 450</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 152</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 252</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 352</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 452</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 153</td>
<td>Marching Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 253</td>
<td>Marching Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 353</td>
<td>Marching Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 453</td>
<td>Marching Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 254</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 354</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 454</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 156</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 256</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 356</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 456</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 158</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 258</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 358</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 458</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 159</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 259</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 359</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 459</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 160</td>
<td>Opera Workshop</td>
<td>1</td>
</tr>
<tr>
<td>MUA 260</td>
<td>Opera Workshop</td>
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</tr>
<tr>
<td>MUA 360</td>
<td>Opera Workshop</td>
<td>1</td>
</tr>
<tr>
<td>MUA 460</td>
<td>Opera Workshop</td>
<td>1</td>
</tr>
<tr>
<td>MUA 161</td>
<td>Opera Production</td>
<td>1</td>
</tr>
<tr>
<td>MUA 261</td>
<td>Opera Production</td>
<td>1</td>
</tr>
<tr>
<td>MUA 361</td>
<td>Opera Production</td>
<td>1</td>
</tr>
<tr>
<td>MUA 461</td>
<td>Opera Production</td>
<td>1</td>
</tr>
<tr>
<td>MUA 162</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 262</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 362</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 462</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 163</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 263</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 363</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 463</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 167</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUA 267</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUA 367</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUA 467</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
</tbody>
</table>

Types of Jobs Accepted

Completion of this degree program prepares the student for many avenues within the professional world associated with music. Learn more about opportunities in this field at the Career Center

Music, Minor

Admission into the Minor

All students must pass an audition in order to declare a minor in music. To schedule an audition, students must fill out a separate application
to the School of Music, which is available online at music.ua.edu/undergraduates/auditions.

Auditions typically take place between January and March prior to fall enrollment. Upon successful audition, students are expected to declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

### Minor Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 121</td>
<td>Introduction To Listening</td>
<td>3</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUA 010</td>
<td>Music Convocation (four semesters)</td>
<td>0</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 11

### Electives

Select four hours of MUA applied 100 level (four semesters) 1
Select four hours of MUA ensembles (four semesters) 2
Select six hours of upper division (300 or 400 level) MUS electives

Credit Hours Subtotal: 14

Total Hours 25

1 Students must earn a minimum of four hours and four semesters in a single instrument or voice.
2 Students must complete four semesters of ensembles.

### Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

### Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

### Ancillary Courses

This minor does not require ancillary courses.

### Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

### Single Instrument or Voice Courses

Students must earn a minimum of four hours and four semesters in a single instrument or voice chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 129</td>
<td>Guitar (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 131</td>
<td>Piano (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 132</td>
<td>Organ (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 133</td>
<td>Harpsichord (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 134</td>
<td>Voice (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 135</td>
<td>Violin (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 136</td>
<td>Viola (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 137</td>
<td>Cello (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 138</td>
<td>String Bass (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 139</td>
<td>Flute (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 140</td>
<td>Oboe (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 141</td>
<td>Bassoon (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 142</td>
<td>Clarinet (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 143</td>
<td>Saxophone (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 144</td>
<td>Trumpet (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 145</td>
<td>French Horn (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 146</td>
<td>Trombone (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 147</td>
<td>Euphonium (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 148</td>
<td>Tuba (Non-Majors)</td>
<td>1</td>
</tr>
<tr>
<td>MUA 149</td>
<td>Percussion (Non-Majors)</td>
<td>1</td>
</tr>
</tbody>
</table>

### Ensemble Courses

Four semesters of ensembles should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 150</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 250</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUA 152</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 252</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 154</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 254</td>
<td>Symphonic Band</td>
<td>1</td>
</tr>
<tr>
<td>MUA 156</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 256</td>
<td>Percussion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 158</td>
<td>Contemp Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 258</td>
<td>Contemporary Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 159</td>
<td>Jazz Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUA 259</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUA 162</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 262</td>
<td>University Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUA 163</td>
<td>University Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUA 263</td>
<td>University Singers</td>
<td>1</td>
</tr>
</tbody>
</table>

### New College

The major objective of New College is to create an opportunity for a highly individualized education that allows students to draw from the resources of all University classes and faculty. The New College curriculum has two principle elements. The first element is the depth study, which is the student’s area of concentration. Students are also expected to develop their own independent studies and out-of-class learning experiences to enhance their understanding of the subject of their depth studies and to add to their learning experiences. The second element is the general education component, which provides students with opportunities to integrate humanities, social sciences and natural sciences beyond their depth study. The interdisciplinary experience in New College affords excellent preparation for students with ambitions for graduate study or for professional careers in various areas, including law and medicine.

- Majors
  - Interdisciplinary Studies (BA) (p. 1035)
  - Interdisciplinary Studies (BS) (p. 1036)
• Minors
  • Civic Engagement and Leadership (p. 1033)
  • Natural Resources (p. 1038)
  • Student Designed (p. 1039)
  • Interdisciplinary Environmental Studies (p. 1034)

NEW100 Intro Interdisc Integratv Stdy
FCMP
Hours 1-2
Designed to help New College students become more informed about the University and about New College so that they may maximize their opportunities in their undergraduate programs through New College. Enrollment is limited to New College students.

Freshman Compass
NEW120 Inclusive Leadership Through Sustained Dialogue
Hours 1
In an increasingly globalized world, leaders need the skills to resolve conflict across difference. Sustained Dialogue is a five-stage dialogue-to-action model that requires participants to take the time to focus first on transforming change-blocking relationships, and then on solving problems. This course will explore the theory behind this innovative model and ultimately consider how Sustained Dialogue applies to visions for positive change at the University of Alabama. Participants will receive an introduction to the Sustained Dialogue model and then meet in dialogue groups weekly to work through the 5 stages to address specific issues on campus.
Prerequisite(s): NONE

Civic Engagement and Leadership,
Minor
The Minor in Civic Engagement and Leadership is administered by New College and the Department of Philosophy with the Department of Military Science.
New College
201 Lloyd Hall
as.ua.edu/nc
newcollege@as.ua.edu
Department of Philosophy
336 ten Hoor Hall
as.ua.edu/philosophy
philosophy@as.ua.edu

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW 237 or Cooperation &amp; Conflict</td>
<td>4</td>
</tr>
<tr>
<td>NEW 238 Honors: Coop. &amp; Conflict</td>
<td></td>
</tr>
<tr>
<td>PHL 292 or Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 221 Honors Introduction to Ethics</td>
<td></td>
</tr>
<tr>
<td>Elective courses (two approved from 300 or 400 level and two approved from 100-400 level)</td>
<td>12</td>
</tr>
<tr>
<td>MIL or AFS Secondary Courses</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>19</td>
</tr>
</tbody>
</table>

Elective Courses
Students must earn 12 hours of courses chosen from the following. Another course may be substituted with prior approval from Dr. Natalie Adams, Director, New College. Courses that count towards your major field of study cannot be used to fulfill the requirements for a minor.

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAST/WS 352 Social Inequality</td>
</tr>
<tr>
<td>AAST 395 Special Topics (Defining Diversity on Campus)</td>
</tr>
<tr>
<td>COM 122 Critical Decision Making</td>
</tr>
<tr>
<td>COM 225 Small Group Communicatn</td>
</tr>
<tr>
<td>COM 460 Group Leadership</td>
</tr>
<tr>
<td>HY 330 Civil Rights Movement</td>
</tr>
</tbody>
</table>
NEW 120  Sustained Dialogue  1
NEW 270  Leader Soc Justice Activism  3
NEW 273  Social Issues & Ethics  4
NEW 310  Independent Study (310-322)  1-15
NEW 436  Public Leadership  4
NEW 472  Social Change  4
NEW 490  Special Topics (Nonprofit Management)  3
NEW 490  Special Topics (American Law)  4
PHL 100  Intro To Philosophy  3
PSC 335  Soc Movements & Cont Politics  3
WS 310  Special Topics (Redefining Diversity on Campus)  3
WS 352  Social Inequality  3

**MIL and AFS Secondary Courses**

Qualified ROTC Candidates may complete secondary courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFS 350</td>
<td>USAF Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFS 360</td>
<td>USAF Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFS 470</td>
<td>National Security Affair</td>
<td>3</td>
</tr>
<tr>
<td>AFS 480</td>
<td>National Security Affair</td>
<td>3</td>
</tr>
<tr>
<td>MIL 110</td>
<td>Leadership/Natl Security</td>
<td>1</td>
</tr>
<tr>
<td>MIL 120</td>
<td>Foundatn Leadership Team Develm</td>
<td>1</td>
</tr>
<tr>
<td>MIL 210</td>
<td>Basic Leadership Skills</td>
<td>2</td>
</tr>
<tr>
<td>MIL 220</td>
<td>Military Leadership Skills</td>
<td>2</td>
</tr>
<tr>
<td>MIL 310</td>
<td>Small Unit Tactical Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MIL 320</td>
<td>Advanced Leadership Skills</td>
<td>3</td>
</tr>
<tr>
<td>MIL 410</td>
<td>Military Science IV</td>
<td>3</td>
</tr>
<tr>
<td>MIL 420</td>
<td>Military Science IV</td>
<td>3</td>
</tr>
</tbody>
</table>

**Grade Point Average**

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

**Ancillary Courses**

This minor does not require ancillary courses.

**Additional Minor Requirements**

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

**Interdisciplinary Environmental Studies, Minor**

The interdisciplinary environmental studies minor is administered by New College and the Department of Geography.

Department of Geography, 202 Farrah Hall
geography.ua.edu
geography@as.ua.edu

New College
201 Lloyd Hall
https://nc.as.ua.edu
newcollege@as.ua.edu

The objective of the interdisciplinary environmental studies minor is to provide undergraduates with interdisciplinary training in environmental studies. Drawing on the humanities, the social sciences, and the natural sciences, this minor acquaints students with current environmental problems and the tools of analysis to identify causes and solutions. Contact Dr. Mike Steinberg, mksteinberg@ua.edu, for information.

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

The minor in interdisciplinary environmental studies requires the successful completion of a minimum of 17 semester hours including the following:

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>4</td>
</tr>
<tr>
<td>NEW 215 Perspec. on Env. Literature</td>
<td></td>
</tr>
<tr>
<td>NEW 230 Environmental Studies</td>
<td></td>
</tr>
<tr>
<td>NEW 243 Interdisciplinary Sciences</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-14</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>17-18</td>
</tr>
</tbody>
</table>

**Electives**

Students must earn 10–11 hours chosen from (but not limited to) the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 385</td>
<td>Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BSC 482</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>EC 480</td>
<td>Econ of Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO 105</td>
<td>Sustainable Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEO 363</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 401</td>
<td>Paleoclimatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 202</td>
<td>The Water Planet</td>
<td>4</td>
</tr>
<tr>
<td>GY 302</td>
<td>Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 317</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GY 339</td>
<td>Natural Resource Envirmn Plang</td>
<td>3</td>
</tr>
<tr>
<td>GY 363</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GY 404</td>
<td>Physical Geography Seast Us</td>
<td>3</td>
</tr>
<tr>
<td>GY 409</td>
<td>Forest History and Restoration</td>
<td>4</td>
</tr>
<tr>
<td>GY 410</td>
<td>National Parks</td>
<td>3</td>
</tr>
<tr>
<td>GY 413</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GY 420</td>
<td>Remote Sensing I</td>
<td>4</td>
</tr>
<tr>
<td>GY 430</td>
<td>Intro Geographic Info Systems</td>
<td>1,3</td>
</tr>
<tr>
<td>GY 439</td>
<td>GIS Programming</td>
<td>4</td>
</tr>
<tr>
<td>GY 453</td>
<td>Environment &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>GY 472</td>
<td>Soil Science</td>
<td>4</td>
</tr>
</tbody>
</table>
requirements, the following New College requirements and other sufficient credits to total 120 applicable semester hours.

New College requires the successful completion of the following courses and activities:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW 100</td>
<td>Intro Interdisc Integratv Stdy</td>
<td>2</td>
</tr>
<tr>
<td>NEW 495</td>
<td>Capstone Sem &amp; Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>NEW electives 200 level and above</td>
<td>8-12</td>
<td></td>
</tr>
<tr>
<td>NEW electives 400 level and above</td>
<td>6-12</td>
<td></td>
</tr>
</tbody>
</table>

Individualized depth study: 33-39

Total Hours: 51-67

1 Courses that satisfy the general education requirement will fulfill the humanities, social sciences, natural sciences, and mathematics requirements. Students pursuing a BS degree are required to complete MATH 125 Calculus I or MATH 145 Honors Calculus I or higher.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Office of University Registrar explanation of grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses must be earned on this campus.

**Ancillary Courses**

Students pursuing a bachelor of science (BS) degree must also complete MATH 125 Calculus I or MATH 145 Honors Calculus I.

**Required Minor**

Students complete a New College depth study and are not required to complete a minor program of study.

**Additional New College Requirements**

Students are expected to complete a minimum of 42 semester hours while enrolled in New College. In addition, students are required to undergo a third-year program review. As part of their general education experience, New College requires students to complete six to eight hours of core designated foreign language courses.

**Integrative Seminars**

The five seminars introduce students to the major areas of liberal arts study in one of three integrative themes: environment, sustainability and conservation; creativity and culture; and social problems and social change. The seminars required for graduation are arranged in two levels. The level I seminars are designed for entering students (usually freshmen and sophomores) while the level II seminars are designed for upper-level students. All students must complete five seminars with at least one seminar in each theme, including two level I seminars from different themes and two level II seminars in any theme. A minimum grade of C- is required for each integrative seminar. Transfer credit cannot be applied to seminar requirements. All five required seminars must be taken through New College.
Out-of-class Learning/Independent Study

New College has a strong commitment to provide students opportunities to pursue their academic interests outside of the classroom through out-of-class learning experiences for credit. In these out-of-class learning/independent study experiences, an agreement (or contract) is made among the student, the project director and New College. The contract is a clear, concise statement that includes the course area, topic or problem the student intends to study, along with the bibliography, plans for evaluating the study and the anticipated outcomes of the study. New College students are encouraged to take at least one Independent Study as part of their depth study.

New College LifeTrack

LifeTrack is a blended distance program. Most courses are online and independent study. There are some on-campus course experiences as well. LifeTrack offers a B.A. or B.S. in Interdisciplinary Studies. Students must be 25 years or older; have a high school diploma or a GED score of 50 or higher if taken prior to January 2002 and 500 or higher if taken after January 2002; have educational goals attainable through the LifeTrack program; be able to assume the primary responsibility for learning; and have a cumulative GPA of 2.0 or higher on all previous college work. New College and the College of Continuing Studies have a cumulative GPA of 2.00 or higher on all previous college work.

Admission into the Program

Interested students should apply for admission to The University of Alabama and designate New College LifeTrack as the program type. For more information concerning admissions procedures, write to The University of Alabama, New College LifeTrack, Box 870388, Tuscaloosa, AL 35487-0388; call (205) 348-6000; email aoinfo@ccs.ua.edu; or visit learnon.ua.edu.

Degree Requirements

Students earning a bachelor of arts (BA) degree or bachelor of science (BS) degree must complete a minimum of 120 applicable semester hours that include the following elements:

- Foundations of Adult Learning Seminar 3
- LifeTrack Writing Skills and Strategies 3
- Humanities 1 12
- Communication skills 6
- Social sciences 1 12
- Natural sciences 1 8
- Mathematics 1 3
- Depth study 30
- Senior project 8
- Electives 35
- Total Hours 120

1 Courses that satisfy the general education requirement will fulfill the humanities, social sciences, natural sciences, and mathematics requirements. Students pursuing a BS degree are required to complete MATH 125 Calculus I or MATH 145 Honors Calculus I or higher.

Additional Major Requirements

The LifeTrack Program (formerly EXD Program) differs in purpose, scope and specificity from degrees designating professional certification. For this reason, no more than 30 semester hours of credit from a professional school may apply toward a degree through the LifeTrack Program.

Upper-level Residency

Following completion of the Foundations of Adult Learning Seminar, LifeTrack program students must earn a minimum of 30 semester hours of University of Alabama credit. Except for the required three-day Foundations of Adult Learning Seminar, students do not have to be present on The University of Alabama campus. Residency is fulfilled by working under the guidance of University of Alabama faculty through distance learning.

Unlimited. Students continue to professional and graduate schools, begin their own businesses, and work in their chosen fields of concentration.

Types of Jobs Accepted

business and industry, education, arts management, sports marketing and recruiting, Peace Corps, Teach for America, Americorps, NGOs, foreign service, and opportunities throughout the non-profit and for-profit sectors

Jobs of Experienced Alumni

audio engineers, physicians, artists, attorneys, musicians, dentists, physical therapists, professors, farmers, real estate developers, land managers, sports scouts, directors of non-profit organizations, missionaries, teachers, business owners, Peace Corps, Teach for America, Americorps, NGOs, foreign service, and positions throughout the non-profit and for-profit sectors

Learn more about opportunities in this field at the Career Center

Interdisciplinary Studies, BS

New College’s emphasis on student choice and responsibility promotes the creativity, flexibility, and adaptability necessary for effective participation in the emergent communities of the future.

Admission into the Program

Applications are available at http://nc.as.ua.edu/degree-program/applying-to-new-college/. The admission process is separate from and in addition to admission to The University of Alabama. Two factors are taken into consideration when making a decision for admission: the degree of motivation and serious intellectual independence exhibited by the applicant and the potential for the University to meet the applicant’s academic goals. For details on the admissions process, please refer to the New College website.

Students complete the bachelor of arts (BA) or the bachelor of science (BS) degree depending on the area in which the depth study is done. Students also complete all University, College of Arts and Sciences and New College requirements. This includes the general education requirements, the following New College requirements and other sufficient credits to total 120 applicable semester hours.

New College requires the successful completion of the following courses and activities:

- NEW 100 Intro Interdisc Integratv Stdy 2
- NEW 495 Capstone Sem & Senior Project 2
Out of class Learning/Independent Study

New College has a strong commitment to provide students opportunities to pursue their academic interests outside of the classroom through out-of-class learning experiences for credit. In these out-of-class learning/ independent study experiences, an agreement (or contract) is made among the student, the project director and New College. The contract is a clear, concise statement that includes the course area, topic or problem the student intends to study, along with the bibliography, plans for evaluating the study and the anticipated outcomes of the study. New College students are encouraged to take at least one Independent Study as part of their depth study.

New College LifeTrack

LifeTrack is a blended distance program. Most courses are online and independent study. There are some on-campus course experiences as well. LifeTrack offers a B.A. or B.S. in Interdisciplinary Studies. Students must be 25 years or older; have a high school diploma or a GED score of 50 or higher if taken prior to January 2002 and 500 or higher if taken after January 2002; have educational goals attainable through the LifeTrack program; be able to assume the primary responsibility for learning; and have a cumulative GPA of 2.00 or higher on all previous college work. New College and the College of Continuing Studies offer the LifeTrack program. 305 Martha Parham Hall

learnon.ua.edu

bamabydistance.ua.edu

Admission into the Program

Interested students should apply for admission to The University of Alabama and designate New College LifeTrack as the program type. For more information concerning admissions procedures, write to The University of Alabama, New College LifeTrack, Box 870388, Tuscaloosa, AL 35487-0388; call (205) 348-6000; email aoinfo@ccs.ua.edu; or visit learnon.ua.edu.

Degree Requirements

Students earning a bachelor of arts (BA) degree or bachelor of science (BS) degree must complete a minimum of 120 applicable semester hours that include the following elements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Adult Learning Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LifeTrack Writing Skills and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>12</td>
</tr>
<tr>
<td>Communication skills</td>
<td>6</td>
</tr>
<tr>
<td>Social sciences</td>
<td>12</td>
</tr>
<tr>
<td>Natural sciences</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Depth study</td>
<td>30</td>
</tr>
<tr>
<td>Senior project</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>35</td>
</tr>
<tr>
<td>Total Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

Courses that satisfy the general education requirement will fulfill the humanities, social sciences, natural sciences, and mathematics requirements. Students pursuing a BS degree are required to complete MATH 125 Calculus I or MATH 145 Honors Calculus I or higher.
present on The University of Alabama campus. Residency is fulfilled by working under the guidance of University of Alabama faculty through distance learning.

Unlimited. Students continue to professional and graduate schools, begin their own businesses, and work in their chosen fields of concentration.

### Types of Jobs Accepted

business and industry, education, arts management, sports marketing and recruiting, Peace Corps, Teach for America, Americorps, NGOs, foreign service, and opportunities throughout the non-profit and for-profit sectors

### Jobs of Experienced Alumni

audio engineers, physicians, artists, attorneys, musicians, dentists, physical therapists, professors, farmers, real estate developers, land managers, sports scouts, directors of non-profit organizations, missionaries, teachers, business owners, Peace Corps, Teach for America, Americorps, NGOs, foreign service, and positions throughout the non-profit and for-profit sectors

Learn more about opportunities in this field at the Career Center

### Natural Resources, Minor

The natural resources minor has been developed for students interested in the guiding principles of land stewardship and economic sustainability. Students can develop an appreciation for the ecological diversity of Alabama and gain an understanding of the historical importance of natural resources in the economic development of Alabama. Courses in the minor will address the impact of changes in lifestyles and the economic base of the state as well as the implications for land management.

### Admission into the Minor

Students are expected to meet with Dr. Carl Williams (carl.williams@ua.edu), NRM Coordinator, before formally declaring a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

The minor in natural resources includes tracks for students who major in biological sciences and for those who are pursuing other majors outside of biological sciences.

### Biology Majors

The Natural Resources minor for biology majors requires the successful completion of the following 18 semester hours:

<table>
<thead>
<tr>
<th>Required Foundational Course</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 340 Principles of Nat. Res. Cons.</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specialty Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>BSC 303 Field Zoology</td>
<td></td>
</tr>
<tr>
<td>BSC 314 Dendrology</td>
<td></td>
</tr>
<tr>
<td>BSC 415 Wetland Ecology</td>
<td></td>
</tr>
<tr>
<td>BSC 428 Biology Of Fishes</td>
<td></td>
</tr>
<tr>
<td>BSC 475 General Entomology</td>
<td></td>
</tr>
<tr>
<td>BSC 480 Plant Ecology</td>
<td></td>
</tr>
<tr>
<td>BSC 497 Special Topics (Forestry)</td>
<td></td>
</tr>
<tr>
<td>BSC 497 Special Topics (Wildlife Management)</td>
<td></td>
</tr>
</tbody>
</table>
NEW 230  Environmental Studies
NEW 365  Environmental Policy

Practicum Courses
Select at least one of the following:  
2
BSC 398  Undergraduate Research
BSC 497  Special Topics (Biological Sciences Internship)
GY 483  Environment Science Internship
GY 494  Forest Measurement & Methods
NEW 310  Independent Study (Internship)

Total Hours  19

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Prerequisites for all BSC courses at the 300-level and 400-level must be passed with a grade of at least C-.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of Philosophy
The study of philosophy fosters original thought, logical precision, an open-minded attitude toward new and unusual ideas, and a commitment to responsible criticism. The department offers a standard major in philosophy that culminates in the Bachelor of Arts degree. It offers a standard minor as well. Students also have the option of completing instead a specialized major or minor: the jurisprudence specialization, the philosophy and medicine specialization, or the mind-brain specialization.

- Major
  - Philosophy (BA) (p. 1040)
- Minor
  - Philosophy (p. 1042)

Student Designed, Minor
New College
201 Lloyd Hall
as.ua.edu/nc
newcollege@as.ua.edu
The student-designed minor originates with a student's interest in issues or questions that cross disciplinary lines.

Admission into the Minor
Proposals for the minor are developed by the student in consultation with faculty and/or New College Director. Proposals require a clearly defined rationale and a tentative set of courses (including one activity that clearly integrates the program of study).

The student-designed minor requires successful completion of the following 21 semester hours. Students pursuing a Self Design Minor are encouraged to take one New College course as part of their minor.

| Hours | Electives 100 or 200 level  
|-------|----------------------------|
| 9     | Electives 300 or 400 level  
| 12    | Total Hours                  |

1 Coursework should be selected from at least two disciplines and from a set of courses based on the approved proposal.

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of Philosophy
The study of philosophy fosters original thought, logical precision, an open-minded attitude toward new and unusual ideas, and a commitment to responsible criticism. The department offers a standard major in philosophy that culminates in the Bachelor of Arts degree. It offers a standard minor as well. Students also have the option of completing instead a specialized major or minor: the jurisprudence specialization, the philosophy and medicine specialization, or the mind-brain specialization.

- Major
  - Philosophy (BA) (p. 1040)
- Minor
  - Philosophy (p. 1042)

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201 Lloyd Hall
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Admission into the Minor
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The student-designed minor requires successful completion of the following 21 semester hours. Students pursuing a Self Design Minor are encouraged to take one New College course as part of their minor.

| Hours | Electives 100 or 200 level  
|-------|----------------------------|
| 9     | Electives 300 or 400 level  
| 12    | Total Hours                  |

1 Coursework should be selected from at least two disciplines and from a set of courses based on the approved proposal.
Philosophy majors should enjoy thinking abstractly and deeply about those questions that Bertrand Russell called “ultimate questions” — questions about the coherence or reasonableness of concepts and presuppositions that most take for granted. The ultimate questions addressed in philosophy classes include the following questions:

Are humans purely physical beings, or does consciousness involve nonphysical phenomena? Do humans have free will? Does God exist? Are there objective moral facts, or is morality relative to one’s culture? What moral obligations, if any, does one have to oneself and to others? Is there any justification for government? If so, to what extent is governmental power justified?

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The philosophy department honors program is designed for students who wish to pursue a philosophical topic further than the seminar format permits. It also provides recognition for both having done a greater proportion of classes at the advanced level and for sustained outstanding achievement in all courses. Students graduating with honors in philosophy must complete 36 hours in philosophy with 18 hours at the 300- or 400-level and achieve a minimum GPA of 3.5 in all philosophy courses and at least a cumulative GPA of 3.3. A philosophy honors student must also write a senior essay on a philosophical topic and defend it during an oral examination. A student who is enrolled in the University Honors Program can count his or her senior essay in philosophy as completing the honors thesis in that program.

Students earning the bachelor of arts (BA) degree with a major in philosophy must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

**Areas**

**Area 1: Value**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 221</td>
<td>Honors Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 223</td>
<td>Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 230</td>
<td>Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 231</td>
<td>Social Justice in Practice</td>
<td>1</td>
</tr>
<tr>
<td>PHL 234</td>
<td>Social Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 240</td>
<td>Philosophy and the Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 241</td>
<td>Phil. Issues in Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 242</td>
<td>Phil. Issues in Civil Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 243</td>
<td>Phil. Issues in Const. Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 256</td>
<td>Philosophy of Sport</td>
<td>3</td>
</tr>
<tr>
<td>PHL 291</td>
<td>Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 292</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 332</td>
<td>Theories of Justice</td>
<td>3</td>
</tr>
<tr>
<td>PHL 333</td>
<td>Global Justice</td>
<td>3</td>
</tr>
<tr>
<td>PHL 341</td>
<td>Law and Morality</td>
<td>3</td>
</tr>
<tr>
<td>PHL 343</td>
<td>PHL Issues-International Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 420</td>
<td>Special Studies in Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 440</td>
<td>Seminar on Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 448</td>
<td>Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>PHL 455</td>
<td>Philosophy through Documentary</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area 2: Language, Epistemology, Mind and Metaphysics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 260</td>
<td>Mind and Nature</td>
<td>3</td>
</tr>
<tr>
<td>PHL 264</td>
<td>Introduction to Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 281</td>
<td>Intro. to Phil. of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHL 286</td>
<td>Intro to Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHL 360</td>
<td>Philosophy of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHL 362</td>
<td>Mind, Language, and Reality</td>
<td>3</td>
</tr>
<tr>
<td>PHL 364</td>
<td>Philosophy of Cog. Sci.</td>
<td>3</td>
</tr>
<tr>
<td>PHL 366</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 370</td>
<td>Epistemology</td>
<td>3</td>
</tr>
<tr>
<td>PHL 381</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHL 387</td>
<td>Philosophy and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>PHL 428</td>
<td>Metaethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 489</td>
<td>Philosophy of Medicine</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 195</td>
<td>Intro Deductive Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHL 106</td>
<td>Honors Deductive Logic</td>
<td>3</td>
</tr>
</tbody>
</table>
Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses
This major does not require ancillary courses.

Required Minor
This major requires the completion of a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Mind-Brain Specialization
The Mind-Brain Specialization is designed for students who are interested in philosophical questions about thought, consciousness, knowledge, and the relationship between the mind and the physical world. Students in psychology, communication, English, computer science and anthropology will find that the Mind-Brain Specialization makes philosophy an attractive second major.

Completion of the Mind-Brain specialization will be noted on the student’s transcript.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 195 or Intro Deductive Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHL 106 Honors Deductive Logic</td>
<td></td>
</tr>
<tr>
<td>PHL 211 Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 212 Early Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 260 Mind and Nature</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 12

Electives
Select 12 hours of PHL Mind &; Brain electives 1 | 12
Select any additional six hours of PHL courses that include at least one Value course | 6

Credit Hours Subtotal: 18

Total Hours | 30

While anyone can take these classes (subject to applicable prerequisites), if you are interested in completing either the specialized major or minor, contact us at phillaw@ua.edu so that you can be put on a list of students to be contacted with relevant information. Students completing the specialized major will receive a notation on their transcript. Also, on the basis of their performance in these classes, students completing the specialized major are eligible for The Norvin Richards Award in Philosophy and the Law.

Philosophy & Medicine Specialization
The Philosophy and Medicine Specialization is a series of courses introducing topics, issues, questions and problems associated the practice of medicine. While this concentration is designed for those who are planning for a career in the medical fields, it is open to any student with an interest in medicine.

Completion of the Philosophy and Medicine specialization will be noted on the student’s transcript.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 195 or Intro Deductive Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHL 106 Honors Deductive Logic</td>
<td></td>
</tr>
<tr>
<td>PHL 211 Ancient Philosophy</td>
<td></td>
</tr>
</tbody>
</table>
PHL 212  Early Modern Philosophy  3
PHL 423  Seminar in Medical Ethics  3
PHL 489  Philosophy of Medicine  3

Electives

PHL 386 or  Philosophy of Science  3
PHL 488  Philosophy of Mental Health  3

Select 3 hours at 300-400 level PHL courses  3
Select 9 additional hours of any level PHL courses  9

Credit Hours Subtotal:  30

A few graduates are now themselves professors of philosophy; but most years, no major pursues graduate work in philosophy. Those who seek advanced degrees pursue degrees in fields related to their second majors or in law, medicine, divinity, or business. Other majors use their analytic skills to forge careers in education, information technology, finance, management, and writing.

Types of Jobs Accepted
Recent graduates include a number of law students, several medical students and seminary students, and also graduate students in American studies, German, public administration, public health, and business. In addition to several in business and in the military, others are employed as teachers, computer consultants, and web designers.

Jobs of Experienced Alumni
Philosophy alumni include many attorneys, a banker, a chef, a chemical engineer, a CIA employee, information technology specialists, a graphic designer, ministers, musicians, physicians, professors (of philosophy, mathematics, English, and theology), a State Department employee, web designers, and writers.

Learn more about opportunities in this field at the Career Center

Philosophy, Minor

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Electives

Select six hours of PHL electives 300 or 400 level  6
Select 12 hours of PHL electives  12

Total Hours  18

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Department of Physics and Astronomy
The Department of Physics and Astronomy offers major and minor programs in physics and a minor in astronomy. The Department of Physics and Astronomy also has a second major curriculum for engineering majors.

• Major
  • Physics (BS) (p. 1044)

• Minors
  • Physics (p. 1046)
  • Astronomy (p. 1043)

Physics Major for College of Engineering Students
The Department of Physics and Astronomy also has a second major curriculum for engineering majors. This combination of fundamental and applied physics can be highly advantageous when the graduate enters the job market. For more information, contact the Department of Physics and Astronomy.

AY101 Intro To Astronomy

N

Hours 3
This course surveys the development of our current understanding of the Universe, including our Solar System, exoplanets, stars and stellar evolution (including white dwarfs, neutron stars, black holes, and supernovae), galaxies and cosmology (dark matter, dark energy, the Big Bang, the accelerating universe, supermassive black holes), and life in the Universe. NOTE: If the student plans to apply AY 101 toward satisfaction of the N requirement of the University Core Curriculum, AY 102 must also be taken.

Natural Science

PH101 General Physics I

N

Hours 4
Lectures and laboratory. An algebra-based introductory course including classical mechanics and thermodynamics. Topics include: kinematics, Newtonian dynamics, conservation of energy and momentum, rotational motion, oscillations and waves, kinetic theory of gases, and thermodynamics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.

Prerequisite(s): MATH 113 or MATH 115 or MATH 125 or MATH 145

Natural Science

View All Courses
Faculty
Chair and Professor
LeClair, Patrick R.

Professors
Piepke, Andreas G.
White, Raymond E. III
Stancu, Ion
Busenitz, Jerome K.
Buta, Ronald J.
Harms, Benjamin C.
Keel, William C.
Mankey, Gary J.
Schad, Rainer
Sarker, Sanjoy
Stern, Allen B.
Stern, Allen B.

Associate Professors
Mewes, Claudia
Henderson, Conor
Townsley, Dean
Irwin, Jimmy
Okada, Nobuchika
Rumerio, Paolo
Williams, Dawn R.

Assistant Professors
Hauser, Adam
Schwiete, Georg
Ostrovskiy, Igor
Bailin, Jeremy
Irwin, Jimmy
Kaminski, Matthias
Araujo, Paulo
Nair, Preethi
Tse, Wang-Kong

Teaching Faculty
Toale, Patrick A.
Silverstone, Murray

Astronomy, Minor
Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>AY 203</td>
<td>Observational Astronomy</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>AY 204</td>
<td>Solar System Astronomy</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>AY 206</td>
<td>Astron Beyond Solar Syst</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>8</td>
</tr>
</tbody>
</table>

Electives
Select six hours of AY electives 300 or 400 level and/or one of the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>PH 301</td>
<td>Mechanics I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 302</td>
<td>Intermediate Mechanics</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>6</td>
</tr>
</tbody>
</table>

Ancillary Courses
Grades in ancillary courses are not computed into the minor GPA. The minor in astronomy requires the successful completion of the following courses outside the minor:

Select one of the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>PH 105</td>
<td>General Physics W/Calc I 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 125</td>
<td>Honors Gen Ph W/Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 101</td>
<td>General Physics I 1</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>PH 106</td>
<td>General Physics W/Calc II 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 126</td>
<td>Honors Gen Ph W/Calculus II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 102</td>
<td>General Physics II 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 253</td>
<td>Intro Modern Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PH 255</td>
<td>and Modern Physics Lab</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Hours
26

1 General physics with calculus (PH 105 General Physics W/Calc I and PH 106 General Physics W/Calc II, or honors PH 125 Honors Gen Ph W/Calculus and PH 126 Honors Gen Ph W/Calculus II) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the minor courses before taking calculus.

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
Students majoring in physics may not apply the same physics courses toward both the physics major and the astronomy minor. They will still need 14 hours in the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics
W/Calc I, or PH 125 Honors Gen Ph W/Calculus, AND PH 102 General Physics II, PH 106 General Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus II. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.

**Physics, BS**

Physics majors are interested in understanding the nature of the physical universe. This interest may focus on more specific sub-areas, such as the physics of elementary particles; the properties of solid matter; or the evolution of stars, galaxies, and black holes. A successful physics major will develop analytical and problem-solving skills which will be useful in a wide range of possible applications and careers.

**Admission into the Major**

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Special Opportunities**

The department sponsors a local chapter of the Society of Physics Students. The department also has an honors program. Students are invited to apply for admission to the honors program in physics on the basis of performance in introductory courses. Physics majors participating in the Physics Honors Program must maintain a minimum 3.3 GPA in physics courses and a 3.0 cumulative GPA. Honors students must also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member in physics or astronomy and participate in an Honors Seminar course. Students can inquire at the Department of Physics and Astronomy office for further information.

Students earning the bachelor of science (BS) degree with a major in physics must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

The major in physics requires successful completion of 33–41 semester hours in one of four tracks: graduate school, astrophysics, biophysics or physics education.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in physics for all tracks requires the successful completion of 23–39 semester hours of ancillary courses.

**Required Minor**

This major requires the completion of a minor.

---

**Additional Major Requirements**

Students are responsible for ensuring that they have met all University, college, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

**Prerequisites**

In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics W/Calc I or PH 125 Honors Gen Ph W/Calculus, AND PH 102 General Physics II, PH 106 General Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus II. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.

**Graduate School Prep Track**

Primarily designed for students considering graduate work in physics, the graduate school track requires the successful completion of the following 36 semester hours:

<table>
<thead>
<tr>
<th>Select one of the following:</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 105 General Physics W/Calc I</td>
<td>4</td>
</tr>
<tr>
<td>PH 125 Honors Gen Ph W/Calculus</td>
<td></td>
</tr>
<tr>
<td>PH 101 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>PH 106 General Physics W/Calc II</td>
<td></td>
</tr>
<tr>
<td>PH 126 Honors Gen Ph W/Calculus II</td>
<td></td>
</tr>
<tr>
<td>PH 102 General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 253 Intro Modern Physics &amp; PH 255 and Modern Physics Lab</td>
<td>4</td>
</tr>
<tr>
<td>PH 302 Intermediate Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PH 331 Elect &amp; Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PH 332 Elect &amp; Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>PH 441 Quantum Structure of Matter I</td>
<td>3</td>
</tr>
<tr>
<td>PH 442 Quantum Structure of Matter II</td>
<td>3</td>
</tr>
<tr>
<td>PH 471 Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>PH 491 Advanced Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Select three hours of PH or AY elective 300 or 400 level</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 36

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in physics for the graduate school track requires the successful completion of the following courses outside the major:

| CH 101 or CH 117 | General Chemistry | 4 |
| CH 102 or CH 118 | General Chemistry | 4 |
| MATH 125 or MATH 145 | Calculus I | 4 |
| MATH 126 or MATH 146 | Honors Calculus I | 4 |
| MATH 227 or MATH 228 | Calculus III | 4 |

---
1 General physics with calculus (PH 105 General Physics W/Calc I and PH 106 General Physics W/Calc II, or honors PH 125 and PH 126 Honors Gen Ph W/Calculus II) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the major courses before taking calculus.

### Astrophysics Track

Primarily designed for students interested in astronomy or space science, the astrophysics track requires the successful completion of the following 41 semester hours:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>AY 203 Observational Astronomy</td>
</tr>
<tr>
<td>3</td>
<td>AY 204 Solar System Astronomy</td>
</tr>
<tr>
<td>3</td>
<td>AY 206 Astron Beyond Solar Syst</td>
</tr>
<tr>
<td>6</td>
<td>Select six hours of AY elective 300- or 400-level</td>
</tr>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>PH 331 Elect &amp; Magnetism I</td>
</tr>
<tr>
<td>3</td>
<td>PH 354 Intermediate Modern Physics</td>
</tr>
<tr>
<td>3</td>
<td>PH 491 Advanced Laboratory</td>
</tr>
<tr>
<td>6</td>
<td>Select six hours of PH elective 300 or 400 level</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 41

### Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the astrophysics track requires the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>CH 101 or General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 117 Honors General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 102 or General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 118 Honors General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>MATH 125 or Calculus I</td>
</tr>
<tr>
<td>4</td>
<td>MATH 145 Honors Calculus I</td>
</tr>
<tr>
<td>4</td>
<td>MATH 126 or Calculus II</td>
</tr>
<tr>
<td>4</td>
<td>MATH 146 Honors Calculus II</td>
</tr>
<tr>
<td>4</td>
<td>MATH 227 or Calculus III</td>
</tr>
<tr>
<td>3</td>
<td>MATH 247 Honors Calculus III</td>
</tr>
<tr>
<td>3</td>
<td>MATH 238 Appld Diff Equations I</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 23

### Physics Education Track

This track is open to all students but is primarily designed for those who want to teach in grades K-12. Please note that this track does not lead to teacher certification. Students interested in earning teacher certification must be admitted through the College of Education. For more information, visit here (p. 1105).

The physics education track requires the successful completion of the following 33 semester hours:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>4</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>3</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 33

### Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the physics education track requires the successful completion of the following courses outside the major:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>CH 101 or General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 117 Honors General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 102 or General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 118 Honors General Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>MATH 125 or Calculus I</td>
</tr>
<tr>
<td>4</td>
<td>MATH 145 Honors Calculus I</td>
</tr>
<tr>
<td>4</td>
<td>MATH 126 or Calculus II</td>
</tr>
<tr>
<td>4</td>
<td>MATH 146 Honors Calculus II</td>
</tr>
<tr>
<td>4</td>
<td>MATH 227 or Calculus III</td>
</tr>
<tr>
<td>3</td>
<td>MATH 247 Honors Calculus III</td>
</tr>
<tr>
<td>3</td>
<td>MATH 238 Appld Diff Equations I</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 23

Total Hours 56
General physics with calculus (PH 105 General Physics W/Calc I and PH 106 General Physics W/Calc II, or honors PH 125 Honors Gen Ph W/Calculus and PH 126 Honors Gen Ph W/Calculus II) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the major courses before taking calculus.

### Biophysics Track

Primarily designed for students planning a career in a health profession, the biophysics track requires successful completion of the following 33 semester hours:

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 105</td>
<td>General Physics W/Calc I</td>
<td>4</td>
</tr>
<tr>
<td>PH 125</td>
<td>Honors Gen Ph W/Calculus</td>
<td></td>
</tr>
<tr>
<td>PH 101</td>
<td>General Physics I</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 106</td>
<td>General Physics W/Calc II</td>
<td></td>
</tr>
<tr>
<td>PH 126</td>
<td>Honors Gen Ph W/Calculus II</td>
<td></td>
</tr>
<tr>
<td>PH 102</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PH 253</td>
<td>Intro Modern Physics &amp; PH 255</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and Modern Physics Lab</td>
<td></td>
</tr>
<tr>
<td>PH 301</td>
<td>Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PH 302</td>
<td>Intermediate Mechanics</td>
<td></td>
</tr>
<tr>
<td>PH 331</td>
<td>Elect &amp; Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PH 354</td>
<td>Intermediate Modern Physics</td>
<td></td>
</tr>
<tr>
<td>PH 411</td>
<td>Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PH 491</td>
<td>Advanced Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

Select six hours of PH elective 300 or 400 level

Credit Hours Subtotal: 33

### Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in physics for the biophysics track requires the successful completion of the following courses outside the major:

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 114</td>
<td>Principles Of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BSC 115</td>
<td>and Laboratory Biology I</td>
<td></td>
</tr>
<tr>
<td>BSC 118</td>
<td>Honors General Biology I</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 116</td>
<td>Principles Biology II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BSC 117</td>
<td>and Biology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>BSC 120</td>
<td>Honors Gen Biology II</td>
<td></td>
</tr>
<tr>
<td>CH 101 or</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 117</td>
<td>Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 102 or</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 118</td>
<td>Honors General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 231</td>
<td>Elem Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 232</td>
<td>Elem Organic Chem II</td>
<td>5</td>
</tr>
<tr>
<td>&amp; CH 237</td>
<td>and Elem Organic Chem Lab</td>
<td></td>
</tr>
<tr>
<td>MATH 125 or</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 145</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 126 or</td>
<td>Calculus II</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 33

A wide range of careers are available for people with physics degrees: academic careers in physics, astronomy, and engineering; research science in government laboratories; research and development in private industry; engineering; K-12 teaching; quantitative financial analysis for investment firms; medical research or practice; science journalism. The analytical skills developed in the course of taking a physics curriculum allow physics majors (on average) to have relatively high scores on the LSAT and MCAT admissions tests for law school and medical school. For more information, see http://www.aps.org/careers/physicists/.

### Types of Jobs Accepted

Most of our recent graduates go on to graduate school in physics, engineering, astronomy, mathematics, or education. Other recent graduates have gone to medical school or law school, joined research laboratories, or become high school teachers.

### Jobs of Experienced Alumni

university or college professor, engineer, research scientist in a government laboratory, researchers and developers in private industry, K-12 teacher, physician

Learn more about opportunities in this field at the Career Center

### Physics, Minor

#### Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

#### Minor Courses

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 101</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 105</td>
<td>General Physics W/Calc I</td>
<td></td>
</tr>
<tr>
<td>PH 125</td>
<td>Honors Gen Ph W/Calculus</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 102</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 106</td>
<td>General Physics W/Calc II</td>
<td></td>
</tr>
<tr>
<td>PH 126</td>
<td>Honors Gen Ph W/Calculus II</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 8

#### Electives

Select six hours of PH electives 300 and 400 level

Select four hours of PH electives

Credit Hours Subtotal: 10
Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus in the Department of Physics and Astronomy.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics W/Calc I or PH 125 Honors Gen Ph W/Calculus, AND PH 102 General Physics II, PH 106 General Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus II. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.

Department of Political Science
The department of political science offers two majors, one in political science and another in international studies, both of which culminate in the Bachelor of Arts degree. Minors in both fields are also offered. Also, oversight of the public policy minor resides in the department of political science.

• Majors
  • Political Science (BA) (p. 1051)
  • International Studies (BA) (p. 1047)

• Minors
  • Political Science (p. 1052)
  • International Studies (p. 1050)
  • Public Policy (p. 1054)

PSC101 Intro American Politics
SB
Hours 3
Survey of the principles, political institutions, and practices of American national, state, and local politics.

Social and Behavioral Sciences

PSC103 Intro Public Policy
Hours 3
Survey of problems encountered by American governmental units in fields such as agriculture, welfare, education, health, and business regulation.

View All Courses

Faculty
Chair
Smith, Joseph L.

Professors
Borrelli, Stephen A.
Cassel, Carol A.
DeRouen, Karl, Jr.
Fording, Richard C.
McKnight, Utz Lars

Associate Professors
Albrecht, Holger
Caillier, James
Levine, Daniel
Miller, Ted H.
Patton, Dana J.
Royed, Terry J.
Smith, Joseph L.

Assistant Professors
Bishara, Dina
Hale, Christopher W.
Hawley, George
Ji, Hyunjung
Kerr, Nicholas N.
Linken, Allen

Professors Emeriti
Alsikafi, Majeed
Baldwin, J. Norman
Chotiner, Barbara A.
Cotter, Patrick R.
Kline, Harvey F.
Oneal, John R.
Snow, Donald M.
Staub, Stephen A.
Stewart, William H.

International Studies, BA
Those enrolled in this major may have interests, for example, in public service careers that deal with international affairs, the legal profession—especially international law—teaching in high schools and universities, the military, FBI, CIA, and political advocacy. Beyond the college
requirements, coursework for this major typically includes political science, history, languages, economics, geography, and anthropology.

318 ten Hoor Hall

**Admission into the Major**

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Special Opportunities**

Students are encouraged to study abroad while fulfilling the requirements of the international studies program. For more information, contact the Capstone International Center.

Students earning the Bachelor of Arts (BA) degree with a major in International Studies must complete all University, college and departmental degree requirements. These include the general education requirements, coursework for this major typically includes political science, history, languages, economics, geography, and anthropology.

**Field Requirement**

Courses that focus primarily on art, music, literature, folk, or film be counted as Field courses. Language courses will not count unless there is substantial historical, economic, political science, geographical or anthropological content.

**Special Topics In PSC**

A minimum of 6 hours must be at the 300- or 400-level.

Students must earn a minimum of 12 hours chosen from one of the following fields. Other courses can sometimes be approved by International Studies advisers during advising periods on a course-by-course basis. **A maximum of 6 hours can be in a single department.**

**Field 1: International Relations**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 210</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Race, Ethnicity, &amp; Human Var.</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 102</td>
<td>Intro to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>EC 111</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GY 105</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civ Since 1648</td>
<td>3</td>
</tr>
<tr>
<td>HY 106</td>
<td>Honors West Civ Sc 1648</td>
<td>3</td>
</tr>
<tr>
<td>PSC 204</td>
<td>International Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Focused Areas of Study**

Select six hours among the fields at 300 or 400 level | 6
Select six hours among the fields | 6

**Credit Hours Subtotal:** 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 388</td>
<td>The Crusades</td>
<td>3</td>
</tr>
<tr>
<td>HY 481</td>
<td>War/Dipl. in Med &amp; Mod. Europe</td>
<td>3</td>
</tr>
<tr>
<td>HY 482</td>
<td>War &amp; Religion in the West</td>
<td>3</td>
</tr>
<tr>
<td>HY 483</td>
<td>Thirty Years' War</td>
<td>3</td>
</tr>
<tr>
<td>PSC 203</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 330</td>
<td>Democratization</td>
<td>3</td>
</tr>
<tr>
<td>PSC 340</td>
<td>Civil Wars</td>
<td>3</td>
</tr>
<tr>
<td>PSC 344</td>
<td>The Israel-Palestine Conflict</td>
<td>3</td>
</tr>
<tr>
<td>PSC 413</td>
<td>Amer Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 414</td>
<td>Foreign Policy Decisionmaking</td>
<td>3</td>
</tr>
<tr>
<td>PSC 434</td>
<td>Internatol Polit Econom</td>
<td>3</td>
</tr>
<tr>
<td>PSC 435</td>
<td>War And Peace</td>
<td>3</td>
</tr>
<tr>
<td>PSC 441</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>PSC 442</td>
<td>Internatol Conflict</td>
<td>3</td>
</tr>
<tr>
<td>PSC 443</td>
<td>Comparative Pub Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 446</td>
<td>Political Economy of Security</td>
<td>3</td>
</tr>
<tr>
<td>PSC 448</td>
<td>Human Rights &amp; Institutions</td>
<td>3</td>
</tr>
<tr>
<td>REL 223</td>
<td>Holocaust Historical Perspecti</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 430</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>EC 431</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>FI 431</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBA 350</td>
<td>Introduction to World Business</td>
<td>3</td>
</tr>
<tr>
<td>IBA 351</td>
<td>Multinat'l Bus. Communication</td>
<td>3</td>
</tr>
<tr>
<td>IBA 455</td>
<td>Global Marketing</td>
<td>3</td>
</tr>
<tr>
<td>IBA 460</td>
<td>Export/Import Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>PSC 434</td>
<td>Internatol Polit Econom</td>
<td>3</td>
</tr>
</tbody>
</table>

**Field 2: International Business**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 422</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>HY 341</td>
<td>Hy US - Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HY 357</td>
<td>World War I</td>
<td>3</td>
</tr>
<tr>
<td>HY 358</td>
<td>World War II</td>
<td>3</td>
</tr>
<tr>
<td>HY 388</td>
<td>The Crusades</td>
<td>3</td>
</tr>
<tr>
<td>HY 413</td>
<td>Mexican War Thru Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HY 480</td>
<td>Survey of Military History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Field 3: Peace and Conflict Studies (Peace and Conflict Studies and International Business Fields only)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 422</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>HY 341</td>
<td>Hy US - Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HY 357</td>
<td>World War I</td>
<td>3</td>
</tr>
<tr>
<td>HY 358</td>
<td>World War II</td>
<td>3</td>
</tr>
<tr>
<td>HY 388</td>
<td>The Crusades</td>
<td>3</td>
</tr>
<tr>
<td>HY 413</td>
<td>Mexican War Thru Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HY 480</td>
<td>Survey of Military History</td>
<td>3</td>
</tr>
</tbody>
</table>
Focused Areas of Study

Students must earn a minimum of 9 hours chosen from one of the following areas (or methods specialization for peace and conflict studies). Other courses can sometimes be approved by International Studies advisers during advising periods on a course-by-course basis. A maximum of 6 hours can be in a single department. A minimum of 3 hours must be at the 300 or 400 level. PSC 321 Special Topics in PSC and PSC 422 Seminar Political Science can be used to satisfy focused areas of study requirements provided the topic relates to the specific field and the program director approves. Only under exceptional circumstances will courses that focus primarily on art, music, literature, folklore, or film be counted as Area courses. Language courses will not count unless there is substantial historical, economic, political science, geographical or anthropological content.

Focused Area of Study 1: Asia

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ANT 217</td>
<td>Peoples of Asia</td>
</tr>
<tr>
<td>3</td>
<td>HY 113</td>
<td>Asian Civilization to 1400</td>
</tr>
<tr>
<td>3</td>
<td>HY 114</td>
<td>Modern Asia since 1400</td>
</tr>
<tr>
<td>3</td>
<td>HY 402</td>
<td>Modern Japan since 1550</td>
</tr>
<tr>
<td>3</td>
<td>HY 404</td>
<td>Modern China since 1600</td>
</tr>
<tr>
<td>3</td>
<td>REL 220</td>
<td>Survey of Asian Religion</td>
</tr>
<tr>
<td>3</td>
<td>REL 321</td>
<td>Rel &amp; Ident in South Asia</td>
</tr>
</tbody>
</table>

Language minor: Chinese or Japanese

Focused Area of Study 2: Latin America

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>ANT 319</td>
<td>Ancient New World Civilization</td>
</tr>
<tr>
<td>3</td>
<td>ANT 408</td>
<td>Ancient Mexican Civilization</td>
</tr>
<tr>
<td>3</td>
<td>ANT 409</td>
<td>Ancient Maya Civilization</td>
</tr>
<tr>
<td>3</td>
<td>ANT 413</td>
<td>Peoples of Latin Amer</td>
</tr>
<tr>
<td>3</td>
<td>EC 442</td>
<td>Econ Develop Of Lat Am</td>
</tr>
<tr>
<td>3</td>
<td>HY 111</td>
<td>Colonial Latin America</td>
</tr>
<tr>
<td>3</td>
<td>HY 112</td>
<td>Modern Latin Am since 1808</td>
</tr>
<tr>
<td>3</td>
<td>HY 368</td>
<td>Caribbean History Since 1492</td>
</tr>
<tr>
<td>3</td>
<td>HY 370</td>
<td>A history of the Atlantic World, 1400-1800</td>
</tr>
<tr>
<td>3</td>
<td>HY 378</td>
<td>Drugs, Booze, and Mexican Society</td>
</tr>
<tr>
<td>3</td>
<td>HY 474</td>
<td>Relation US Latin Amer</td>
</tr>
</tbody>
</table>

Language minor: Spanish

Focused Area of Study 3: Middle East and Africa

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CL 384</td>
<td>Ancient Egypt Near East</td>
</tr>
</tbody>
</table>

Focused Area of Study 4: Russia and Eastern Europe

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HY 361</td>
<td>Russia to 1894</td>
</tr>
<tr>
<td>3</td>
<td>HY 362</td>
<td>Russia-Soviet Union since 1894</td>
</tr>
</tbody>
</table>

Language minor: Russian.

Focused Area of Study 5: Western Europe

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ANT 412</td>
<td>Peoples of Europe</td>
</tr>
<tr>
<td>3</td>
<td>CL 385</td>
<td>History Of Greece</td>
</tr>
<tr>
<td>3</td>
<td>CL 386</td>
<td>History Of Rome</td>
</tr>
<tr>
<td>3</td>
<td>HY 247</td>
<td>England To 1688</td>
</tr>
<tr>
<td>3</td>
<td>HY 300</td>
<td>Special Studies in History (History of Scandinavian Foreign Relations)</td>
</tr>
<tr>
<td>3</td>
<td>HY 349</td>
<td>History of France 1760-present</td>
</tr>
<tr>
<td>3</td>
<td>HY 357</td>
<td>World War I</td>
</tr>
<tr>
<td>3</td>
<td>HY 358</td>
<td>World War II</td>
</tr>
<tr>
<td>3</td>
<td>HY 365</td>
<td>European Consumer Society</td>
</tr>
<tr>
<td>3</td>
<td>HY 385</td>
<td>History Of Greece</td>
</tr>
<tr>
<td>3</td>
<td>HY 386</td>
<td>History Of Rome</td>
</tr>
<tr>
<td>3</td>
<td>HY 442</td>
<td>The Middle Ages</td>
</tr>
<tr>
<td>3</td>
<td>HY 443</td>
<td>Renaissance</td>
</tr>
<tr>
<td>3</td>
<td>HY 444</td>
<td>Reform &amp; Counter-Reformation</td>
</tr>
<tr>
<td>3</td>
<td>HY 446</td>
<td>Age of Reason 1715-89</td>
</tr>
<tr>
<td>3</td>
<td>HY 451</td>
<td>Early Modern Germany</td>
</tr>
<tr>
<td>3</td>
<td>HY 483</td>
<td>Thirty Years’ War</td>
</tr>
<tr>
<td>3</td>
<td>HY 490</td>
<td>England under Tudors</td>
</tr>
<tr>
<td>3</td>
<td>HY 491</td>
<td>England under Stuarts</td>
</tr>
<tr>
<td>3</td>
<td>HY 493</td>
<td>Britain in the 18th Century</td>
</tr>
<tr>
<td>3</td>
<td>HY 494</td>
<td>Britain in the in the Victorian Age</td>
</tr>
<tr>
<td>3</td>
<td>PSC 321</td>
<td>Special Topics in PSC (History of Scandinavian Foreign Relations)</td>
</tr>
<tr>
<td>3</td>
<td>PSC 334</td>
<td>Government Politics West Europ</td>
</tr>
<tr>
<td>3</td>
<td>REL 223</td>
<td>Holocaust Historical Perspecti</td>
</tr>
</tbody>
</table>

Language minor: French, German, Italian, or Spanish

Focused Area of Study 6: Methods (Peace and Conflict Studies only)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>EC 471</td>
<td>Econometrics</td>
</tr>
<tr>
<td>3</td>
<td>HY 430</td>
<td>UG Research Seminar</td>
</tr>
</tbody>
</table>
PSC 202  Political Science Methods  3
ST 260  Statistical Data Analysis  3
ST 450  Statistical Methods in Research I  3
ST 451  Statistical Methods in Research II  3

Language minor: Any foreign language minor

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses
This major does not require ancillary courses. However, courses in the field and area requirements may have prerequisites.

Required Minor
Students must minor in a foreign language that is spoken in the area of the world chosen from the area requirement. A minor in any language will meet this requirement for the Peace and Conflict Studies Field.

Additional Major Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

This degree can lead to opportunities with investigative, intelligence, and diplomatic agencies. Some graduates go on to law or graduate school or international business.

Types of Jobs Accepted
Graduate school, military, business

International Studies, Minor

318 ten Hoor Hall

Admission into the Minor
Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses
Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 102</td>
<td>Intro to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>EC 111</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GY 105</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HY 102 or HY 106</td>
<td>Western Civ Since 1648 or Honors West Civ Sc 1648</td>
<td>3</td>
</tr>
<tr>
<td>PSC 204</td>
<td>International Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Field requirement

Select 12 hours, 6 hours must be at the 300 or 400 level.  

Total Hours  18

Students must earn a minimum of 12 hours chosen from one of the following fields. Other courses (for example Special Topics or Seminar courses) can sometimes be approved by International Studies advisers during advising periods on a course-by-course basis provided the topic relates to the specific field. Only under exceptional circumstances will courses that focus primarily on art, music, literature, folklore, or film be counted as Field courses. Language courses will not count towards the Field unless there is substantial historical, economic, political science, geographical or anthropological content.

Fields

Field 1: International Relations

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 210</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Race, Ethnicity, &amp; Human Var.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 311</td>
<td>Pop., Health &amp; Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ANT 319</td>
<td>Ancient New World Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ANT 402</td>
<td>Gender, Ethnicity, and Health</td>
<td>3</td>
</tr>
<tr>
<td>ANT 418</td>
<td>Dev Non-West Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANT 421</td>
<td>Ethnography</td>
<td>3</td>
</tr>
<tr>
<td>ANT 440</td>
<td>Culture</td>
<td>3</td>
</tr>
<tr>
<td>CIP 200</td>
<td>Introduction To Global Studies</td>
<td>3</td>
</tr>
<tr>
<td>GY 377</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GY 453</td>
<td>Environment &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (The Crusades)</td>
<td>3</td>
</tr>
<tr>
<td>HY 325</td>
<td>Us-World Power to 1898</td>
<td>3</td>
</tr>
<tr>
<td>HY 326</td>
<td>Us-World Power sc 1898</td>
<td>3</td>
</tr>
<tr>
<td>HY 368</td>
<td>Caribbean History Since 1492</td>
<td>3</td>
</tr>
<tr>
<td>HY 370</td>
<td>A history of the Atlantic World, 1400-1800</td>
<td>3</td>
</tr>
<tr>
<td>HY 481</td>
<td>War/Dipl. in Med &amp; Mod. Europe</td>
<td>3</td>
</tr>
<tr>
<td>HY 482</td>
<td>War &amp; Religion in the West</td>
<td>3</td>
</tr>
<tr>
<td>HY 483</td>
<td>Thirty Years’ War</td>
<td>3</td>
</tr>
<tr>
<td>PSC 203</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 340</td>
<td>Civil Wars</td>
<td>3</td>
</tr>
<tr>
<td>PSC 330</td>
<td>Democratization</td>
<td>3</td>
</tr>
<tr>
<td>PSC 344</td>
<td>The Israel-Palestine Conflict</td>
<td>3</td>
</tr>
<tr>
<td>PSC 413</td>
<td>Amer Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 414</td>
<td>Foreign Policy Decisionmaking</td>
<td>3</td>
</tr>
<tr>
<td>PSC 434</td>
<td>Internati Polit Econ</td>
<td>3</td>
</tr>
<tr>
<td>PSC 435</td>
<td>War And Peace</td>
<td>3</td>
</tr>
<tr>
<td>PSC 441</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>PSC 442</td>
<td>Internati Conflict</td>
<td>3</td>
</tr>
<tr>
<td>PSC 443</td>
<td>Comparative Pub Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 446</td>
<td>Political Economy of Security</td>
<td>3</td>
</tr>
<tr>
<td>PSC 448</td>
<td>Human Rights &amp; Institutions</td>
<td>3</td>
</tr>
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</table>

Field 2: International Business

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EC 430</td>
<td>International Trade</td>
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</tr>
<tr>
<td>EC 431</td>
<td>International Finance</td>
<td>3</td>
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</tbody>
</table>
Field 3: Peace and Conflict Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 444</td>
<td>Political Economy of Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>HY 300</td>
<td>Special Studies in History (The Crusades)</td>
<td>3</td>
</tr>
<tr>
<td>HY 341</td>
<td>Hy US - Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HY 357</td>
<td>World War I</td>
<td>3</td>
</tr>
<tr>
<td>HY 358</td>
<td>World War II</td>
<td>3</td>
</tr>
<tr>
<td>HY 388</td>
<td>The Crusades</td>
<td>3</td>
</tr>
<tr>
<td>HY 413</td>
<td>Mexican War Thru Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HY 480</td>
<td>Survey of Military History</td>
<td>3</td>
</tr>
<tr>
<td>HY 481</td>
<td>War/Dipl. in Med &amp; Mod. Europe</td>
<td>3</td>
</tr>
<tr>
<td>HY 482</td>
<td>War &amp; Religion in the West</td>
<td>3</td>
</tr>
<tr>
<td>HY 483</td>
<td>Thirty Years' War</td>
<td>3</td>
</tr>
<tr>
<td>PSC 340</td>
<td>Civil Wars</td>
<td>3</td>
</tr>
<tr>
<td>PSC 344</td>
<td>The Israel-Palestine Conflict</td>
<td>3</td>
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<tr>
<td>PSC 413</td>
<td>Amer Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 414</td>
<td>Foreign Policy Decisionmaking</td>
<td>3</td>
</tr>
<tr>
<td>PSC 435</td>
<td>War And Peace</td>
<td>3</td>
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<tr>
<td>PSC 442</td>
<td>Internatl Conflict</td>
<td>3</td>
</tr>
<tr>
<td>PSC 441</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>PSC 446</td>
<td>Political Economy of Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. If necessary, students may consult with the minor department academic adviser for questions concerning minor requirements.

Political Science, BA

Students enrolled in political science classes may have interests in public service careers at the national, state, and local levels; the legal profession; teaching in high schools and universities; political advocacy; nonprofit organizations related to public policy; elective and appointive office; political campaigns; and the media. Studying political science also contributes to informed and effective citizenship.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The department offers several opportunities to earn advanced-level credit through its own Study Abroad programs: currently in Sweden, Belgium, Germany, and Jamaica. The department also offers credit for selected students’ participation in the UA Mock Trial Team, as well as credit for internships in federal, state, and local politics and government (including our annual programs in Montgomery, Alabama and Washington, D.C.).

Students earning the bachelor of arts (BA) degree with a major in political science must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PSC 101</td>
<td>Intro American Politics</td>
<td>3</td>
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<tr>
<td>PSC 202</td>
<td>Political Science Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSC 203</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 204</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PSC 205</td>
<td>Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>PSC 206</td>
<td>Public Administration</td>
<td>3</td>
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</tbody>
</table>

Field Requirement

Select a minimum of three hours in three of the fields

Credit Hours Subtotal: 9

Electives

Select 12 hours of PSC electives, 300-499

Credit Hours Subtotal: 12

Total Hours

30

Fields

Students must earn a minimum of 3 hours in three of the fields listed below for a total of 9 hours.

Field 1: American Government

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103</td>
<td>Intro Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 211</td>
<td>State &amp; Local Govt</td>
<td>3</td>
</tr>
<tr>
<td>PSC 311</td>
<td>Pol Party &amp; Elections</td>
<td>3</td>
</tr>
<tr>
<td>PSC 312</td>
<td>Amer Legislative Syst</td>
<td>3</td>
</tr>
<tr>
<td>PSC 313</td>
<td>The American Executive</td>
<td>3</td>
</tr>
<tr>
<td>PSC 314</td>
<td>Amer Judicial System</td>
<td>3</td>
</tr>
<tr>
<td>PSC 316</td>
<td>Southern Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 318</td>
<td>Constitn Law Limits Gov Power</td>
<td>3</td>
</tr>
<tr>
<td>PSC 319</td>
<td>Con Law Civ Rts and Libs</td>
<td>3</td>
</tr>
</tbody>
</table>
PSC 364 African Amer & Polit Sys 3
PSC 370 American Public Policy 3
PSC 411 Public Opinion 3
PSC 413 Amer Foreign Policy 3
PSC 416 Migration and American Politics 3
PSC 464 The Politics of Health Policy 3
PSC 465 The Politics of Sex 3
PSC 466 The Politics of Poverty 3

Field 2: Comparative Politics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 203</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 330</td>
<td>Democratization</td>
<td>3</td>
</tr>
<tr>
<td>PSC 331</td>
<td>Politics of Developing Nations</td>
<td>3</td>
</tr>
<tr>
<td>PSC 334</td>
<td>Government Politics West Europ</td>
<td>3</td>
</tr>
<tr>
<td>PSC 335</td>
<td>Soc Movements &amp; Cont Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 336</td>
<td>African Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 340</td>
<td>Civil Wars</td>
<td>3</td>
</tr>
<tr>
<td>PSC 443</td>
<td>Comparative Pub Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 344</td>
<td>The Israel-Palestine Conflict</td>
<td>3</td>
</tr>
</tbody>
</table>

Field 3: Political Theory

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 205</td>
<td>Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>PSC 353</td>
<td>Modern Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>PSC 362</td>
<td>Organization Theory</td>
<td>3</td>
</tr>
<tr>
<td>PSC 452</td>
<td>American Political Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

Field 4: Public Policy and Public Administration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103</td>
<td>Intro Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 206</td>
<td>Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PSC 211</td>
<td>State &amp; Local Govt</td>
<td>3</td>
</tr>
<tr>
<td>PSC 361</td>
<td>Fiscal Policy &amp; Budget</td>
<td>3</td>
</tr>
<tr>
<td>PSC 362</td>
<td>Organization Theory</td>
<td>3</td>
</tr>
<tr>
<td>PSC 365</td>
<td>Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 370</td>
<td>American Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 462</td>
<td>Public Personnel Admin</td>
<td>3</td>
</tr>
<tr>
<td>PSC 464</td>
<td>The Politics of Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 443</td>
<td>Comparative Pub Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 466</td>
<td>The Politics of Poverty</td>
<td>3</td>
</tr>
</tbody>
</table>

Field 5: International Relations

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 204</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PSC 340</td>
<td>Civil Wars</td>
<td>3</td>
</tr>
<tr>
<td>PSC 413</td>
<td>Amer Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 414</td>
<td>Foreign Policy Decisionmaking</td>
<td>3</td>
</tr>
<tr>
<td>PSC 434</td>
<td>Internat Polit Econom</td>
<td>3</td>
</tr>
<tr>
<td>PSC 435</td>
<td>War And Peace</td>
<td>3</td>
</tr>
<tr>
<td>PSC 441</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>PSC 442</td>
<td>Internatl Conflict</td>
<td>3</td>
</tr>
<tr>
<td>PSC 446</td>
<td>Political Economy of Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The major in political science does not require ancillary courses. However, it is recommended that students considering graduate school study a modern foreign language.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Specific sections of topics courses (PSC 320 Special Studies In PSC, PSC 321 Special Topics In PSC, PSC 421 Seminar in Political Science W and PSC 422 Seminar Political Science) may be appropriate to fulfill the field requirements. Students should contact the department’s undergraduate director concerning this use of special topics courses. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for enrollment in 300-level political science courses is sophomore standing or permission of the instructor, and the prerequisite for 400-level political science courses is junior standing or higher or permission of the instructor.

Besides positions in the fields of public service and politics, law, education, and journalism, there are opportunities for graduates in business.

Types of Jobs Accepted

congressional staff member, political party staff member, staff member at nonprofit organization, law enforcement official, military officer, teacher, AmeriCorps member, lobbyist

Jobs of Experienced Alumni

elected official, lawyer, judge, civil servant, foreign service officer, military officer, professor, teacher, journalist, business manager

Learn more about opportunities in this field at the Career Center

Political Science, Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.
PSC 101 Intro American Politics 3
Select one of the following: 3
PSC 202 Political Science Methods
PSC 203 Comparative Politics
PSC 204 International Relations
PSC 205 Political Theory
PSC 206 Public Administration
Credit Hours Subtotal: 6
Field Requirement
Select a minimum of three hours in three of the fields 9
Credit Hours Subtotal: 9
Electives
Select six hours of PSC electives, 300-499 6
Credit Hours Subtotal: 6
Total Hours 21

Fields
Students must earn a minimum of 3 hours in three of the fields listed below for a total of 9 hours.

Field 1: American Government
Hours
PSC 103 Intro Public Policy 3
PSC 211 State & Local Govt 3
PSC 311 Pol Party & Elections 3
PSC 312 Amer Legislative Syst 3
PSC 313 The American Executive 3
PSC 314 Amer Judicial System 3
PSC 316 Southern Politics 3
PSC 318 Constit Law Limits Gov Power 3
PSC 319 Con Law Civ Rts and Libs 3
PSC 364 African Amer & Polit Sys 3
PSC 370 American Public Policy 3
PSC 411 Public Opinion 3
PSC 413 Amer Foreign Policy 3
PSC 416 Migration and American Politics 3
PSC 464 The Politics of Health Policy 3
PSC 465 The Politics of Sex 3

Field 2: Comparative Politics
Hours
PSC 203 Comparative Politics 3
PSC 330 Democratization 3
PSC 334 Government Politics West Europ 3
PSC 335 Soc Movements & Cont Politics 3
PSC 344 The Israel-Palestine Conflict 3
PSC 443 Comparative Pub Policy 3

Field 3: Political Theory
Hours
PSC 205 Political Theory 3
PSC 353 Modern Political Thought 3
PSC 362 Organization Theory 3

PSC 452 American Political Thought 3

Field 4: Public Policy and Public Administration
Hours
PSC 103 Intro Public Policy 3
PSC 206 Public Administration 3
PSC 211 State & Local Govt 3
PSC 361 Fiscal Policy & Budget 3
PSC 362 Organization Theory 3
PSC 365 Environmental Policy 3
PSC 370 American Public Policy 3
PSC 462 Public Personnel Admin 3
PSC 464 The Politics of Health Policy 3

Field 5: International Relations
Hours
PSC 204 International Relations 3
PSC 413 Amer Foreign Policy 3
PSC 434 Internatl Polit Econom 3
PSC 435 War And Peace 3
PSC 441 Terrorism 3
PSC 442 Internatl Conflict 3
PSC 446 Political Economy of Security 3

Grade Point Average
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Specific sections of topics courses (PSC 320 Special Studies In PSC, PSC 321 Special Topics In PSC, PSC 421 Seminar in Political Science W, and PSC 422 Seminar Political Science) may be appropriate to fulfill the field requirements. Students should contact the department's undergraduate director concerning this use of special topics courses. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites
Unless otherwise stated, the prerequisite for enrollment in 300-level political science courses is sophomore standing or permission of the instructor, and the prerequisite for 400-level political science courses is junior standing or higher or permission of the instructor.
# Public Policy, Minor

## Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

### Minor Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103 or Intro Public Policy</td>
<td>Intro Public Policy</td>
</tr>
<tr>
<td>PSC 370 American Public Policy</td>
<td>American Public Policy</td>
</tr>
</tbody>
</table>

### Political Context of Public Policy

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 101</td>
<td>Intro American Politics</td>
</tr>
<tr>
<td>PSC 211</td>
<td>State &amp; Local Govt</td>
</tr>
<tr>
<td>PSC 312</td>
<td>Amer Legislative Syst</td>
</tr>
<tr>
<td>PSC 361</td>
<td>Fiscal Policy &amp; Budget</td>
</tr>
<tr>
<td>PSC 443</td>
<td>Comparative Pub Policy</td>
</tr>
</tbody>
</table>

### Economic Analysis

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics</td>
</tr>
</tbody>
</table>

### Research Methods or Data Analysis

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 345</td>
<td>Educational Statistics</td>
</tr>
<tr>
<td>CHS 425</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>CJ 280</td>
<td>Research Methods</td>
</tr>
<tr>
<td>CJ 381</td>
<td>Statistics</td>
</tr>
<tr>
<td>EC 471</td>
<td>Econometrics</td>
</tr>
<tr>
<td>GES 255</td>
<td>Engineering Statistics I</td>
</tr>
<tr>
<td>KY 430</td>
<td>Intro Geographic Info Systems</td>
</tr>
<tr>
<td>MKT 473</td>
<td>Marketing Research</td>
</tr>
<tr>
<td>PSC 202</td>
<td>Political Science Methods</td>
</tr>
<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
</tr>
<tr>
<td>SW 420</td>
<td>Research Social Work Practice</td>
</tr>
</tbody>
</table>

### Public Policy

Select two or three of the following: 6-9 hours

**Economic Policy:**
- EC 410 | Law And Economics |
- EC 413 | Econ Forecasting & Analysis |
- EC 430 | International Trade |
- EC 444 | Political Economy of Terrorism |
- EC 480 | Econ of Environment |
- EC 423 | Public Finance |
- EC 483 | Health Care Economics |

**Environmental Policy:**
- GEO 105 | Sustainable Earth |
- GY 105 | World Regional Geography |
- GY 409 | Forest History and Restoration |
- GY 452 | Environ Decision Making |
- GY 453 | Environment & Society |
- MS 433 | Coastal Zone Management |
- PSC 365 | Environmental Policy |

**Foreign Policy:**
- HY 326 | Us-World Power sc 1898 |
- HY 474 | Relation US Latin Amer |
- PSC 321 | Special Topics In PSC (Transnational Politics or International Institutions) |
- PSC 342 | For Pol Sov Un Suc State |
- PSC 413 | Amer Foreign Policy |
- PSC 434 | Internatl Polit Econom |
- PSC 422 | Seminar Political Science |

**Health Care Policy:**
- ANT 311 | Pop., Health & Human Origins |
- ANT 402 | Gender, Ethnicity, and Health |
- ANT 411 | Culture, Health, & Healing |
- CHS 330 | Intro Clinical Medicine |
- CHS 400 | Rural Envir/Occup Health |
- CHS 420 | Basic Epidemiology |
- CHS 427 | Health Policy & Planning |
- FI 444 | Life & Health Insurance |
- PHL 332 | Theories of Justice |
- PSC 464 | The Politics of Health Policy |

**National Security Policy:**
- AMS 445 | The “Good War” |
- HY 480 | Survey of Military History |
- HY 482 | War & Religion in the West |
- PSC 435 | War And Peace |
- PSC 441 | Terrorism |
- PSC 442 | Internatl Conflict |
- PSC 446 | Political Economy of Security |

**Social Welfare Policy and Services:**
- SW 200 | History Social Welfare US |
- SW 206 | Growing Old In America |
- SW 208 | Juvenile Delinquency |
- SW 210 | Family & Child Welfare |
- SW 351 | Oppression & Soc Injustice |
- SW 401 | Soc Wel Policy & Services |
- SW 442 | SW Practice with Communities |

**Trade Policy:**
- EC 416 | Monetary Theory & Policy |
- FI 416 | Monetary Theory & Policy |
- LGS 402 | Government & Business |

**Urban Policy:**
- GY 200 | Principles Of Planning |
- GY 365 | Industrial Develop & Location |
- GY 440 | Commun Facil Planning |
- GY 441 | Land Use Regulation |
- GY 458 | Urban Planning And Analysis |
- GY 465 | Region Planning Analysis |
- GY 466 | Transport Geography |

**Independent Study (Optional)**
Independent project under the direction of a faculty member, as approved by the minor advisor.

Total Hours 18-24

**Grade Point Average**
A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

**Ancillary Courses**
This minor does not require ancillary courses.

**Additional Minor Requirements**
The public policy studies minor requires a minimum of 18 hours. Students must take three hours from each of the following four areas for a total of 12 hours:
1. Introduction to Public Policy
2. The Political Context of Public Policy
3. Economic Analysis
4. Research Methods or Data Analysis
The remaining six hours may be completed by taking courses in public policy or independent study sections as outlined above.

**Prerequisites**
Public policy studies is an interdisciplinary minor, which pulls courses from various academic departments on campus. The prerequisite rules outlined in the course descriptions apply to all those included in the minor curriculum.

**Department of Psychology**
The Department of Psychology offers an undergraduate major culminating in both a Bachelor of Arts (BA) degree and Bachelor of Science (BS) degree. The department also offers a minor in psychology.

- **Majors**
  - Psychology (BA) (p. 1056)
  - Psychology (BS) (p. 1058)

- **Minors**
  - Psychology (p. 1059)
  - Neuroscience (p. 1056)

[object Object]

**PY101 Honors Intro Psychology**
*SB, UH*

Hours 3

Honors section of PY 101.

Social and Behavioral Sciences, University Honors

View All Courses

**Faculty**

**Chair and Professor**
Conners, Frances

**Professor and Director of Center for Mental Health and Aging**
Parmelee, Patricia

**Professor and Director of Graduate Studies**
Merrill, Ed

**Saxon Professor**
Lochman, John E.

**Professors**
Snow, Andrea Lynn
Allen, Rebecca
Salekin, Randall
Ward, Thomas B.

**Associate Professor and Director of Clinical Psychology**
Jarrett, Matthew

**Associate Professor and Director of Experimental Psychology**
Gable, Philip

**Assistant Professor and Director of Undergraduate Studies**
McDonald, Kristina

**Associate Professors**
Gilpin, Ansley
Black, Sheila
Hamilton, James C.
Parker, Jeffrey
Roskos, Beverly
Salekin, Karen
Hart, William

**Assistant Professor and Director of the Psychological Clinic**
Shealy, R. Clayton

**Assistant Clinical Teaching Professors**
Cummings, Craig
Stromeyer, Sara

**Assistant professors**
Tullett, Alexa
Glenn, Andrea
Gunn, Heather
McDonough, Ian
Cox, Jennifer
Kois, Lauren
Neuroscience Minor

The Neuroscience Minor is a rigorous interdisciplinary minor focusing on the neural bases of psychological, biological, anthropological, philosophical, and communicative processes. Course selections are comprised of upper-level courses in the Departments of Psychology, Biology, Philosophy, Anthropology, and Communicative Disorders. The Neuroscience Minor is recommended for students with a GPA of at least 3.0, have sophomore standing, and have completed at least 15 credit hours at UA.

Declaring a Neuroscience Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

The following requirements must be met in order to complete the Neuroscience minor:

1. Eighteen (18) hours from the approved course list (below) must be taken.
2. No credit hours can be counted towards both a major and the Neuroscience minor.
3. No more than nine (9) hours from the minor may be completed in a single department.
4. A 2.0 grade point average in the minor is required.

Select 18 hours from the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ANT 474</td>
<td>Neuroanthropology</td>
</tr>
<tr>
<td>3</td>
<td>BSC 300</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>3</td>
<td>BSC 449</td>
<td>Endocrinology</td>
</tr>
<tr>
<td>3</td>
<td>BSC 448</td>
<td>Animal Behavior</td>
</tr>
<tr>
<td>3</td>
<td>BSC 424</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>3</td>
<td>CD 462</td>
<td>Neuro for CD</td>
</tr>
<tr>
<td>3</td>
<td>PHL 422</td>
<td>Neuroethics</td>
</tr>
<tr>
<td>3</td>
<td>PHL 462</td>
<td>Neural Basis of Consciousness</td>
</tr>
<tr>
<td>3</td>
<td>PY 313</td>
<td>Sensation and Perception</td>
</tr>
<tr>
<td>3</td>
<td>PY 381</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>3</td>
<td>PY 413</td>
<td>Physiological Psych</td>
</tr>
<tr>
<td>3</td>
<td>PY 353</td>
<td>Bio Basis of Psych Disorders</td>
</tr>
</tbody>
</table>

Note: Topical courses focusing on neuroscience may be approved to meet course requirements.

Students should complete course prerequisites for approved courses in the Neuroscience Minor. However, instructors offering courses in the minor may waive prerequisites to students who have demonstrated strong academic performance and have completed background courses in biological or psychological sciences to complete neuroscience courses in other departments. Students should contact the course instructor with their name, completed courses, and course grades.

Psychology, BA

Psychology majors have a wide range of interests. Anyone preparing for a career that involves contact with other people can benefit from taking classes in psychology. Among the common pre-professional concentrations for psychology majors are pre-medical, pre-physical therapy, pre-law, pre-occupational therapy, and pre-physical therapy. Many psychology majors have interests in communication studies such as advertising and public relations. Others have interests in business and can apply their knowledge of psychology to marketing, management, or organizational behavior. Psychology majors can approach the study of behavior from a variety of perspectives ranging from humanistic psychology, which focuses on human growth and potential, to biological bases of behavior, which focuses on relations among body, brain, and behavior. Written and oral communication skills are essential to success in psychology and related fields.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The Psychology Department Honors Program is designed to afford qualified majors the opportunity to participate in activities preparatory for graduate training in psychology. The two-year program is research-oriented and involves interactions with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent on the submission of an independently conducted research project equivalent in quality to a master’s thesis. Psychology majors who are in the second semester of the sophomore year with nine hours of coursework in psychology (including PY 101 Intro To Psychology, PY 211 Elem Statistical Methods and a 300-level course) to be completed by the end of the semester may apply for admission to the Psychology Department Honors Program. A completed application and interview by the Departmental Honors Committee are required before acceptance. To be accepted, it is recommended that a student have at least a 3.5 GPA in psychology coursework and a 3.3 cumulative GPA; however, meeting these standards does not guarantee admission.

Students earning the bachelor of arts (BA) degree with a major in psychology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>PY 101</td>
<td>Intro To Psychology</td>
</tr>
<tr>
<td>3</td>
<td>PY 211</td>
<td>Elem Statistical Methods</td>
</tr>
<tr>
<td>1</td>
<td>PY 321</td>
<td>Professional Issues</td>
</tr>
<tr>
<td>3</td>
<td>PY 355</td>
<td>General Experimental Psycholog</td>
</tr>
<tr>
<td>2</td>
<td>PY 356</td>
<td>Research Laboratory</td>
</tr>
<tr>
<td>3</td>
<td>PY 370</td>
<td>History &amp; Systems</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 15

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Select three hours of PY elective 300 or 400 level</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3
Seminar
Select one seminar sequence:  
PY 391 Junior Seminar  
& PY 491 Senior Seminar in Psychology  
PY 491 Senior Seminar in Psychology  
& 491 Senior Seminar in Psychology

Credit Hours Subtotal: 6

Area Requirements
Select nine hours from list below

Credit Hours Subtotal: 9

Ancillary Courses
Grades in ancillary courses are not computed into the major GPA. The major in psychology requires the successful completion of the following courses outside the major:
Select eight hours of the following:
BSC 114 Principles Of Biology I  
& BSC 115 and Laboratory Biology I  
BSC 116 Principles Biology II  
& BSC 117 and Biology II Laboratory  
BSC 118 Honors General Biology I  
BSC 120 Honors Gen Biology II  
CH 101 General Chemistry  
CH 102 General Chemistry  
CH 104 Introductory Chemistry  
CH 105 Introductory Org Chem  
CH 117 Honors General Chemistry  
CH 118 Honors General Chemistry  
PH 101 General Physics I  
PH 102 General Physics II  
PH 105 General Physics W/Calc I  
PH 106 General Physics W/Calc II  
PH 125 Honors Gen Ph W/Calculus  
PH 126 Honors Gen Ph W/Calculus II

Credit Hours Subtotal: 8

Total Hours 41

1 Two seminars are required, and at least one must be PY 491 Senior Seminar in Psychology

Learning/Cognition
PY 361 Psychology Of Learning  
PY 470 Intro Cognitive Psychlng

Social/Personality
PY 358 Abnormal Psychology  
PY 368 Intro To Personality  
PY 372 Social Psychology

Biologically Based
PY 313 Sensation and Perception  
PY 413 Physiological Psych

Grade Point Average
A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency
A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor
This major requires the completion of a minor.

Additional Major Requirements
Students are responsible for ensuring that they have met all requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites
PY 101 Intro To Psychology or PY 105 Honors Intro Psychology is a prerequisite for all higher-numbered psychology courses. Unless otherwise stated, all 400-level PY courses have as a prerequisite 12 hours in the psychology department, including PY 355 General Experimental Psycholog and PY 356 Research Laboratory. PY 355 General Experimental Psycholog and PY 356 Research Laboratory require a grade of C- in PY 211 Elem Statistical Methods as a prerequisite.

Psychology majors choose from a wide range of occupations in business, academics, mental health/social services, human resources, human relations, and behavioral/medical research. A good resource for evaluating possible job opportunities for persons with a bachelor's, master's, or doctoral degree can be found at: http://www.apa.org/careers/index.aspx

Types of Jobs Accepted
Many psychology majors apply to a variety of graduate programs. There are doctoral and master's programs in both clinical and non-clinical aspects of psychology in graduate psychology departments. Doctorates and master's degrees may also be earned in school psychology and counseling in many colleges of education, human development, and social work.
Learn more about opportunities in this field at the Career Center

**Psychology, BS**

Psychology majors have a wide range of interests. Anyone preparing for a career that involves contact with other people can benefit from taking classes in psychology. Among the common pre-professional concentrations for psychology majors are pre-medical, pre-physical therapy, pre-law, pre-occupational therapy, and pre-physical therapy. Many psychology majors have interests in communication studies such as advertising and public relations. Others have interests in business and can apply their knowledge of psychology to marketing, management, or organizational behavior. Psychology majors can approach the study of behavior from a variety of perspectives ranging from humanistic psychology, which focuses on human growth and potential, to biological bases of behavior, which focuses on relations among body, brain, and behavior. Written and oral communication skills are essential to success in psychology and related fields.

**Admission into the Major**

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Special Opportunities**

The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities to prepare for graduate training in psychology. The two-year program is research-oriented and involves interactions with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent on the submission of an independently conducted research project equivalent in quality to a master’s thesis. Psychology majors who are in the second semester of the sophomore year with nine hours of coursework in psychology (including PY 101 Intro To Psychology, PY 211 Elem Statistical Methods and a 300-level course) to be completed by the end of the semester may apply for admission to the psychology department honors program. A completed application and interview by the Departmental Honors Committee are required before acceptance. To be accepted, it is recommended that a student must have at least a 3.5 GPA in psychology coursework and a 3.3 cumulative GPA; however, meeting these standards does not guarantee admission.

Students earning the bachelor of science (BS) degree with a major in psychology must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

**Major Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 101 Intro To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 211 Elem Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PY 321 Professional Issues</td>
<td>1</td>
</tr>
<tr>
<td>PY 355 General Experimental Psycholog</td>
<td>3</td>
</tr>
<tr>
<td>PY 356 Research Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PY 370 History &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>Select one seminar sequence: ¹</td>
<td>6</td>
</tr>
<tr>
<td>PY 379 Junior Honors Seminar</td>
<td></td>
</tr>
<tr>
<td>&amp; PY 491 and Senior Seminar In Psychology</td>
<td></td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 21

**Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three hours of PY elective 300 or 400 level</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three courses from three content areas</td>
<td>9</td>
</tr>
</tbody>
</table>

**Ancillary Courses**

Grades in ancillary courses are not computed into the major GPA. The major in psychology requires successful completion of the following courses outside the major:

- MATH 125 or Calculus I
- MATH 145 Honors Calculus I
- Select eight hours of the following: 8
  - BSC 108 Intro Biology Non Maj I
  - BSC 109 Intro Biology Non Maj II
  - BSC 114 Principles Of Biology I
  - & BSC 115 and Laboratory Biology I
  - BSC 116 Principles Biology II
  - & BSC 117 and Biology II Laboratory
  - BSC 118 Honors General Biology I
  - BSC 120 Honors Gen Biology II
  - CH 101 General Chemistry
  - CH 102 General Chemistry
  - CH 104 Introductory Chemistry
  - CH 105 Introductory Org Chem
  - CH 117 Honors General Chemistry
  - CH 118 Honors General Chemistry
  - PH 101 General Physics I
  - PH 102 General Physics II
  - PH 105 General Physics W/Calc I
  - PH 106 General Physics W/Calc II
  - PH 125 Honors Gen Ph W/Calculus
  - PH 126 Honors Gen Ph W/Calculus II

**Credit Hours Subtotal:** 12

**Total Hours**

45

¹ Two seminars are required, and one must be PY 491 Senior Seminar In Psychology

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

This major requires the completion of a minor.
Additional Major Requirements

Majors must receive a minimum grade of C- in PY 211 Elem Statistical Methods. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, college and University requirements.

Prerequisites

PY 101 Intro To Psychology or PY 105 Honors Intro Psychology is a prerequisite for all higher-numbered psychology courses. Unless otherwise stated, all 400-level PY courses have as a prerequisite 12 hours in the psychology department, including PY 355 General Experimental Psycholog and PY 356 Research Laboratory. PY 355 General Experimental Psycholog and PY 356 Research Laboratory require a grade of C- in PY 211 Elem Statistical Methods as a prerequisite.

Area Requirement

Students must complete courses from three of the following content areas for a total of nine hours. At least one course should be at the 400 level.

Developmental

PY 352 Developmental Psych 3
PY 365 Psychology Of Aging 3
PY 461 Child Psychology 3

Learning/Cognition

PY 361 Psychology Of Learning 3
PY 470 Intro Cognitive Psychlg 3

Social/Personality

PY 358 Abnormal Psychology 3
PY 368 Intro To Personality 3
PY 372 Social Psychology 3

Biologically Based

PY 313 Sensation and Perception 3
PY 413 Physiological Psych 3

Psychology majors choose from a wide range of occupations in business, academics, mental health/ social services, human resources, human relations and behavioral/medical research. A good resource for evaluating possible job opportunities for persons with a bachelors, masters or doctorate degree can be found at: http://www.psychwww.com/careers/index.htm

Types of Jobs Accepted

Many psychology majors apply to a variety of graduate programs. There are Ph.D. and masters programs in both clinical and non-clinical aspects of psychology in graduate psychology departments. Doctorates and masters degrees may also be earned in school psychology and counseling in many colleges of education, human development and social work.

Learn more about opportunities in this field at the Career Center

Psychology, Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

PY 101 Intro To Psychology or PY 105 Honors Intro Psychology is a prerequisite for all higher-numbered psychology courses. Unless otherwise stated, all 400-level PY courses have as a prerequisite 12 hours in the psychology department, including PY 355 General Experimental Psycholog and PY 356 Research Laboratory. PY 355 General Experimental Psycholog and PY 356 Research Laboratory require a grade of C- in PY 211 Elem Statistical Methods as a prerequisite.

Department of Religious Studies

Although many students from all across the University of Alabama enroll in religious studies courses to fulfill the University's core curriculum "humanities" or "writing" requirements, some choose to major, double major, or minor in the study of religion. Doing so allows them to examine in greater detail the histories and functions of a wide variety of texts, myths, rituals, symbols, and institutions. In the process, they take small upper-level classes, get to know professors with national and international scholarly reputations, and acquire skills that enable them to describe, compare, interpret, and explain—skills that they will use long after leaving the religious studies classroom. And, as home of both the
Aronov Endowed Chair in Judaic Studies and the director of the cross-disciplinary Asian studies program, students may also pursue a minor, either in the study of Judaism or Asia – past and present.

Religious studies – also known as comparative religion, the science of religion, the history of religions, or just the academic study of religion – is part of the human sciences (such as sociology, anthropology, etc.); it was first established in Europe as an academic discipline in the late 19th century (at the same time as other fields such as comparative languages) and, since the mid-1960s, has also flourished in U.S. public universities because it is a non-normative field. Much as political science constitutes the study of the political process itself rather than the promotion and participation in specific party politics, the descriptive and cross-culturally comparative study about religion as carried out in the publicly-funded university is to be distinguished from religious (theological) forms of study that seek to advance specific religious viewpoints. Instead, the academic study of religion aims to examine the history and contemporary forms taken by religion(s) as well as study the history and contemporary implications of using the category religion to name aspects of human behavior.

Apart from requirements that apply to all students in the College of Arts & Sciences, the only prerequisites for religious studies students are an interest in cross-cultural work in different historical periods and a curiosity about the many ways that human communities, past and present, have devised for creating worlds in which to live and act.

An REL Honors focus (requiring a regular seminar designated as an Honors Seminar plus an Honors Thesis [REL 400]) is now available. If you would like to learn more about this opportunity, please speak with the REL advisor no later than your Junior year.

Also, each Spring the Department hosts its own undergraduate research symposium, to highlight to work done by our students.

Learn more about REL on the web at http://religion.ua.edu or visit the Department’s blog (where faculty, students, and grads all regularly post); you can find us on Vimeo and you can visit the department on Facebook as well as find out information on our student association, or follow us on Twitter @StudyReligion.

- Major
  - Religious Studies (BA) (p. 1062)
- Minors
  - Religious Studies (p. 1064)
  - Asian Studies (p. 1060)
  - Judaic Studies (p. 1061)

REL100 Intro To Religious Studies

Hours 3

Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures. This course is required of all majors and minors.

Humanities

REL101 The Violent and the Sacred: Religion and the Problem of Human Suffering

HU

Hours 3

This introductory course examines the socio-cultural constructs called "religion" and "violence" with the help of academic theories and theorists in order to consider relationships between the two. The course introduces theories of evil, violence, and hatred, using historical and contemporary case studies on such topics as terrorism and genocide.

Prerequisite(s): N/A

Prerequisite(s) with concurrency: N/A

Humanities

View All Courses

Faculty

Chair

McCutcheon, Russell T.

Professors

Jacobs, Steven L

Ramey,Steven W.

Trost, Theodore L.

Associate Professors

Simmons, K. Merinda

Assistant Professor

Alman, Michael

Ikeuchi, Suma

Loewen, Nathan

Touna, Vaia

Instructor

Bagger, Matthew

Asian Studies, Minor

212 Manly Hall

http://asianstudies.as.ua.edu/

Program Description

The Asian Studies minor provides an inter-disciplinary opportunity for study and research focused on the variety of cultural regions of Asia (past and present), particularly South Asia and East Asia. The Asian Studies minor can incorporate courses in a range of areas, including anthropology, art history, Asian languages, history, literature, political science, and religious studies. Courses also frequently address international and cross-cultural issues intersecting with Asia. Through courses and events, the Asian Studies minor promotes awareness and expertise about the region and its connections throughout the world.

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Learn More

Follow the Asian Studies minor on Twitter @AsianStudiesUA.
Minor Courses
Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 254</td>
<td>Survey Of Art III</td>
<td>6</td>
</tr>
<tr>
<td>HY 113</td>
<td>Asian Civilization to 1400</td>
<td>3</td>
</tr>
<tr>
<td>HY 114</td>
<td>Modern Asia since 1400</td>
<td>3</td>
</tr>
<tr>
<td>REL 220</td>
<td>Survey Of Asian Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Electives
Select six hours of Asian related electives
Select six hours of Asian related electives 300 and 400 level

Credit Hours Subtotal: 12

Total Hours 18

Upper-level Residency
A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses
Grades in ancillary courses are not computed into the minor grade point average. The minor in Asian studies requires the following outside the minor: two semesters or equivalent proficiency in one language chosen from Chinese, Hindi, Indonesian, Japanese, Korean, Thai, Tibetan or Vietnamese.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Judaic Studies, Minor

The interdisciplinary minor in Judaic Studies provides students with the ability to focus on the history and contemporary issues of relevance to the study of Judaism. Housed in the Department of Religious Studies, the degree requires the completion of four foundational courses but also allows students to select among a series of electives, as well as transfer in courses from other departments (e.g., from history, modern languages, etc.) that are relevant to the study of Judaism. The Aronov Chair of Judaic Studies, a faculty member in Religious Studies, is the advisor for this degree.

212 Manly Hall
https://religion.ua.edu/undergraduate-programs/minor-in-judaic-studies/

Admission into the Minor
Students are expected to formally declare a Judaic Studies (JS) minor by completing the Change of Major/Minor Application online under the Student tab of myBama. Consult with the religious studies advisor in the Department of Religious Studies, who also advises for the JS minor. The Department of Religious Studies is the home of the JS minor.

Note: students can major in REL and also minor in JS so long as they do not "double count" courses toward these two separate degrees.

Special Opportunities
The department annually awards both Silverstein Fellowships (providing the opportunity to work in the department for one or more semesters, assisting in the main office and assisting professors with their work) and Silverstein Scholarships (awarded by the faculty each Honors Day based on a student’s GPA [only JS minors and REL majors are eligible]). To learn more about these funding opportunities, visit https://religion.ua.edu/undergraduate-programs/scholarships/. The department also conducts four ongoing lecture and discussion series, supports an active Religious Studies Student Association, and hosts the local chapter of Theta Alpha Kappa, the national honors society for the study of religion.

Find us on Facebook along with the "Religious Studies Student Association" or on Twitter @StudyReligion.
Admission into the Major

Students are encouraged to declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students declare a major by completing the Change of Major/Minor Application online under the Student tab on myBama. Prospective majors and double-majors should contact the religious studies office to make an appointment with the REL undergraduate advisor to discuss their career goals and academic interests.

Special Opportunities

The department annually awards both Silverstein Fellowships (providing the opportunity to work in the department for one or more semesters, assisting in the main office and assisting professors with their work) and Silverstein Scholarships (awarded by the faculty each Honors Day based on a student’s GPA [REL majors and Judaic Studies minors are eligible]). To learn more about these funding opportunities, visit as.ua.edu/rel/studetkscholarships.html. The department also conducts four ongoing lecture and discussion series, supports an active Religious Studies Student Association, and hosts the local chapter of Theta Alpha Kappa, the national honors society for the study of religion. Find us on Facebook: "Department of Religious Studies at The University of Alabama" and the "Religious Studies Student Association" or on Twitter @StudyReligion. Finally, in addition to featuring undergraduate research on the department’s blog, the Religious Studies department hosts an annual undergraduate research symposium. Talk to an REL professor about getting involved.

Students earning the bachelor of arts (BA) degree with a major in religious studies must complete all University, College, and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other necessary credits to total 120 credit hours.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students majoring in religious studies may not apply the same religious studies courses toward both the religious studies major and the Judaic studies minor. They must earn 21 hours of REL courses for the minor and 30 hours of REL courses for the major.

With department approval, the equivalent of up to six credit hours can be applied toward the minor requirement from relevant coursework done outside the religious studies department.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level REL courses is junior standing or permission of the instructor.

Religious Studies, BA

Apart from requirements that apply to all students in the College of Arts and Sciences, the only prerequisites for religious studies students are an interest in crosscultural work in different historical periods and a curiosity about the many ways that human communities—past and present—have devised for creating worlds in which to live and act.

212 Manly Hall
religiousstudies@as.ua.edu
Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

This major does not require ancillary courses; however, students interested in graduate-level work in the study of religion are advised to take either French or German as part of the undergraduate program of study. Prospective graduate students in religious studies should consult with faculty members concerning additional language study appropriate to their particular scholarly interests.

Required Minor

This major requires the completion of a minor.

Additional Major Requirements

Including REL 490 Senior Capstone Seminar, a minimum of 15 hours must be earned in 300- or 400-level courses; at least six of these upper-level hours (usually two courses) must be earned in courses offered by the religious studies department.

With department approval, the equivalent of up to 12 credit hours can be applied toward the major requirement from relevant coursework done outside the religious studies department. Consult the REL Advisor to discuss the possibility of counting courses done outside REL toward your REL major.

Students can count a maximum of six hours of online REL courses toward the major or minor.

For more information on degree requirements, visit as.ua.edu/rel/degree.html. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level REL courses is junior standing or permission of the instructor.

Variable Topics Courses

Depending on the topic, the following courses may be counted toward any focused area of study. In addition, students can earn a maximum of nine hours for any variable topics courses that address different course content.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 361</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 370</td>
<td>Adv Study Religion Communicati</td>
<td>3</td>
</tr>
<tr>
<td>REL 371</td>
<td>Adv St Religion and Conflict</td>
<td>3</td>
</tr>
<tr>
<td>REL 372</td>
<td>Adv Std Religion and Context</td>
<td>3</td>
</tr>
<tr>
<td>REL 373</td>
<td>Seminar Rel and Communication</td>
<td>3</td>
</tr>
<tr>
<td>REL 400</td>
<td>REL Honors Thesis</td>
<td>3</td>
</tr>
<tr>
<td>REL 460</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 461</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 480</td>
<td>Seminar Rel and Conflict</td>
<td>3</td>
</tr>
<tr>
<td>REL 483</td>
<td>Seminar Rel and Context</td>
<td>3</td>
</tr>
<tr>
<td>REL 490</td>
<td>Senior Capstone Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Religion in Popular Culture

REL 360 Individual Research is offered every semester and is devoted to studying religion in popular culture/public humanities; it is a one credit hour course repeatable up to a total of three credit hours and is open to all students. REL 360 Individual Research meets in the evenings to view and then blog on films (different films are included each semester, with faculty introducing them and leading a discussion afterwards). It also includes attending either the annual Day or Aronov Lectures (the former each Fall and the latter each Spring).

REL Departmental Honors

REL 400 REL Honors Thesis is part of REL Honors, which is open to majors/double majors in REL who have at least a 3.0 cumulative GPA and at least a 3.5 GPA in their REL major. It involves enrolling in 3 hours of REL 400 (normally in your senior year) and writing a final thesis (equivalent to a publishable paper in an undergraduate student journal). Departmental Honors also requires that one regularly offered REL seminar be designated as your Honors Seminar, normally taken prior to enrolling in REL 400. An oral defense of your thesis is required. Please speak with the REL advisor no later than your Junior year if you are interested in applying for Departmental Honors. For additional information, please contact the REL professor with whom you would intend to pursue thesis work.

Focused Areas of Study

Religion in Communication

Courses in the Religion in Communication focused area of study focus on the ways people communicate about religion in arenas of popular culture as well as in academe.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 110</td>
<td>Intro To The Old Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 112</td>
<td>Intro To New Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 124</td>
<td>Religion and Film in America</td>
<td>3</td>
</tr>
<tr>
<td>REL 224</td>
<td>Judaism</td>
<td>3</td>
</tr>
<tr>
<td>REL 228</td>
<td>Hy Of Christian Thought</td>
<td>3</td>
</tr>
<tr>
<td>REL 237</td>
<td>Self Society &amp; Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
<td>Apocalypse In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>REL 311</td>
<td>English Bible As Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 322</td>
<td>Tales from Asia</td>
<td>3</td>
</tr>
<tr>
<td>REL 341</td>
<td>Theories of Asia</td>
<td>3</td>
</tr>
<tr>
<td>REL 420</td>
<td>Gospel Of Mark</td>
<td>3</td>
</tr>
<tr>
<td>REL 430</td>
<td>Religion and Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 440</td>
<td>Theories of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

Religion in Conflict

Courses in the Religion in Conflict focused area of study emphasize the various ways in which religion and conflict overlap and intersect.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 101</td>
<td>The Violent and the Sacred</td>
<td>3</td>
</tr>
<tr>
<td>REL 220</td>
<td>Survey Of Asian Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 223</td>
<td>Holocaust Historical Perspecti</td>
<td>3</td>
</tr>
<tr>
<td>REL 226</td>
<td>African Diaspora Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 234</td>
<td>Women And Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
<td>Apocalypse In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>REL 241</td>
<td>American Religious History</td>
<td>3</td>
</tr>
<tr>
<td>REL 245</td>
<td>Honors Hist. Religions of Amer</td>
<td>3</td>
</tr>
<tr>
<td>REL 321</td>
<td>Rel &amp; Ident in South Asia</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Hours</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>REL 347</td>
<td>Jewish-Christian Relations</td>
<td>3</td>
</tr>
<tr>
<td>REL 350</td>
<td>Religion in Colonial Empire</td>
<td>3</td>
</tr>
<tr>
<td>REL 410</td>
<td>Religion and Genocide</td>
<td>3</td>
</tr>
<tr>
<td>REL 415</td>
<td>Religion in the American South</td>
<td>3</td>
</tr>
<tr>
<td>REL 419</td>
<td>Adv Studies in Myth and Ritual</td>
<td>3</td>
</tr>
</tbody>
</table>

**Religion in Context**

Courses in the Religion in Context focused area of study focus on collections of beliefs and behaviors in relation to the social contexts in which they appear and operate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 110</td>
<td>Intro To The Old Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 112</td>
<td>Intro To New Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 124</td>
<td>Religion and Film in America</td>
<td>3</td>
</tr>
<tr>
<td>REL 208</td>
<td>Hinduism</td>
<td>3</td>
</tr>
<tr>
<td>REL 220</td>
<td>Survey Of Asian Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 226</td>
<td>African Diaspora Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 228</td>
<td>Hy Of Christian Thought</td>
<td>3</td>
</tr>
<tr>
<td>REL 234</td>
<td>Women And Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 236</td>
<td>Islam</td>
<td>3</td>
</tr>
<tr>
<td>REL 237</td>
<td>Self Society &amp; Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 238</td>
<td>Philosophies Of Judaism</td>
<td>3</td>
</tr>
<tr>
<td>REL 241</td>
<td>American Religious History</td>
<td>3</td>
</tr>
<tr>
<td>REL 245</td>
<td>Honors Hist. Religions of Amer</td>
<td>3</td>
</tr>
<tr>
<td>REL 311</td>
<td>English Bible As Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 321</td>
<td>Rel &amp; Ident in South Asia</td>
<td>3</td>
</tr>
<tr>
<td>REL 322</td>
<td>Tales from Asia</td>
<td>3</td>
</tr>
<tr>
<td>REL 341</td>
<td>Theories of Myth</td>
<td>3</td>
</tr>
<tr>
<td>REL 415</td>
<td>Religion in the American South</td>
<td>3</td>
</tr>
<tr>
<td>REL 419</td>
<td>Adv Studies in Myth and Ritual</td>
<td>3</td>
</tr>
<tr>
<td>REL 420</td>
<td>Gospel Of Mark</td>
<td>3</td>
</tr>
<tr>
<td>REL 440</td>
<td>Theories of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

**Types of Jobs Accepted**

Majors and minors in Religious Studies develop crucial skills necessary for citizenship in the 21st century, including critical thinking, oral and written communication skills and cultural literacy. Graduates of the program have pursued careers in a variety of venues, such as medicine, law, non-profit government organizations, various religiously-affiliated ministries, public administration, music and teaching.

Learn more about opportunities in this field at the Career Center.

**Religious Studies, Minor**

212 Manly Hall
religiousstudies@as.ua.edu

**Admission into the Minor**

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Special Opportunities**

The department annually awards both Silverstein Fellowships (providing the opportunity to work in the department for one or more semesters, assisting in the main office and assisting professors with their work) and Silverstein Scholarships (awarded by the faculty each Honors Day based on a student’s GPA [only REL majors and Judaic Studies minors are eligible]). To learn more about these funding opportunities, visit as.ua.edu/rel/stdesksscholarships.html. The department also conducts four ongoing lecture and discussion series, supports an active Religious Studies Student Association and hosts the local chapter of Theta Alpha Kappa, the national honors society for the study of religion. Finally, apart from featuring undergraduate research on the department’s blog, it hosts an annual undergraduate research symposium; talk to an REL professor about getting involved.

Find us on Facebook at “Department of Religious Studies at the University of Alabama” and the “Religious Studies Student Association” or on Twitter @StudyReligion.

**Minor Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 100 or REL 105</td>
<td>Intro To Religious Studies or Honors Intro Relig Stdy</td>
<td>3</td>
</tr>
<tr>
<td>REL 102</td>
<td>Religions of World</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

**Focused Area of Study**

Select nine hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 110</td>
<td>Intro To The Old Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 112</td>
<td>Intro To New Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 124</td>
<td>Religion and Film in America</td>
<td>3</td>
</tr>
<tr>
<td>REL 224</td>
<td>Judaism</td>
<td>3</td>
</tr>
<tr>
<td>REL 228</td>
<td>Hy Of Christian Thought</td>
<td>3</td>
</tr>
<tr>
<td>REL 234</td>
<td>Women And Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 237</td>
<td>Self Society &amp; Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 238</td>
<td>Philosophies Of Judaism</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
<td>Apocalypse In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>REL 311</td>
<td>English Bible As Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 322</td>
<td>Tales from Asia</td>
<td>3</td>
</tr>
<tr>
<td>REL 341</td>
<td>Theories of Myth</td>
<td>3</td>
</tr>
<tr>
<td>REL 420</td>
<td>Gospel Of Mark</td>
<td>3</td>
</tr>
<tr>
<td>REL 440</td>
<td>Theories of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

**Electives**

Select six hours of REL electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 110</td>
<td>Intro To The Old Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 112</td>
<td>Intro To New Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 124</td>
<td>Religion and Film in America</td>
<td>3</td>
</tr>
<tr>
<td>REL 224</td>
<td>Judaism</td>
<td>3</td>
</tr>
<tr>
<td>REL 228</td>
<td>Hy Of Christian Thought</td>
<td>3</td>
</tr>
<tr>
<td>REL 237</td>
<td>Self Society &amp; Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
<td>Apocalypse In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>REL 311</td>
<td>English Bible As Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 322</td>
<td>Tales from Asia</td>
<td>3</td>
</tr>
<tr>
<td>REL 341</td>
<td>Theories of Myth</td>
<td>3</td>
</tr>
<tr>
<td>REL 420</td>
<td>Gospel Of Mark</td>
<td>3</td>
</tr>
<tr>
<td>REL 430</td>
<td>Religion and Literature</td>
<td>3</td>
</tr>
<tr>
<td>REL 440</td>
<td>Theories of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Total Hours 21

**Focused Areas of Study**

Students must earn nine hours in one of the following three focus areas: Religion in Communication, Religion in Conflict or Religion in Context.

**Religion in Communication**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 110</td>
<td>Intro To The Old Testament</td>
<td>3</td>
</tr>
<tr>
<td>REL 112</td>
<td>Intro To New Testament</td>
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</tr>
<tr>
<td>REL 124</td>
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<td>3</td>
</tr>
<tr>
<td>REL 224</td>
<td>Judaism</td>
<td>3</td>
</tr>
<tr>
<td>REL 228</td>
<td>Hy Of Christian Thought</td>
<td>3</td>
</tr>
<tr>
<td>REL 237</td>
<td>Self Society &amp; Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
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</tr>
<tr>
<td>REL 311</td>
<td>English Bible As Literature</td>
<td>3</td>
</tr>
<tr>
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<td>3</td>
</tr>
<tr>
<td>REL 341</td>
<td>Theories of Myth</td>
<td>3</td>
</tr>
<tr>
<td>REL 420</td>
<td>Gospel Of Mark</td>
<td>3</td>
</tr>
<tr>
<td>REL 440</td>
<td>Theories of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

**Religion in Conflict**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 220</td>
<td>Survey Of Asian Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 223</td>
<td>Holocaust Historical Perspecti</td>
<td>3</td>
</tr>
<tr>
<td>REL 226</td>
<td>African Diaspora Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 234</td>
<td>Women And Religion</td>
<td>3</td>
</tr>
<tr>
<td>REL 240</td>
<td>Apocalypse In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>REL 241</td>
<td>American Religious History</td>
<td>3</td>
</tr>
</tbody>
</table>
Variable Topics Courses

Depending on the topic, the following courses may be counted toward any focused area of study. In addition, students can earn a maximum of nine hours for any variable topics courses that address different course content.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 361</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 370</td>
<td>Adv Study Religion Communication</td>
<td>3</td>
</tr>
<tr>
<td>REL 371</td>
<td>Adv St Religion and Conflict</td>
<td>3</td>
</tr>
<tr>
<td>REL 372</td>
<td>Adv Std Religion and Context</td>
<td>3</td>
</tr>
<tr>
<td>REL 373</td>
<td>Seminar Rel and Communication</td>
<td>3</td>
</tr>
<tr>
<td>REL 460</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 461</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 480</td>
<td>Seminar Rel and Conflict</td>
<td>3</td>
</tr>
<tr>
<td>REL 483</td>
<td>Seminar Rel and Context</td>
<td>3</td>
</tr>
<tr>
<td>REL 490</td>
<td>Senior Capstone Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Religion in Popular Culture

is offered every semester and is devoted to studying religion in popular culture/public humanities; it is a one credit hour course repeatable up to a total of three credit hours and is open to all students. REL 360 meets in the evenings to view and then blog on films (different films are included each semester, with faculty introducing them and leading a discussion after). It also includes includes attending either the annual Day or Aronov Lectures (the former each Fall and the latter each Spring).

REL Honors

REL Honors, involves 3 hours of REL 400 and is only open to REL majors/double majors who meet GPA requirements. See the major requirements for more information.

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

A minimum of nine hours must be earned in 300- or 400-level courses.

With department approval, the equivalent of up to six credit hours can be applied toward the minor requirement from relevant coursework done outside of the religious studies department. Speak with the Religious Studies adviser to discuss courses outside REL that might enhance a minor in the study of religion.

Students can count a maximum of six hours of online REL courses toward the minor.

For more information on degree requirements, visit as.ua.edu/rel/degree.html. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Prerequisites

Unless otherwise stated, the prerequisite for 300- and 400-level REL courses is junior standing or permission of the instructor.

Department of Theatre and Dance

The Department of Theatre and Dance offers a Bachelor of Arts (BA) degree in theatre and in dance, as well as a minor in theatre.

- Majors
  - Theatre (BA) (p. 1069)
  - Dance (BA) (p. 1066)
  - Theatre with a Musical Theatre Concentration (BA) (p. 1067)
  - Theatre (BFA) (p. 1069)

- Minors
  - Theatre (p. 1072)
Snyder, Rita M.
Barry, Sarah M.
Guo, Qianping
Hetzel, Allison B.
deCelle, F. Randy
Assistant Professors
Yeager, Dominic
Jackson, Lawrence M.
Salzer, Rebecca
Levy, Anne G.
Reynolds, Matthew

**DN110 Intro To Dance Styles**
**Hours 2**
Introduction to ballet, modern, and jazz dance through theory and practice at the beginning level.

**TH113 Voice And Diction**
**Hours 3**
Credit for this course will not be awarded to students majoring or minoring in theatre. A beginning course designed to assist the student in improving use of his or her voice and speech. Offered annually and in the summer session.

View All Courses

**Faculty**

**Professor and Chair**
Teague, William

**Professors**
Carter, Cornelius
Burch, Steven
Meester, Donna
Panitch, Seth

**Associate Professors**
Fitch, Thomas A.

Snyder, Rita M.
Barry, Sarah M.
Guo, Qianping
Hetzel, Allison B.
deCelle, F. Randy
Alley, Stacy
Martin, William

**Assistant professors**
Reynolds, Matthew
Yeager, Dominic
Jackson, Lawrence M.
Salzer, Rebecca
Levy, Anne G.

Schoger, Kelley
**Instructor**
Virciglio, John

**Clinical instructor**
Armit, Jacki

**Dance, BA**

Students entering the program should have a strong background and interest in dance. This should include experience in at least two dance styles (ballet, modern, or jazz).

**Admission into the Major**

Admission to the dance major is by audition only. For information on the audition process, contact The University of Alabama, Department of Theatre and Dance, Box 870239, Tuscaloosa, AL 35487-0239; or visit as.ua.edu/theatre.

**Special Opportunities**

The dance program, accredited by the National Association of Schools of Dance (NASD), adheres to professional standards for technique in classical ballet and modern and jazz dance. The department presents two dance concerts each semester: the Alabama Repertory Dance Theatre (ARDT) and Dance Alabama! concerts. Alabama Repertory Dance Theatre is the pre-professional student dance company that performs classical repertoire as well as contemporary and jazz choreography. Acceptance into the company is by audition only. Dance Alabama! concerts are comprised of student works that are chosen by dance faculty adjudication. Dance Alabama! is a theatrical venue designed to showcase serious choreography that is conceptually original, technically proficient, and well crafted. Participation in ARDT and Dance Alabama! is open to dance majors and non-majors.

Students earning the bachelor of arts (BA) degree with a major in dance must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 105</td>
<td>Freshman Seminar for DN Majors</td>
</tr>
<tr>
<td>DN 211 or 212</td>
<td>Modern Dance II-A or II-B</td>
</tr>
<tr>
<td>DN 251 or 252</td>
<td>Jazz Technique II-A or II-B</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

| DN 121 | Ballet Technique I-A |
| DN 122 | Ballet Technique I-B |
| DN 221 | Ballet Technique II-A |
| DN 222 | Ballet Technique II-B |

Credit Hours Subtotal: **10**

<table>
<thead>
<tr>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 11 hours of DN courses at 300/400 level</td>
</tr>
<tr>
<td>Select nine hours of DN or DNCA electives</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: **20**

| Ancillary Courses |
Grades in ancillary courses are not computed into the major GPA. The major in dance requires the successful completion of the following course outside the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNCA 240</td>
<td>Choreography I</td>
<td>3</td>
</tr>
<tr>
<td>DNCA 265</td>
<td>Introduction to Anatomy and Kinesiology For Dance</td>
<td>3</td>
</tr>
<tr>
<td>DNCA 470</td>
<td>History Of Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DNCA 471</td>
<td>History of Dance II</td>
<td>3</td>
</tr>
<tr>
<td>TH 324</td>
<td>Lighting and Sound for Dance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 15

**Total Hours:** 45

1 Excluding DNCA courses counted for ancillary requirement.

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours in 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

This major requires the completion of a minor. A minor in theatre or business is recommended.

**Additional Major Requirements**

Dance majors must reach a proficiency level of 300 in the major technique (modern, ballet or jazz) and 200 in the secondary technique (modern, ballet or jazz) before graduation. Dance majors must participate in all program auditions. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Career opportunities include performing with professional dance companies (ballet, modern and/or jazz), Broadway/off Broadway/touring productions, cruise lines, commercial/television, teaching/running a private dance studio and freelance choreography. Students are also prepared to enter graduate programs in dance for the purpose of teaching at colleges and universities.

**Types of Jobs Accepted**

Graduates of the University of Alabama dance program have accepted jobs in dance performance, choreography, dance instruction and administration.

**Jobs of Experienced Alumni**

Our alumni have worked in professional venues such as the Radio City Rockettes, Gus Giordano, Alabama Ballet, Complexions, Disney Productions, national Broadway tours, cruise lines, freelance choreography and top graduate schools, as well as running their own private studios.

Learn more about opportunities in this field at the Career Center.

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**Theatre with a Musical Theatre Concentration, BA**

**Bachelor of Arts-Musical Theatre Concentration**

The Bachelor of Arts (BA) Musical Theatre concentration in the Department of Theatre and Dance is committed to fostering a student’s talent and technique in all aspects of musical theatre. Students enjoy the advantage of being part of a vibrant liberal arts community with the added benefit of more intimate class sizes.

Our BA in Theatre with a Musical Theatre concentration, now in its 15th year, is a more flexible degree program designed to help the student become a well-rounded and competitive musical theatre scholar/artist, while offering room to explore other fields of study.

By studying Musical Theatre at UA, you will:

- work with a faculty of passionate, highly trained professionals.
- make valuable connections in professional musical theatre by participating in master classes and auditions here on campus.
- receive hands-on preparation for various employment opportunities through professional theatre conferences and on-campus auditions.
- have an invaluable, competitive edge with information and material that prepares students for a comprehensive career in the business aspects of musical theatre.
- have the opportunity to audition for participation in a senior showcase in NYC, performing for industry professionals.
- have the opportunity to perform as part of our diverse season, in occasional touring productions, as part of SummerTide Theatre (our professional theatre in Gulf Shores), and in student productions.

**Admission into the Major**

Admission to the BA-Musical Theatre concentration is by audition. Auditions are held on campus each fall and spring, with exact dates published annually on the department website. Students must complete the online application form (also on the website) and apply to The University of Alabama in order to be considered for admission. Students will be notified of acceptance, and eligibility for possible departmental scholarship in a timely fashion. If accepted, continuance is dependent upon satisfactory development, evaluated annually by the musical theatre faculty.

Please visit the departmental website for up-to-date, detailed information on the audition process at https://theatre.ua.edu/ba-programs/program-auditions/

**Note:** There is overlap between the material covered by both the BA and BFA, but as a whole they have distinct differences, which means what’s right for one prospective student isn’t always right for another. No matter what degree one decides to pursue, our mission is to develop the knowledge, skills, and concepts essential to the life of a musical theatre professional.

**Special Opportunities**

The Department of Theatre and Dance offers various programs of study leading to the BA degree in theatre. These program areas include acting, musical theatre, theatre management and administration, scene design and technical production, and costume design and production. Please
see the principal advisor in each of these areas for entrance requirements and a suggested course of study.

The highly motivated student who seeks to be well prepared for either the profession or graduate education may choose to take more hours in the major than the specified 36. This plan of action is highly desirable and strongly advised, but is not required. If more than 42 hours are accrued in the major, the student will be exceeding the 120 credit hour requirement for graduation by the number of hours taken over the single-subject 42 semester hour limit.

Students earning the bachelor of arts (BA) degree with a major in theatre must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

**MUSICAL THEATRE TRACK**

**MUSICAL THEATRE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 114</td>
<td>Intro To The Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 141</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>TH 191</td>
<td>Introduction to Practicum</td>
<td>1</td>
</tr>
<tr>
<td>TH 291</td>
<td>Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>TH 391</td>
<td>Practicum II</td>
<td>1</td>
</tr>
<tr>
<td>TH 230</td>
<td>Stage Makeup</td>
<td>2</td>
</tr>
<tr>
<td>TH 165</td>
<td>Musicianship Theatre Perform I</td>
<td>3</td>
</tr>
<tr>
<td>TH 166</td>
<td>Musicianship Theatre Perf II</td>
<td>3</td>
</tr>
<tr>
<td>THMT 174</td>
<td>Freshman Musical Theatre Voice</td>
<td>1-2</td>
</tr>
<tr>
<td>THMT 274</td>
<td>Sophomore MTVoice</td>
<td>1-2</td>
</tr>
<tr>
<td>THMT 374</td>
<td>Junior Musical Theatre Voice</td>
<td>1-2</td>
</tr>
<tr>
<td>TH 220 or</td>
<td>Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>TH 231</td>
<td>Beginning Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>TH 361 or</td>
<td>Beginning Directing</td>
<td>3</td>
</tr>
<tr>
<td>TH 470</td>
<td>Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TH 451</td>
<td>Hist Of The Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>TH 452</td>
<td>History Of The Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>TH 465</td>
<td>Musical Theatre Performance I</td>
<td>3</td>
</tr>
<tr>
<td>TH 466</td>
<td>Musical Theatre Performance II</td>
<td>3</td>
</tr>
<tr>
<td>DN 210</td>
<td>Dance Styles I</td>
<td>3</td>
</tr>
<tr>
<td>DN 310</td>
<td>Dance Styles III</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: **44-47**

**THEATRE PERFORMANCE COURSES**

Select 12 hours chosen from the following TH or THMT courses: **12**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 240</td>
<td>Beginning Movement</td>
</tr>
<tr>
<td>TH 242</td>
<td>Acting II Intro to Scene Stud</td>
</tr>
<tr>
<td>TH 440</td>
<td>Stage Movement III</td>
</tr>
<tr>
<td>TH 441</td>
<td>Acting III: Advanced Scene Study</td>
</tr>
<tr>
<td>TH 444</td>
<td>Acting 4: Comedy and Film</td>
</tr>
<tr>
<td>TH 445</td>
<td>Acting 5: Acting Shakespeare</td>
</tr>
<tr>
<td>TH 447</td>
<td>Stage Dialects</td>
</tr>
<tr>
<td>TH 467</td>
<td>Musical Theatre Repertoire Coac</td>
</tr>
<tr>
<td>THMT 474</td>
<td>Senior MTVoice</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: **12**

**DANCE TECHNIQUE COURSES**

Select 6 hours chosen from the following DN courses: **6**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 121</td>
<td>Ballet Technique I-A</td>
</tr>
<tr>
<td>DN 122</td>
<td>Ballet Technique I-B</td>
</tr>
<tr>
<td>DN 221</td>
<td>Ballet Technique II-A</td>
</tr>
<tr>
<td>DN 222</td>
<td>Ballet Technique II-B</td>
</tr>
<tr>
<td>DN 321</td>
<td>Ballet Technique III-A</td>
</tr>
<tr>
<td>DN 322</td>
<td>Ballet Technique III-B</td>
</tr>
<tr>
<td>DN 251</td>
<td>Jazz Technique II-A</td>
</tr>
<tr>
<td>DN 255</td>
<td>Beginning Tap Dance</td>
</tr>
<tr>
<td>DN 252</td>
<td>Jazz Technique II-B</td>
</tr>
<tr>
<td>DN 311</td>
<td>Modern Dance Technique III-A</td>
</tr>
<tr>
<td>DN 312</td>
<td>Modern Dance Technique III-B</td>
</tr>
<tr>
<td>DN 351</td>
<td>Jazz Technique III-A</td>
</tr>
<tr>
<td>DN 352</td>
<td>Jazz Technique III-B</td>
</tr>
<tr>
<td>DN 410</td>
<td>Advanced Tap Technique</td>
</tr>
<tr>
<td>DN 451</td>
<td>Jazz Technique IV-A</td>
</tr>
<tr>
<td>DN 452</td>
<td>Jazz Technique IV-B</td>
</tr>
</tbody>
</table>

Select an additional 6 hours chosen from the following DN courses: **6**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 452</td>
<td>Jazz Technique IV-B</td>
</tr>
<tr>
<td>DN 474</td>
<td>Musical Theatre Performance II</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: **12**

**ELECTIVES**

Select 3-6 hours from any TH or DN course **3-6**

Credit Hours Subtotal: **3-6**

Total Hours **71-77**

**Grade Point Average**

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

**Upper-level Residency**

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

**Required Minor**

The theatre major following the musical theatre track does not require the completion of a minor.

**Additional Major Requirements**

The musical theatre track is designed for students preparing for professional careers or graduate study in musical theatre. Admission is by audition, and students are expected to show continued progress in acting, singing and dance. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Commercial theatre in New York, Chicago, and Los Angeles; regional theatre; film and television; education; theme parks; cruise ships; scenery and costume studios; technical production companies.

**Types of Jobs Accepted**

Film and television performance, production personnel in regional theatre, sales and technical personnel in production companies, high school educators, community theatre technical direction and business management, graduate school.
Jobs of Experienced Alumni

Executive director at 2nd Stage, NYC (Broadway (Hamilton, Kinky Boots), Off-Broadway (Sweeney Todd), engineer at major Las Vegas production firm, national Broadway tours (Finding Neverland, Hamilton, Cinderella, Sister Act, Chicago, The Wizard of Oz, Wicked, Something Rotten), television and film acting, costume designer at major regional theater, technical director for major Broadway scenic studio, university and high school educators, management at all levels in entertainment industry

Learn more about opportunities in this field at the Career Center

Theatre, BA

A background in theatre, music, or art is most helpful but not required to be a successful theatre major. Performance experience can come from a variety of areas including high school theatre and musical performances, church plays, community theatres, etc.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students can declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

Special Opportunities

The Department of Theatre and Dance offers various areas of study leading to the BA degree in theatre. These areas include acting, musical theatre, theatre management and administration, scene design and costume design, and production. Please see the principal advisor in each of these areas for suggested courses.

The highly motivated student who seeks to be well prepared for either the profession or graduate education may choose to take more hours in the major than the specified 36. This plan of action is highly desirable and strongly advised, but is not required. If more than 42 hours are accrued in the major, the student will be exceeding the 120-credit-hour requirement for graduation by the number of hours taken over the single-subject 42-semester-hour limit.

Students earning the bachelor of arts (BA) degree with a major in theatre must complete all University, College and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor and other sufficient credits to total a minimum of 120 applicable semester hours.

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 141 Acting I</td>
<td>3</td>
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<tr>
<td>TH 220 or Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>TH 231 Beginning Costume Construction</td>
<td></td>
</tr>
<tr>
<td>TH 291 Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>TH 361 or Beginning Directing</td>
<td>3</td>
</tr>
<tr>
<td>TH 470 Theatre Management</td>
<td></td>
</tr>
<tr>
<td>TH 391 Practicum II</td>
<td>1</td>
</tr>
<tr>
<td>TH 451 Hist Of The Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>TH 452 History Of The Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>TH 491 Practicum III</td>
<td></td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>18</td>
</tr>
</tbody>
</table>

Select one hour of TH electives 300-400 level 1
Select 17 hours of TH electives 17
Credit Hours Subtotal: 18
Total Hours 36

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary Courses

The theatre major does not require ancillary courses (for exceptions, see Theatre Major: Musical Theatre Concentration (p. 1067) section of this catalog).

Required Minor

The theatre major requires the completion of a minor (for exceptions, see Theatre Major: Musical Theatre Concentration (p. 1067) section of this catalog).

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Commercial theatre in NY, Chicago and LA, regional theatre, film and television, education, theme parks, cruise ships, scenery and costume studios, technical production companies.

Types of Jobs Accepted

Film and television performance; production personnel in regional theatre; sales and technical personnel in production companies; high school educators; community theatre technical direction and business management; graduate school

Jobs of Experienced Alumni

Executive director, NYC (Broadway Theater); national Broadway tours; television and film acting; costume designer at major regional theater; university and high school educators; management at all levels in entertainment industry

Learn more about opportunities in this field at the Career Center

Theatre, BFA

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts is a new program which offers more intensive training in three areas of concentration: acting, musical theatre, and design and technical production, giving advanced, highly disciplined students the tools necessary to pursue a career on stage or screen.

BACHELOR OF FINE ARTS: ACTING CONCENTRATION
This concentration provides a rigorously structured sequence of study designed to support the actor in the development of a solid base of technique in a wide array of acting styles and methods. The curriculum is complemented by intensive training in movement and voice for the stage, and augmented by advanced study in all areas of theatre, including directing, playwriting, design, and technology. All courses are taught by a vibrant, distinguished faculty of working professionals, dedicated to partnering with students to achieve greater success, both at the University and in the world beyond.

From the first semester on campus, BFA students are provided considerable performance opportunities in the Mainstage and Studio seasons, as well as in a performance showcase tailored specifically for first year students. With their extensive national and international connections, the faculty facilitates significant performance experiences each summer, including an ongoing internship with the Colorado Shakespeare Festival, and performance opportunities with the Teatro Nacionale in Havana, Cuba, the Utah Shakespeare Festival, and the Texas Shakespeare Festival.

Throughout their academic career, students will also be exposed to the highest caliber of guest artists to enrich their training, including master classes with Broadway, television, and film casting directors, Hollywood directors, internationally recognized guest directors, and specialists in everything from Commedia to Swashbuckling. In their final year, students perform in Bama on Broadway, our NYC showcase, which has served as a successful bridge to the profession for many of our graduates.

ADMISSION PROCESS

Admission to the BFA Acting concentration is by audition and interview only. Auditions are held on campus each November and January, with dates published each fall on the department website. Students must complete the online application form (also on the website) and apply to The University of Alabama in order to be considered for admission. Students will be notified of acceptance and eligibility for possible departmental scholarship, no later than February 1. If accepted, continuance is dependent upon satisfactory development, evaluated by the acting faculty at the end of each semester.

AUDITIONS

Please visit the departmental website for up-to-date, detailed information on the audition process.

BACHELOR OF FINE ARTS: MUSICAL THEATRE CONCENTRATION

The Musical Theatre concentration in the Department of Theatre and Dance is committed to fostering a student’s talent and technique in all aspects of musical theatre. Students enjoy the advantage of being a part of a vibrant liberal arts community with the added benefit of more intimate class sizes.

Designed to prepare students for a professional career or graduate study in musical theatre, the BFA allows us to continue our solid and successful musical theatre training while providing an environment for students seeking a more specialized curriculum in the three pillars of musical theatre: acting, singing, and dancing. Please note, the Academic Common Market is not available to students in the BFA-MT concentration.

By studying Musical Theatre at UA, you will:

• work with a faculty of passionate, highly trained professionals.
• make valuable connections in professional musical theatre by participating in master classes and auditions here on campus.
• receive hands-on preparation for various employment opportunities through professional theatre conferences and on-campus auditions.
• have an invaluable, competitive edge with information and material that prepares students for a comprehensive career in the business aspects of musical theatre.
• have the opportunity to audition for participation in a senior showcase in NYC, performing for industry professionals.
• have the opportunity to perform as part of SummerTide Theatre (our professional theatre in Gulf Shores), and in student productions.

ADMISSION/RETENTION PROCESS

Admission to the BFA Musical Theatre concentration is by audition. Auditions are held on campus each November and January, with exact dates published annually on the departmental website. Students must complete the online application form (also on the website) and apply to The University of Alabama in order to be considered for admission. Students will be notified of acceptance, and eligibility for possible departmental scholarship, no later than February 1. If accepted, continuance is dependent upon satisfactory development, evaluated annually by the musical theatre faculty.

AUDITIONS

Please visit the departmental website for up-to-date information on the audition process.

NOTE: There is overlap between the material covered by both the BA and BFA, but as a whole they have distinct differences, which means what’s right for one prospective student isn’t always right for another. No matter what degree one decides to pursue, our mission is to develop the knowledge, skills, and concepts essential to the life of a musical theatre professional.

For more information, please contact Stacy Alley, Director of Musical Theatre, at 205-348-6247 or slalley@ua.edu.

BACHELOR OF FINE ARTS: DESIGN AND TECHNICAL PRODUCTION CONCENTRATION

The BFA Design and Technical Production concentration at The University of Alabama is a rigorous program designed to prepare talented and highly disciplined students for work in professional theatre. It offers competitive training in a collaborative environment. In addition to the required core theatre courses, the comprehensive curriculum includes all areas of design and technical production.

Beginning in their first year, students may be considered for a wide variety of production opportunities, including mainstage productions in the Marian Gallaway Theatre and MFA student-directed productions in the Allen Balest Theatre.

ADMISSION/RETENTION PROCESS

Admission to the BFA Design and Technical Production concentration is by portfolio review and interview only. Students must both fill out an application form for the Design and Technical Production concentration and apply to The University of Alabama. There are two Audition/Interview Days on campus each year, one in November and one in January. Individual interviews can also be arranged. If admitted, students will be notified no later than February 1. Once accepted into the program, continuance is contingent on an annual "end of year" evaluation by members of the Design and Technical Production faculty.

Admission to the program will be based on auditions, interviews, and, where appropriate, portfolio reviews. Continuance will be based upon periodic assessments. Practicums will be required in all areas of concentration. A senior project or recital will be required.
Theatre, B.F.A.

**B.F.A. Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 114</td>
<td>Intro To The Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 141</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>TH 220 or TH 231</td>
<td>Fundamentals of Stagecraft or Beginning Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>TH 361 or TH 470</td>
<td>Beginning Directing or Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TH 451</td>
<td>Hist Of The Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>TH 452</td>
<td>History Of The Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>TH 291</td>
<td>Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>TH 391</td>
<td>Practicum II</td>
<td>1</td>
</tr>
<tr>
<td>TH 191</td>
<td>Introduction to Practicum</td>
<td>1</td>
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</table>

**Total Hours**: 21

**Acting Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 240</td>
<td>Beginning Movement</td>
<td>3</td>
</tr>
<tr>
<td>TH 242</td>
<td>Acting II Intro to Scene Stud</td>
<td>3</td>
</tr>
<tr>
<td>TH 440</td>
<td>Stage Movement III</td>
<td>3</td>
</tr>
<tr>
<td>TH 441</td>
<td>Acting III: Advanced Study</td>
<td>3</td>
</tr>
<tr>
<td>TH 442</td>
<td>Careers In Prof Theatre (Careers in Acting)</td>
<td>3</td>
</tr>
<tr>
<td>TH 444</td>
<td>Acting 4: Comedy and Film</td>
<td>3</td>
</tr>
<tr>
<td>TH 445</td>
<td>Acting 5: Acting Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>TH 446</td>
<td>Adv Voice Speech Perform</td>
<td>3</td>
</tr>
<tr>
<td>TH 447</td>
<td>Stage Dialects</td>
<td>3</td>
</tr>
<tr>
<td>TH 448</td>
<td>Rehearsal Process</td>
<td>3</td>
</tr>
<tr>
<td>TH 499</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>TH 230</td>
<td>Stage Makeup</td>
<td>2</td>
</tr>
<tr>
<td>TH 361 or TH 470</td>
<td>Beginning Directing or Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TH 365</td>
<td>Stage Management</td>
<td>3</td>
</tr>
<tr>
<td>TH 482</td>
<td>Playwriting I</td>
<td>3</td>
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</table>

**Electives: Courses in Acting, Voice, Movement, Design**: 15

**Total Hours**: 59

**Musical Theatre Concentration**

**MUSICAL THEATRE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 114</td>
<td>Intro To The Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 141</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>TH 165</td>
<td>Musicianship Theatre Perform I</td>
<td>3</td>
</tr>
<tr>
<td>TH 166</td>
<td>Musicianship Theatre Perf II</td>
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</tr>
<tr>
<td>THMT 174</td>
<td>Freshman Musical Theatre Voice</td>
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<tr>
<td>THMT 274</td>
<td>Sophomore MTVoice</td>
<td>2</td>
</tr>
<tr>
<td>THMT 374</td>
<td>Junior Musical Theatre Voice</td>
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<tr>
<td>THMT 474</td>
<td>Senior MTVoice</td>
<td>2-4</td>
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<tr>
<td>TH 191</td>
<td>Introduction to Practicum</td>
<td>1</td>
</tr>
<tr>
<td>TH 291</td>
<td>Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>TH 391</td>
<td>Practicum II</td>
<td>1</td>
</tr>
<tr>
<td>DN 210</td>
<td>Dance Styles II</td>
<td>3</td>
</tr>
<tr>
<td>DN 310</td>
<td>Dance Styles III</td>
<td>3</td>
</tr>
<tr>
<td>TH 220</td>
<td>Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>TH 231</td>
<td>Beginning Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>TH 242</td>
<td>Acting II Intro to Scene Stud</td>
<td>3</td>
</tr>
<tr>
<td>TH 240</td>
<td>Beginning Movement</td>
<td>3</td>
</tr>
<tr>
<td>TH 440</td>
<td>Stage Movement III</td>
<td>3</td>
</tr>
<tr>
<td>TH 444</td>
<td>Acting 4: Comedy and Film</td>
<td>3</td>
</tr>
<tr>
<td>TH 445</td>
<td>Acting 5: Acting Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>TH 447</td>
<td>Stage Dialects</td>
<td>3</td>
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</tbody>
</table>

**Credit Hours Subtotal**: 12

**THEATRE PERFORMANCE COURSES**

Select 12 hours from the following TH or THMT courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 240</td>
<td>Beginning Movement</td>
<td>3</td>
</tr>
<tr>
<td>TH 440</td>
<td>Stage Movement III</td>
<td>3</td>
</tr>
<tr>
<td>TH 444</td>
<td>Acting 4: Comedy and Film</td>
<td>3</td>
</tr>
<tr>
<td>TH 445</td>
<td>Acting 5: Acting Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>TH 447</td>
<td>Stage Dialects</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal**: 12

**Total Hours**: 81-85

**Design/Technical Theatre Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>TH 120</td>
<td>Principles Of Stage Design</td>
<td>3</td>
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<tr>
<td>TH 220</td>
<td>Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>TH 230</td>
<td>Stage Makeup</td>
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<td>TH 231</td>
<td>Beginning Costume Construction</td>
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</tr>
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<td>TH 233</td>
<td>Beginning Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>TH 322</td>
<td>Fund Of Stage Lighting</td>
<td>3</td>
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<td>TH 365</td>
<td>Stage Management</td>
<td>3</td>
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<td>TH 415</td>
<td>Properties Construction</td>
<td>3</td>
</tr>
<tr>
<td>TH 419</td>
<td>Electricity and Electronics</td>
<td>3</td>
</tr>
<tr>
<td>TH 420</td>
<td>Technical Direction</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal**: 15

**DANCE TECHNIQUE COURSES**

Select 6 hours chosen from the following DN courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 121</td>
<td>Ballet Technique I-A</td>
<td>3</td>
</tr>
<tr>
<td>DN 122</td>
<td>Ballet Technique I-B</td>
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</tr>
<tr>
<td>DN 221</td>
<td>Ballet Technique II-A</td>
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</tr>
<tr>
<td>DN 222</td>
<td>Ballet Technique II-B</td>
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</tr>
<tr>
<td>DN 321</td>
<td>Ballet Technique III-A</td>
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<td>DN 322</td>
<td>Ballet Technique III-B</td>
<td>3</td>
</tr>
<tr>
<td>DN 421</td>
<td>Ballet Technique IV-A</td>
<td>3</td>
</tr>
<tr>
<td>DN 422</td>
<td>Ballet Technique IV-B</td>
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Select an additional 9 hours from the following DN courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 255</td>
<td>Beginning Tap Dance</td>
<td>3</td>
</tr>
<tr>
<td>DN 311</td>
<td>Modern Dance Technique III-A</td>
<td>3</td>
</tr>
<tr>
<td>DN 312</td>
<td>Modern Dance Technique III-B</td>
<td>3</td>
</tr>
<tr>
<td>DN 410</td>
<td>Advanced Tap Technique</td>
<td>3</td>
</tr>
<tr>
<td>DN 251</td>
<td>Jazz Technique II-A</td>
<td>3</td>
</tr>
<tr>
<td>DN 252</td>
<td>Jazz Technique II-B</td>
<td>3</td>
</tr>
<tr>
<td>DN 351</td>
<td>Jazz Technique III-A</td>
<td>3</td>
</tr>
<tr>
<td>DN 352</td>
<td>Jazz Technique III-B</td>
<td>3</td>
</tr>
<tr>
<td>DN 451</td>
<td>Jazz Technique IV-A</td>
<td>3</td>
</tr>
<tr>
<td>DN 452</td>
<td>Jazz Technique IV-B</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal**: 15

**Total Hours**: 54-58
Theatre, Minor

Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Minor Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 191</td>
<td>1</td>
</tr>
<tr>
<td>TH 291</td>
<td>1</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH electives 300 or 400 level</td>
<td>6</td>
</tr>
<tr>
<td>TH electives</td>
<td>14</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td><strong>20</strong></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. If necessary, students may consult with the minor department academic adviser for questions concerning minor requirements.

College of Communication and Information Sciences

Department of Advertising and Public Relations (p. 1075)
Department of Communication Studies (p. 1083)
Department of Journalism Creative Media (p. 1087)
School of Library and Information Studies (p. 1094)

General Degree Requirements

Students should refer to the Admissions (p. 897) section of this catalog for information about advanced placement, CLEP credit, CLEP subject examinations, junior college credit and transfer credit (the College of Communication and Information Sciences has final authority in decisions concerning the possible application of junior college credit and other college credit toward a student’s degree requirements). Information about academic bankruptcy, application for degree, class-hour load restrictions, concurrent enrollment, core curriculum requirements, drop/ add, the pass/fail option and second bachelor’s degrees can be found in the Academic Regulations (p. 624) section of this catalog.

In order to earn the bachelor of arts in communication degree, students must satisfy the following requirements:

Hours and Grade Point Average

All students with an undergraduate major in the College of Communication and Information Sciences must complete a minimum of 120 credit hours. Of the total number of hours required for each major, up to 16 may be earned in military science. The total hours for graduation must include the coursework specified in this catalog under the heading for the appropriate major department.

To be eligible for graduation, all students must have an overall and University of Alabama grade point average of 2.0 or higher and a grade point average of 2.0 or higher in the major and in the minor.

Grade Requirements for Courses in the Major

A student must have grades of C- or higher in all required and elective courses counted toward an undergraduate major requirements in the College of Communication and Information Sciences. In addition, grades of C- or higher must be earned in all required ancillary courses, including those established as prerequisites for courses in the major as well as those required directly in the major.

Students majoring in advertising, creative media, news media or public relations must successfully complete at least 72 hours outside the mass communication area.

Students should always check with their major department or Tisch Student Services for specific policies pertaining to a particular department or program.

Residence in the College and in the Major and Minor

While enrolled in the College of Communication and Information Sciences, students must earn a minimum of 30 hours at the University of Alabama. A minimum of 12 hours in each major and six hours in each minor must be earned at the 300 or 400 level in residence.

Independent Study by Correspondence

Credit earned by correspondence courses may not exceed 25 percent of the coursework required by the University for graduation.
Absences
Students are expected to attend all classes. Specific course attendance policies are fully explained by the professors in their course syllabi.

Policy on Prerequisites and Corequisites
College of Communication and Information Sciences students must satisfy all course and grade prerequisites and all course corequisites, including grades of C- or higher in all required and elective courses counted toward the undergraduate major requirements. A student who fails to satisfy prerequisites and corequisites before enrolling in a course may be administratively disenrolled from that course on or before the first day of classes. It is, however, the student’s responsibility to drop a course when the specified prerequisites or corequisites have not been met.

Policy on Auditing Courses
A student who is registered for 12–18 hours may audit one course, but the student may not take tests or a final examination in the audited course. No credit is earned by auditing courses.

Policy on Repeating Courses
Undergraduate students have a maximum of three attempts at completing each required course for the major with a grade of C- or higher, excluding withdrawals. If the third attempt is unsuccessful, the student will not be allowed to register for a fourth attempt without permission from the college. If that permission is not granted, the student will be unable to continue in their chosen major.

More information regarding the University Repeat Course policy can be found here: http://catalog.ua.edu/undergraduate/about/academic-regulations/records/grades-grade-points-gpa/

Department and Program Requirements

Hours in the Major
Students majoring in advertising or public relations must complete no fewer than 31 hours in the major. Students majoring in creative media must complete no fewer than 37 hours in the major. Students majoring in news media must complete no fewer than 40 hours in the major. Students majoring in communication studies must complete no fewer than 36 hours in the major. The student must satisfy the major requirements of one of the College’s departmental programs (advertising, communication studies, creative media, news media or public relations). The maximum number of hours in the College of Communication and Information Sciences that may be counted toward the degree varies from department to department.

Hours in the Minor
All students in the College of Communication and Information Sciences must complete a minor. In completing a single minor, the student is required to fulfill the requirements of the department that offers the minor. Students majoring in advertising, creative media, news media and public relations may choose to minor in communication studies within the College or to select any minor outside of the College. Students majoring in communication studies may choose to minor in advertising, creative media, news media or public relations or any minor outside of the college.

Students in the College of Communication and Information Sciences may pursue more than one minor, subject to the following restrictions:

• Communication studies majors may have no more than one minor from another degree program in the College of Communication and Information Sciences.

• Majors in advertising, creative media, news media and public relations may not minor in any College of Communication and Information Sciences department except communication studies.

• All students must complete in residence a minimum of six to nine hours of courses numbered 300 or above in their major and minor subjects, depending on department.

Double Majors
Students majoring in one of the four mass communication degree programs in the College of Communication and Information Sciences may pursue an additional major in communication studies or any department outside the college. Students majoring in communication studies may pursue an additional major in any other department in the College or on campus. The student must meet all of the requirements for the second major that are in effect at the time the second major is declared. Students are encouraged to work with their academic adviser to develop a plan for a double major. Students who seek multiple degrees must obtain 150 hours and meet the requirements of each degree. Please see the University policy for further information.

Transfer Students
Transferability refers to the conditions under which The University of Alabama accepts credit from other post-secondary institutions for inclusion in the student’s record. It is essential to have transcripts evaluated prior to enrolling in any courses in the College of Communication and Information Sciences.

A transfer student must have earned a grade point average of 2.0 or higher (on a 4.0 scale) at the institution(s) previously attended. The student must have earned a grade of C- or higher in all transferred courses that are used to satisfy major requirements in the College of Communication and Information Sciences.

A student may transfer a total of 75 percent of the course work required from another accredited four-year institution or a total of 60 hours needed for a degree from a two-year or junior college, provided that these maximum numbers do not conflict with accreditation requirements or other divisional requirements. A minimum of 25 percent of the coursework required for the degree must be earned at The University of Alabama.

Courses Outside the Major and Minor
No more than 21 hours in any single subject other than the major or minor may be applied in fulfilling the minimum-hours graduation requirement (see the Hours and Grade Point Average section under General Degree Requirements for minimums).

Specialized Minor in Other Divisions
A student interested in a specialized minor in any other division (for example, the College of Human Environmental Sciences, College of Engineering or College of Arts and Sciences) should contact that division. Students also may develop a student designed minor through New College.

Post Graduate Students
A student holding a bachelor’s degree from a regionally accredited institution of higher learning may earn a second bachelor’s degree by fulfilling a specific set of requirements at both the College and University level. Please see the University policy for requirements. In addition, the College has specific requirements found under each major/minor. A minor is not required for students seeking a second bachelor’s degree in C&IS.
Students in the College of Communication and Information Sciences should meet the general admission requirements of the University. The College has final authority in decisions concerning the possible application of junior college credit and other college credit toward a student’s major or minor requirements.

**Lower Division and Upper Division**

The curriculum of the College of Communication and Information Sciences is divided into a lower division and an upper division. The lower division consists of all College courses at the 100 and 200 levels. The upper division consists of all College courses at the 300 level or above. The College of Communication and Information Sciences has established both lower-division and upper-division requirements for students. All University of Alabama students who enroll in upper-division College courses must have met the College’s upper-division requirements. Students who enroll in College courses and do not meet the College’s requirements concerning prerequisite courses and grades will be administratively dis-enrolled on or before the first day of classes. Students who enroll in College courses and fail to attend class meetings will be assigned a grade of F-Never Attended or F-Stopped Attending.

**Lower-Division Requirements**

A student who has completed the necessary prerequisite courses with the required minimum grade of C- may enroll in lower-division College courses. Prerequisites are included in the course descriptions in this catalog, but they are subject to change.

**Upper-Division Requirements**

To enroll in upper-division College courses, a student must have completed the necessary prerequisite courses with grades of C- or higher and must have an overall grade point average of 2.0 or higher.

**Declaring a Major and Minor**

It is the student’s responsibility to declare a major through the myBama system. If a transferring student has more than 45 hours, the student must also have a GPA of 2.0 or higher and have completed an advising appointment with the department in which the student plans to major.

A candidate for a major in the College of Communication and Information Sciences must choose a minor field of study in any department or area for which he or she is eligible. All C&IS students must complete all requirements of their declared minor to graduate from the College.

**Honors College**

Qualified students in the College of Communication and Information Sciences are encouraged to participate in the Honors College. Complete information is contained in the University Honors College section of this catalog.

**Academic Advising**

C&IS freshmen and sophomores (60 hours and below) will have an assigned academic adviser in Tisch Student Services. By the time C&IS students reach 61 hours of course credit and have decided on a specific major in the College, they should contact the appropriate departmental office to be assigned an academic adviser who will be able to assist them in planning their course of study in the major. It is the responsibility of each student to consult with their adviser for assistance selecting and registering for the courses necessary to make reasonable progress, within the time period desired, toward meeting all degree requirements. This responsibility extends to seeing that all prerequisites have been fulfilled before registering for courses that have such requirements.

Any student who needs assistance with selecting courses, determining academic progress, or addressing difficulties with coursework may make an appointment with their assigned academic adviser. This assignment is indicated in DegreeWorks.

**History and Objectives**

The College of Communication & Information Sciences offers undergraduate degrees in advertising, creative media, news media and public relations, master’s degrees in advertising & public relations, book arts, communication studies, journalism, library & information studies and telecommunication & film, and an interdisciplinary doctoral degree. The College is the only communication unit in the state offering bachelor’s, master’s and doctoral degrees.

The College originated from the School of Communication, which was created on July 1, 1973, by combining the Department of Journalism (founded in 1926) and the Department of Broadcast & Film Communication (founded in 1940) with The University of Alabama Television Services (now The Center for Public Television) in a single administrative unit. The Department of Broadcast & Film Communication was later renamed to the Department of Telecommunication & Film which merged with the Department of Journalism to become the Department of Journalism & Creative Media in 2016.

During its first year in 1973, the School of Communication created an additional department, the Department of Advertising & Public Relations, from course sequences that had been part of the Department of Journalism. University Radio Services (now Alabama Public Radio) was established in 1980, as was the Communication Research & Service Center (now the Institute for Communication Research). On May 16, 1981, the Department of Speech Communication (founded in 1932, now Communication Studies) moved from the College of Arts & Sciences to the School of Communication. The former School of Communication became the College of Communication on September 9, 1988, by action of the Board of Trustees of The University of Alabama in recognition of the school’s expanded role and scope. On July 1, 1997, the College of Communication and the School of Library & Information Studies merged to form the College of Communication & Information Sciences.

The purposes of the College of Communication and Information Sciences are as follows:

- To offer courses leading to undergraduate and graduate degrees in those specialized areas necessary to prepare students to pursue careers in communication- and information-related areas.
- To provide students with a broad education that will allow them to become productive and creative citizens in society and leaders in their professions, their communities, and the nation.
- To encourage students to pursue further formal study and self-education in communication- and information-related areas.
- To engage actively in research and service.

The College prepares students for careers in the production of public communication, such as in news, media and film, for professional positions in government, business and industry requiring training in media and communication, and for educational positions requiring graduate study in specific areas of communication and information sciences. The College also provides study of the processes of human and mass communication, preparing students to be effective communicators and fostering their abilities to think critically, to express and to advocate their ideas effectively, and to understand and appreciate the diversity...
of human communication in practice. Supporting the College in these goals are the Digital Media Center, the Alabama Program in Sports Communication, the Betsy Plank Center for Leadership in Public Relations, and the Institute for Communication and Information Research.

Faculty
Dean
Mark D. Nelson
Senior Associate Dean, Administration
Beth S. Bennett
Associate Dean, Graduate Studies
William Evans
Associate Dean, Research
Kimberly Bissell
Assistant Dean, Undergraduate Studies & External Relations
Sara A. Hartley
Assistant Dean, Assessment
George Daniels
Director, Strategic Initiatives
Jim Bailey
Director, Digital Media Center
Elizabeth Brock
Director, Financial Affairs
Melanie Danner
Director, Student Services & Registrar
Alyson Jarnagin
Director, Development
Jenny Pyle
Director, College Relations
Litsa O. Rivers

Department of Advertising and Public Relations

Advertising and public relations are the disciplines organizations use to communicate with their constituencies: customers, employees, suppliers, shareholders, public-interest groups, voters and other key publics. The mission of the Department of Advertising and Public Relations (A+PR) is to prepare highly competent, socially conscious and engaged leaders to shape the future of global advertising and public relations.

The curriculum provides an analytical and conceptual approach to understanding and practicing advertising and public relations. Students also gain an appreciation of the role of these disciplines in society. Courses blend theoretical and conceptual thinking with instruction in the latest business practices. The A+PR faculty seeks to educate highly competent, focused students who will be recognized for their leadership qualities — their abilities to discern issues relating to both the practice of their profession and its role in society, to develop and execute successful communication programs, and to lead others effectively.

A total of 120 hours is required for graduation with at least 72 of those hours outside of APR, JCM and MC courses, per national accreditation guidelines.

For more information about the advertising and public relations majors, advising, internships, etc., visit apr.ua.edu.

- Majors
  - Advertising (BA) (p. 1076)
  - Public Relations (BA) (p. 1079)
- Minors
  - Advertising (p. 1079)
  - Public Relations (p. 1082)

[object Object]

APR100 Professional Exploratory
Hours 1-3

The Professional Exploratory provides the student with one of the following, depending on qualifications: 1) an opportunity to shadow advertising or PR professionals in the workplace while being introduced to current practices and trends in the field or 2) an opportunity to gain practical experience (such as an internship) in the advertising or public relations field. Enrollment is by permission of the internship coordinator (or faculty sponsor) and the departmental chairman. In order to qualify for APR 100 as a shadow opportunity for one hour of credit on a Pass/Fail basis, the student must have an overall GPA of at least a 2.0 and be a declared advertising or PR major or minor. In order to qualify for APR 100 as a practical experience opportunity for one to three hours of credit on a Pass/Fail basis, the student must have an overall GPA of a 2.0 and have completed Phase 2 of the advertising or PR major or minor coursework. This course is repeatable for a six-hour-credit maximum.

APR101 Creativity and American Culture
SB
Hours 3

A survey of the theoretical, procedural and ethical issues associated with creative thinking. Examines both individual and organizational strategies for promoting creativity, and the creative thinker’s role in shaping the culture. Also highlights the intellectual connections between the scholarship in creativity and its practical applications.

Social and Behavioral Sciences

View All Courses

Faculty

Professors
Gonzenbach, William J.
Gower, Karla K.
Ki, Eyun-Jung
Lamme, Margot O.
Phelps, Joseph E.

Associate Professors
Cooper, Caryl A.
Horsley, J. Suzanne
Khang, Kyoungkoo
Kinney, T. Lance

Assistant Professors
Brinson, Nancy
Brown, Kenon A.
Hayes, Jameson
Holiday, Steve  
Lemon, Laura  
Marshall, Coral  
Mohr, Tiffany  
Stokes, Ethan  

Instructors  
Barry, Mark  
Daria, Susan E.  
Henley, Teresa K.  
Huffaker, Randall  
Little, Michael T.  
Sims, Tracy R.  
Walker, Janet  
Waters, Gerald  
Wisla, Matt  

Professors emeritae  
Cartee, Karen Johnson  
Elebash, Camille  
Mancini, Marilyn  

Professors emeriti  
Barban, Arnold M.  
Berger, Bruce K.  
Dennis, Alan  
Melson, William H.  
Pasadeos, Yorgo  
Roche, Bruce

Advertising, BA

Students of advertising will develop and hone critical and creative thinking skills. Students will develop an understanding of the intended audience and use that understanding to create relevant messages, using powerful verbal and visual imagery capable of communicating the intended message(s) in order to capitalize on organizational opportunities and solve communication problems. The skills necessary for creating persuasive messages and developing the means to expose those messages to the intended audience will be learned in this program. These skills include the ability to conduct research to measure program needs, develop program quantifiable objectives and focused strategies, implement state-of-the-art tactics and develop the tools to measure a program’s return on investment.

Advertising is the creative expression of strategic persuasive communication. As a marketing function, advertising focuses on the promotion of products, services, companies, organizations and ideas through paid media space or time. Examples of advertising media include magazines, newspapers, television, radio, online, outdoor/transit and alternative.

Students seeking to major in advertising may pursue one of the following options:

- General advertising major (p. 1076) (32 hours): prepares students for account management and media buying
- Creative specialization: prepares students for careers in art direction (p. ) (37-39 hours) or copywriting (p. 1077) (35-39 hours); students are competitively selected for this specialization based on an application process initiated after the first phase of coursework in the major
- Consumer specialization (p. 1078) (32 hours): prepares students for careers in consumer research/insight development; students are competitively selected for this specialization based on an application process initiated after the first phase of coursework in the major

Core Curriculum and General Education Requirements for All Advertising Majors

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>COM 123</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a sequence</td>
<td>6-8</td>
</tr>
<tr>
<td>EC 110</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>APR 221</td>
<td>Introduction to Advertising</td>
<td>3</td>
</tr>
<tr>
<td>APR 270</td>
<td>Strategic Thinking (AD)</td>
<td>3</td>
</tr>
<tr>
<td>APR 280</td>
<td>Investigation and Insights</td>
<td>3</td>
</tr>
<tr>
<td>APR 300</td>
<td>Basic Principles of Design</td>
<td>3</td>
</tr>
<tr>
<td>MC 401</td>
<td>Mass Comm Law &amp; Regultn</td>
<td>3</td>
</tr>
</tbody>
</table>

Freshman Composition (FC)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Science (C) or Foreign Language (FL)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 123</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Select three hours in Fine Arts (FA)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select six hours in Literature (L)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Natural Science (N) and Mathematics (MA)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select eight hours in Natural Science (N)</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

History (HI) and Social/Behavioral Sciences (SB)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three hours in History (HI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EC 110</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Select three hours in Social/Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Writing

Select six hours of W-designated courses

Total Hours: 53-56

1 Satisfied by MC 101 Intro To Mass Communic in the major.
2 APR 322 Copywriting Seminar (only for copywriting students in the creative specialization), APR 310 Concepting (only for art direction and copywriting students in the creative specialization), APR 423 A +PR Management and MC 400-level courses with the “W” designation may be used to satisfy the writing core. Other writing core courses outside the major, such as minor courses, will also satisfy this requirement.

General Advertising Major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
<td>Intro To Mass Communnic</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103</td>
<td>Mechanics of Media Writing</td>
<td>1</td>
</tr>
<tr>
<td>APR 221</td>
<td>Intro To Advertising</td>
<td>3</td>
</tr>
<tr>
<td>APR 260</td>
<td>Software Applications I</td>
<td>1</td>
</tr>
<tr>
<td>APR 270</td>
<td>Strategic Thinking (AD)</td>
<td>3</td>
</tr>
<tr>
<td>APR 280</td>
<td>Investigation and Insights</td>
<td>3</td>
</tr>
<tr>
<td>APR 300</td>
<td>Basic Principles of Design</td>
<td>3</td>
</tr>
<tr>
<td>MC 401</td>
<td>Mass Comm Law &amp; Regultn</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one of the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 407</td>
<td>Mass Communic Research</td>
</tr>
<tr>
<td>MC 409</td>
<td>History Mass Communic</td>
</tr>
<tr>
<td>MC 413</td>
<td>Mass Comm Service &amp; Diversity</td>
</tr>
<tr>
<td>MC 421</td>
<td>Political Communication</td>
</tr>
<tr>
<td>MC 426</td>
<td>Race, Gender and Media</td>
</tr>
<tr>
<td>MC 425</td>
<td>Media Management</td>
</tr>
<tr>
<td>MC 495</td>
<td>Special Topics</td>
</tr>
<tr>
<td>APR 422</td>
<td>Channel Planning</td>
</tr>
<tr>
<td>APR 423</td>
<td>A+PR Management</td>
</tr>
<tr>
<td>APR 424</td>
<td>Advertising Campaigns</td>
</tr>
</tbody>
</table>

Total Hours 32

1 Not offered every semester
2 EC 110 Principles of Microeconomics is a prerequisite to APR 424 Advertising Campaigns.

To see the required order in which you take the courses in the general advertising major, click here.

Application to the Creative and Consumer Specializations

Admission to these specializations will be selective, and based upon a faculty panel’s evaluation of applications used to assess students’ unique qualifications for entry. The applications require students to submit two samples of creative work as evidence of their capabilities: one that demonstrates facility to solve a specific problem creatively and another that permits a longitudinal examination of their creative thinking ability.

Creative/Artistic Standards

Advertising students admitted to our specializations will be required to produce work that meets creative/artistic standards (as evaluated by qualified faculty) in order to continue taking courses in a specialization, consistent with common practice in fine and performing arts programs.

The instructor in each specialization course will evaluate each student at the end of every semester and determine whether or not a student’s work meets these standards. Students whose work falls short will discontinue coursework in the specialization and have the option to pursue the general advertising major, provided that they qualify academically.

Minors for Students Majoring in Advertising

The A+PR department requires each of its students to complete a minor, which may not comprise any advertising and public relations (APR), journalism and creative media (JCM) or mass communication (MC) courses. Advertising students minor in such diverse areas as communication studies, general business, political science, art, psychology, history, mathematics, cultural studies, and languages such as Chinese, Japanese, Russian and Spanish. No more than 27 hours in the minor may be counted toward fulfillment of graduation requirements. At least six hours in the minor must be at or above the 300 level. Two minors or a second major may be pursued. A minor is not required if the student pursues a second major.

Residence in the College and in the Major and Minor

While enrolled in the College of Communication and Information Sciences, students must earn a minimum of 30 hours on this campus. A minimum of 12 hours in each major and six hours in each minor must be earned at the 300- or 400-level in residence.

A+PR Department Requirements

Students are asked to make special note of the following Department of Advertising and Public Relations requirements.

Student Responsibility

As an A+PR student, you are here to become a leader — to shape the future of global advertising and public relations in a socially conscious manner. You are here to do the extraordinary, not just what is expected. The faculty expects you to be passionate about your work, fluent in your discipline and engaged as a learner. We are your partners in these endeavors.

It is the student’s responsibility to understand the requirements for the advertising major or minor and to seek the advice of their assigned faculty adviser when choosing coursework. Students receive adviser assignments soon after they declare the advertising major via MyBama.ua.edu, or they may go to 412 Phifer to request one. Students pursuing an advertising minor should go to 412 Phifer for an adviser assignment.

Prerequisites

A number of courses within and outside the department require other courses as prerequisites. A student who registers for any course without satisfying the proper prerequisites will be required to drop the course.

Before registering, students are advised to review course descriptions for prerequisites and other requirements.

Minimum Grade Requirement

A grade of C- or higher is required in all courses counted in the advertising major or minor. In addition, grades of C- or higher must be earned in all required external courses, including those established as prerequisites for courses in the advertising major or minor and those required directly in the major or minor. In keeping with University policy, when a course is taken more than one time, each enrollment will be counted in the cumulative hours attempted and used in computation of the grade point average, but only the final enrollment may count as credit toward the degree.

Minimum Grade Point Average

A 2.0 or higher overall grade point average is required of all students who have earned 45 hours or more of college credit and wish to transfer into the college. A student must have an overall grade point average of 2.0 or higher in order to register for any 300-level or higher-numbered course in the Department of Advertising and Public Relations.

Specializations

Creative Specialization

Once a student is accepted into the creative specialization, they may pursue one of the two focused areas of study in the specialization: art direction or copywriting. A total of at least 37 hours is required for art directors; a total of at least 35 hours is required for copywriters. APR 380 Independent Study is an optional course in the creative specialization for both art directors and copywriters. APR 325 Digital and Social Media is an optional course for copywriters.
Required Courses for Art Directors (Focused Area of Study Within the Creative Specialization)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
<td>Intro To Mass Communic</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103</td>
<td>Mechanics of Media Writing</td>
<td>1</td>
</tr>
<tr>
<td>APR 221</td>
<td>Intro To Advertising</td>
<td>3</td>
</tr>
<tr>
<td>APR 260</td>
<td>Software Applications I</td>
<td>1</td>
</tr>
</tbody>
</table>

Must apply for and be accepted into the creative specialization before you may enroll in the following courses:  

- APR 270 Strategic Thinking (AD)  
- APR 280 Investigation and Insights  
- APR 300 Basic Principles of Design  
- APR 310 Concepting  
- APR 410 Portfolio I  
- APR 301 Software Applications II  
- APR 323 Art Direction Seminar  
- MC 401 Mass Comm Law & Regultn  
- APR 401 Software Applications III  
- APR 411 Portfolio II  
- APR 424 Advertising Campaigns  

Total Hours: 37

1. With the exception of MC 401 Mass Comm Law & Regultn, which requires MC 101 Intro To Mass Communic and 61 earned hours.
2. APR 410 Portfolio I, APR 323 Art Direction Seminar and APR 301 Software Applications II are corequisites.
3. APR 401 Software Applications III and APR 411 Portfolio II are corequisites.
4. EC 110 Principles of Microeconomics is a prerequisite to APR 424 Advertising Campaigns.

To see the required order in which you take the courses in the creative specialization in the advertising major, click here.

Required Courses for Copywriters (Focused Area of Study Within the Creative Specialization)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
<td>Intro To Mass Communic</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103</td>
<td>Mechanics of Media Writing</td>
<td>1</td>
</tr>
<tr>
<td>APR 221</td>
<td>Intro To Advertising</td>
<td>3</td>
</tr>
<tr>
<td>APR 260</td>
<td>Software Applications I</td>
<td>1</td>
</tr>
</tbody>
</table>

Must apply for and be accepted into the creative specialization before you may enroll in the following courses:  

- APR 270 Strategic Thinking (AD)  
- APR 280 Investigation and Insights  
- APR 300 Basic Principles of Design  
- APR 310 Concepting  
- APR 410 Portfolio I  
- APR 301 Software Applications II  
- APR 322 Copywriting Seminar  
- MC 401 Mass Comm Law & Regultn  
- APR 411 Portfolio II  
- APR 424 Advertising Campaigns  

Total Hours: 35

1. With the exception of MC 401 Mass Comm Law & Regultn, which requires MC 101 Intro To Mass Communic and 61 earned hours.

Types of Jobs Accepted  
Graduates find employment at advertising or public relations agencies, advertising, public relations, or promotional departments of businesses, industries and government agencies and with traditional and nontraditional media outlets.

Jobs of Experienced Alumni  
Owners, presidents & CEOs of advertising agencies, vice president–corporate communication, professors, art directors, account executives, etc.

Learn more about opportunities in this field at the Career Center.

General Advertising Major Suggested Plan of Study  

### Freshman  

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR 260</td>
<td>1 APR 221</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
### Advertising, Minor

#### Admission into the Minor

Students must declare the advertising minor before enrolling in APR 260 Software Applications I.

Only students outside the College of Communication and Information Sciences (with the exception of communication studies majors) may select the advertising minor consisting of 20 credit hours. A grade of C- or higher is required in all courses required for the advertising minor. Due to the prerequisite-based curriculum, it takes at least three semesters to complete the hours in the advertising minor.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101 Intro To Mass Commun</td>
<td>3</td>
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<tr>
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<td>1</td>
</tr>
<tr>
<td>APR 221 Intro To Advertising</td>
<td>3</td>
</tr>
<tr>
<td>APR 260 Software Applications I</td>
<td>1</td>
</tr>
<tr>
<td>APR 270 Strategic Thinking (AD)</td>
<td>3</td>
</tr>
<tr>
<td>APR 280 Investigation and Insights</td>
<td>3</td>
</tr>
<tr>
<td>APR 300 Basic Principles of Design</td>
<td>3</td>
</tr>
<tr>
<td>APR 422 Channel Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Total Hours: 120-122

### Grade Point Average

A grade point average of at least a 2.0 in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

#### Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned in residence.

#### Ancillary Courses

This minor does not require ancillary courses.

#### Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. Each student must meet with an adviser in the major department for academic planning each semester. Students are encouraged to get their advertising minor advising from the Department of Advertising and Public Relations (412 Phifer).

### Public Relations, BA

Success requires a passion for learning about public relations. This program will lead students in developing skills necessary for creating persuasive messages and the means to expose those messages to the intended audience. This includes the ability to conduct research to measure program needs, develop program quantifiable objectives and focused strategies, implement state-of-the-art tactics and master the tools to measure a program’s return on investment. Students of public relations will develop and hone critical and creative thinking skills.

### Requirements

Public relations is a proactive, strategic function that strives to mesh the interests of an organization and its publics. Public relations professionals build and maintain those relationships that are essential to the organization’s success — or failure — by applying research skills, visual thinking, strategic planning and effective writing.

### Core Curriculum and General Education Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
<tr>
<td>6-8</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

### Freshman Composition (FC)

Select one of the following:

- EN 101 English Composition
- EN 102 English Composition
- EN 103 Advanced English Composition

### Computer Science (C) or Foreign Language (FL) sequence

Select six to eight hours

- COM 123 Public Speaking
- Select three hours in Fine Arts (FA)
Select six hours in Literature (L) 6

Natural Science (N) and Mathematics (MA)
Select eight hours in Natural Science (N) 8
Select three to four hours in MATH 110 or higher 3-4

History (HI) and Social/Behavioral Sciences (SB)
Select three hours in History (HI) 3
Select six hours in Social/Behavioral Sciences 1 6
Select three hours in History or Social/Behavioral Sciences 3
Writing (W-designated courses) 2 6

Options
Select an option 38

Total Hours 91-94

1 Three hours are satisfied by MC 101 Intro To Mass Communic in the major; EC 110 Principles of Microeconomics is recommended.
2 JCM 303 News Writing and Reporting and APR 332 Public Relations Writing in the major will satisfy the writing core.

General Public Relations Major
General public relations major (38 hours): prepares students for a wide variety of public relations careers.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
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<tr>
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<td>1</td>
</tr>
<tr>
<td>APR 231</td>
<td>Intro Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>APR 260</td>
<td>Software Applications I</td>
<td>1</td>
</tr>
<tr>
<td>APR 271</td>
<td>Strategic Thinking (PR)</td>
<td>3</td>
</tr>
<tr>
<td>APR 280</td>
<td>Investigation and Insights</td>
<td>3</td>
</tr>
<tr>
<td>APR 300</td>
<td>Basic Principles of Design</td>
<td>3</td>
</tr>
<tr>
<td>JCM 303</td>
<td>News Writing and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>APR 332</td>
<td>Public Relations Writing 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:

| APR 415 | Online Magazine Writing 1, 2 | |
| APR 419 | Concepting and Implementation 1 | |
| APR 423 | A+PR Management | 1 |
| APR 425 | Crisis & Emer. Mgt. 1 | |
| APR 426 | International Public Relations 1 | |
| APR 427 | Public Relations Leadership 1 | |
| MC 401 | Mass Comm Law & Regultn | 3 |
| APR 433 | Public Relations Campaigns | 3 |

Total Hours 38

1 Students must have earned at least 20 hours in the major to take these courses.
2 Students are admitted by application and instructor’s permission to this course.

To see the required order in which you take the courses in the general public relations major, click here.

Minors for Students Majoring in Public Relations
The A+PR department requires each of its students to complete a minor, which may not include any advertising and public relations (APR), journalism (JN), mass communication (MC) or telecommunication and film (TCF) courses. Public relations students minor in such diverse areas as communication studies, general business, political science, art, psychology, history, mathematics or cultural studies, or languages such as Chinese, Japanese, Russian or Spanish. No more than 27 hours in the minor may be counted toward fulfillment of graduation requirements. At least six hours in the minor must be at or above the 300 level. Two minors or a second major may be pursued. A minor is not required if the student pursues a second major.

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A+PR Department Requirements
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It is the student’s responsibility to understand the requirements for the advertising major or minor and to seek the advice of their assigned faculty adviser when choosing coursework. Freshman and sophomore students (with 60 or fewer earned hours) receive adviser assignments from Tisch Student Services soon after they declare the advertising major via MyBama.ua.edu, or they may go to 190 Phifer to request one. Juniors and seniors (with 60+ earned hours) seeking to major in advertising or students pursuing an advertising minor should go to 412 Phifer for an adviser assignment.

Prerequisites
A number of courses within and outside the department require other courses as prerequisites. A student who registers for any course without satisfying the proper prerequisites will be required to drop the course. Before registering, students are advised to review course descriptions for prerequisites and other requirements.

Minimum Grade Requirement
A grade of C- or higher is required in all courses counted in the public relations major or minor. In addition, grades of C- or higher must be earned in all required external courses, including those established as prerequisites for courses in the public relations major or minor and those required directly in the major or minor. In keeping with University policy, when a course is taken more than one time, each enrollment will be counted in the cumulative hours attempted and used in computation of the grade point average, but only the final enrollment may count as credit toward the degree.

Minimum Grade Point Average
A 2.0 or higher overall grade point average is required of all students who have earned 45 hours or more of college credit and wish to transfer into the college. A student must have an overall grade point average of 2.0 or
higher in order to register for any 300-level or higher-numbered course in the department of advertising and public relations.

**Specializations**

**Nonprofit Communication Management Specialization**

*Nonprofit communication management specialization (38 hours): prepares students for public relations careers in the nonprofit industry.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103</td>
<td></td>
</tr>
<tr>
<td>APR 231</td>
<td>1</td>
</tr>
<tr>
<td>APR 260</td>
<td>1</td>
</tr>
<tr>
<td>APR 271</td>
<td>3</td>
</tr>
<tr>
<td>APR 280</td>
<td>3</td>
</tr>
<tr>
<td>APR 300</td>
<td>3</td>
</tr>
<tr>
<td>JCM 303</td>
<td>3</td>
</tr>
<tr>
<td>APR 332</td>
<td>3</td>
</tr>
<tr>
<td>APR 428</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES 450</td>
<td>3</td>
</tr>
<tr>
<td>PSC 321</td>
<td>3</td>
</tr>
<tr>
<td>PSC 365</td>
<td>3</td>
</tr>
<tr>
<td>PSC 464</td>
<td>3</td>
</tr>
<tr>
<td>MUS 326</td>
<td>3</td>
</tr>
<tr>
<td>&amp; APR 100</td>
<td>3</td>
</tr>
<tr>
<td>MUS 407</td>
<td>3</td>
</tr>
<tr>
<td>TH 470</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR 415</td>
<td>3</td>
</tr>
<tr>
<td>APR 419</td>
<td>3</td>
</tr>
<tr>
<td>APR 423</td>
<td>3</td>
</tr>
<tr>
<td>APR 425</td>
<td>3</td>
</tr>
<tr>
<td>APR 426</td>
<td>3</td>
</tr>
<tr>
<td>APR 427</td>
<td>3</td>
</tr>
<tr>
<td>MC 401</td>
<td>3</td>
</tr>
<tr>
<td>APR 433</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 38

1 Students must have earned at least 20 hours in the major to take these courses.
2 Students are admitted by application and instructor’s permission to this course.
3 Must be American Public Policy as the special topic.

**To see the required order in which you take the courses in the nonprofit communication management specialization in the PR major, click here.**

**Technological and Digital Communication Management Specialization**

*Technological and digital communication management specialization (38 hours): prepares students for public relations careers in the tech/digital communications industry.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103</td>
<td>1</td>
</tr>
</tbody>
</table>

**To see the required order in which you take the courses in the tech and digital communication management specialization in the PR major, click here.**

**Sport and Entertainment Communication Management Specialization**

*Sport and entertainment communication management specialization (38 hours): prepares students for public relations careers in the sport and entertainment industries.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103</td>
<td>1</td>
</tr>
<tr>
<td>APR 231</td>
<td>3</td>
</tr>
<tr>
<td>APR 260</td>
<td>1</td>
</tr>
<tr>
<td>APR 271</td>
<td>3</td>
</tr>
<tr>
<td>APR 280</td>
<td>3</td>
</tr>
<tr>
<td>APR 300</td>
<td>3</td>
</tr>
<tr>
<td>JCM 303</td>
<td>3</td>
</tr>
<tr>
<td>APR 332</td>
<td>3</td>
</tr>
<tr>
<td>APR 429</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES 460</td>
<td>3</td>
</tr>
<tr>
<td>MUS 315</td>
<td>3</td>
</tr>
</tbody>
</table>

**To see the required order in which you take the courses in the tech and digital communication management specialization in the PR major, click here.**
TH 470  Theatre Management
Select one of the following:  3
   APR 415  Online Magazine Writing  1, 2  
   APR 419  Concepting and Implementation  1  
   APR 423  A+PR Management  1  
   APR 425  Crisis & Emer. Mgt.  1  
   APR 426  International Public Relations  1  
   APR 427  Public Relations Leadership  1  
MC 401  Mass Comm Law & Regultn  3  
APR 433  Public Relations Campaigns  1  3
Total Hours  38
1 Students must have earned at least 20 hours in the major to take these courses.
2 Students are admitted by application and instructor's permission to this course.
3 Must be Sports, News and Society as the special topic.

To see the required order in which you take the courses in the sport and entertainment communication management specialization in the PR major, click here.

Graduates find employment at public relations and advertising agencies, the public relations or promotional departments of businesses, industries and government agencies, and with traditional and nontraditional media outlets.

Types of Jobs Accepted
Our graduates work as account executives, media sales representatives, photographers, researchers, production specialists, media consultants, management advisers, public opinion surveyors and marketing researchers.

Jobs of Experienced Alumni
Owners, presidents & CEOs of public relations agencies, vice president—corporate communication, shareholder relations, media relations, professors, account executives, etc.

Learn more about opportunities in this field at the Career Center.

Public Relations, Minor
Admission into the Minor
Students must declare the public relations minor before enrolling in APR 260 Software Applications I.

Only students outside the College of Communication and Information Sciences (with the exception of communication studies majors) may select the public relations minor consisting of 23-26 credit hours. A grade of C- or higher is required in all courses required for the public relations minor. Due to the prerequisite-based curriculum, it takes at least three semesters to complete the hours in the public relations minor.

<table>
<thead>
<tr>
<th>Minor Courses 1</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101  Intro To Mass Communic</td>
<td>3</td>
</tr>
<tr>
<td>JCM 103  Mechanics of Media Writing</td>
<td>1</td>
</tr>
<tr>
<td>APR 260  Software Applications I</td>
<td>1</td>
</tr>
<tr>
<td>APR 231  Intro Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>APR 271  Strategic Thinking (PR)</td>
<td>3</td>
</tr>
<tr>
<td>APR 280  Investigation and Insights</td>
<td>3</td>
</tr>
<tr>
<td>APR 300  Basic Principles of Design</td>
<td>3</td>
</tr>
<tr>
<td>JCM 303  News Writing and Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>

General Public Relations Major Suggested Plan of Study

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR 260</td>
<td>1 APR 231</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>JCM 103</td>
<td>1 EN 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MC 101</td>
<td>3 MATH 110 or higher or equivalent (MA)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EN 101</td>
<td>3 History (HI) or social/behavioral science (SB)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>History (HI)</td>
<td>3 Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR 271</td>
<td>3 APR 300</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>APR 280</td>
<td>3 JCM 303</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Types of Jobs Accepted

Our graduates work as account executives, media sales representatives, photographers, researchers, production specialists, media consultants, management advisers, public opinion surveyors and marketing researchers.

Jobs of Experienced Alumni

Owners, presidents & CEOs of public relations agencies, vice president—corporate communication, shareholder relations, media relations, professors, account executives, etc.

Learn more about opportunities in this field at the Career Center.

Public Relations, Minor

Admission into the Minor

Students must declare the public relations minor before enrolling in APR 260 Software Applications I.

Only students outside the College of Communication and Information Sciences (with the exception of communication studies majors) may select the public relations minor consisting of 23-26 credit hours. A grade of C- or higher is required in all courses required for the public relations minor. Due to the prerequisite-based curriculum, it takes at least three semesters to complete the hours in the public relations minor.

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<td>1</td>
</tr>
<tr>
<td>APR 260  Software Applications I</td>
<td>1</td>
</tr>
<tr>
<td>APR 231  Intro Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>APR 271  Strategic Thinking (PR)</td>
<td>3</td>
</tr>
<tr>
<td>APR 280  Investigation and Insights</td>
<td>3</td>
</tr>
<tr>
<td>APR 300  Basic Principles of Design</td>
<td>3</td>
</tr>
<tr>
<td>JCM 303  News Writing and Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>
Students pursuing a public relations minor have the option of taking APR 415 Online Magazine Writing, which requires permission of the instructor; approval is based on an application and interview process.

To see the required order in which you take the courses in the public relations minor, click here.

Grade Point Average
A grade point average of at least 2.0 in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- or 400-level courses in the minor must be earned in residence.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. Each student must meet with an adviser in the major department for academic planning each semester. Students are encouraged to get their public relations minor advising from the Department of Advertising and Public Relations (412 Phifer).

Department of Communication Studies
Communication studies majors may choose from COM courses that meet the general requirements for the major, or they may focus their choices in one of the following areas of study: rhetoric and public discourse, interpersonal and organizational communication, or communication and culture. Graduating with a degree in communication studies, students may pursue an array of professions, such as teaching, lobbying, human resources, sales, social work, the ministry, special events planning, or speech writing, or they may advance to graduate study in such fields as communication, education, management, or law.

- Major
  - Communication Studies (BA) (p. 1084)
- Minor
  - Communication Studies (p. 1087)
- Certificate
  - Leadership Communication Program (LCP) (p. 1087)

COM100 Rhetoric And Society
HU
Hours 3
The impact of public discourse on the ideas and issues of culture and history. Offered in the fall semester. HU designation for university core curriculum.

Humanities

COM101 Principles Human Communication
SB
Hours 3
General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals. The focus is on identifying the foundation of human communication and the functions of communication in everyday situations. Offered in the spring semester. SB designation for university core curriculum.

Social and Behavioral Sciences
View All Courses

Faculty
Chair
Bennett, Beth S.

Associate professors
Bagley, Meredith
Boylorn, Robin M.
Carmack, Heather
Meares, Mary M.
Mills, Carol Bishop

Assistant professors
Becker, Jennifer
Brooks, Adam Sharples
Butler, Sim
Chilcutt, Alexa S.
Griffin, Darrin J.
Harris, Nikita Y.
Jensen, Peter
LeFebvre, Leah
Ohl, Jessy
Parsons, Caroline
Peacock, Cynthia
Pederson, Joshua R.

Instructors
Billings, Angela
Harrison, Cory Paul
Imbody, Robert

Professors
Bennett, Beth S.
Gaines, Robert N.
Nelson, Mark D.

Professor emeritus
Harris, Thomas

Associate professor emeritus
Thompson, Frank M., Jr.
Communication Studies, BA

Courses in this discipline offer the knowledge and skills that are essential to becoming a leader in a complex world. Students learn to analyze, evaluate, and critique human communication practices in a variety of contexts. They also develop the intellectual resources needed to articulate their own ideas and to share them with others. The department also supports a diversified program of co-curricular speaking activities in competitive individual events, argument, and debate and in peer consulting through the Speaking Studio. Members of the Alabama Forensic Council participate in regional and national intercollegiate competitions. Students in the Alabama Debate Society participate in high school debate outreach as well as exhibitions, and students in the public speaking program may compete for the Oscar Newton Outstanding Speaker Prize. Majors who meet the requirements for membership in Lambda Pi Eta are invited to join the honorary and to participate in its service activities.

Accelerated Masters Program (AMP) in Communication Studies

Communication studies majors admitted into this program will be able to earn both the BA and MA in communication studies at The University of Alabama in five years. For the highly motivated and academically gifted student, this program offers several distinct advantages:

- Faster, more economical plan of study than earning the two degrees separately
- Richer undergraduate degree experience, fewer unrelated core courses and more courses in the major
- Stronger mentoring relationship with the faculty
- Greater opportunity to develop understanding of the field in preparation for doctoral work

Students may be admitted into this program, after completing 91 semester hours with a 3.3 GPA or better, by applying for admission to the Graduate School. Admission to the Graduate School will be granted if the student has (a) met all the admission criteria for the graduate program, (b) completed three-fourths of the hours required for the major and the minor, and (c) been recommended for admission by the department. Upon admission to the Graduate School, the student will be allowed to take graduate-level courses and begin a program of study leading to the Master of Arts in communication studies. Once enrolled in AMP, communication studies students may count up to 10 hours of credit dually (toward both degrees).

Core Curriculum and General Education Requirements

A total of 120 hours is required for graduation, 33 hours of which must be in upper-division courses (at the 300- or 400-level). The College requires that 12 of these upper-division hours be outside of the major (COM). This College requirement may be met with upper-division courses in the minor.

<table>
<thead>
<tr>
<th>Freshman Composition (FC)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101 English Composition (or by exam or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>EN 102 English Composition (or by exam or equivalent)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Humanities (HU) and Fine Arts (FA)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Arts (FA)</td>
<td>3</td>
</tr>
<tr>
<td>Literature (L)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU)</td>
<td>6</td>
</tr>
</tbody>
</table>

May include the following:

- COM 100 Rhetoric And Society
- COM 121 Crit Decisn Making Honors
- COM 122 Critical Decision Making
- COM 123 Public Speaking
- COM 124 Honors Public Speaking
- COM 210 Oral Interpretn Literatr

Credit Hours Subtotal: 18

<table>
<thead>
<tr>
<th>Natural Science (N) and Mathematics (MA)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Science (N)</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics (MA)</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 11

<table>
<thead>
<tr>
<th>History (HI) and Social/Behavioral Sciences (SB)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History Sequence (HI)</td>
<td>6</td>
</tr>
<tr>
<td>Social/Behavioral Sciences (SB)</td>
<td>6</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 12

Pre-major Requirements

- COM 100 or Rhetoric And Society 3
- COM 101 Principles Human Communication 3

Foreign Language (FL) or Computer Science (CS) 6-8

Credit Hours Subtotal: 9-11

W-designated Courses in the Major

Select a minimum of six hours of the following:

- COM 300 Human Communication Research 6
- COM 310 Rhetorical Criticism
- COM 341 Rhetoric & Amer Politics
- COM 342 Rhetoric Social Protest
- COM 413 Communication & Diversity
- COM 415 African American Rhetoric
- COM 450 Adv Organization Communication
- COM 463 Relational Communication
- COM 465 Intercultural Communication

Credit Hours Subtotal: 6

Total Hours 56-58

1 These courses are cross-listed as meeting core requirements as well as the major.

2 Select a minimum of six hours of Writing courses (W), at least three hours of which must be in the major (COM) as COM 300 Human Communication Research or COM 310 Rhetorical Criticism.

Communication Studies Major

Overall, a total of 33 hours are required in upper-division courses (at the 300-400 level), including a minimum of 21 hours in the major (COM) and of 12 hours outside the major, which may be fulfilled by courses in the minor. No more than 45 hours in Communication Studies (COM) may be counted toward the total number of hours required for graduation (120).

To major in Communication Studies, a minimum of 36 hours of courses in Communication Studies is required. The program of instruction should be planned in consultation with a faculty advisor and includes one or
two courses from each of the required areas specified below, along with COM 499 Capstone Seminar, for a total of 21 hours in requirements and a minimum of 15 hours in elective COM courses:

Theoretical Foundations (3 hours)
Select at least one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 100</td>
<td>Rhetoric And Society</td>
<td>3</td>
</tr>
<tr>
<td>COM 101</td>
<td>Principles Human Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Oral Performance Skills (6 hours)
Select at least one of the following Oral Performance courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 104</td>
<td>Forensics (this course may be repeated for up to 6 hours credit)</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>Crit Decisn Making Honors</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 122</td>
<td>Critical Decision Making</td>
<td></td>
</tr>
<tr>
<td>COM 123</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 124</td>
<td>Honors Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

May also select an Advanced Oral Performance course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 210</td>
<td>Oral Interpretn Literatr</td>
<td>3</td>
</tr>
<tr>
<td>COM 323</td>
<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COM 348</td>
<td>Argumentation</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Methods and Analysis W Course (3 hours)
Select at least one of the following W courses, after completion of designated prerequisite:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 300</td>
<td>Human Communication Research</td>
<td>3</td>
</tr>
<tr>
<td>COM 310</td>
<td>Rhetorical Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

Writing Skills in Communication Studies (3 hours)
Select an additional W-designated COM course to complete Gen Ed requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 341</td>
<td>Rhetoric &amp; Amer Politics</td>
<td>3</td>
</tr>
<tr>
<td>COM 342</td>
<td>Rhetoric Social Protest</td>
<td>3</td>
</tr>
<tr>
<td>COM 413</td>
<td>Communication &amp; Diversity</td>
<td>3</td>
</tr>
<tr>
<td>COM 415</td>
<td>African American Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>COM 450</td>
<td>Adv Organization Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 463</td>
<td>Relational Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 465</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Capstone Experience (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 499</td>
<td>Capstone Seminar 2,3</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Total Hours: 18

1. NOTE: Although not required, the department strongly recommends that Communication Studies majors take both COM 100 Rhetoric And Society and COM 101 Principles Human Communication.
2. Intended to be taken in the final semester of coursework
3. May not be taken prior to the completion of a theory foundation/method and analysis course combination, either COM 100/COM 310 or COM 101/COM 300

COM Elective Courses

Through the selection of elective courses, Communication Studies majors may choose to emphasize one of the following focused areas of study: rhetoric and public discourse, interpersonal and organizational communication, or communication and culture. Communication Studies majors do not have to select an area of emphasis for their elective coursework; however, they are encouraged to plan their individual programs of study with the guidance of their departmental faculty adviser. The courses listed below for each of these areas are recommendations, not requirements.

Rhetoric and Public Discourse

This emphasis area focuses on argumentation, the effective construction and critical analysis of persuasive public messages, and the role of rhetoric in constructing, sustaining, or changing the political, social, or cultural order. This area also focuses on communication theories and practices evident in public (political, social, cultural) discourse, artifacts, and campaigns. Attention is given to such areas of analysis and practice as public speaking, argumentation and debate, and the role of media in various public contexts. The area is an ideal pre-professional emphasis for students interested in careers in the legal profession, and this emphasis area is one means of helping pre-law students prepare broadly for that career. Recommended minors for students who choose this emphasis area include American Studies, Criminal Justice, English, Gender and Race Studies, History, Journalism and Creative Media, Philosophy, or Political Science.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 225</td>
<td>Small Group Communicat</td>
<td>3</td>
</tr>
<tr>
<td>COM 301</td>
<td>Intro Rhetoric Theory</td>
<td>3</td>
</tr>
<tr>
<td>COM 323</td>
<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COM 341</td>
<td>Rhetoric &amp; Amer Politics</td>
<td>3</td>
</tr>
<tr>
<td>COM 342</td>
<td>Rhetoric Social Protest</td>
<td>3</td>
</tr>
<tr>
<td>COM 348</td>
<td>Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>COM 366</td>
<td>Visual Culture &amp; Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 380</td>
<td>Influence</td>
<td>3</td>
</tr>
<tr>
<td>COM 413</td>
<td>Communication &amp; Diversity</td>
<td>3</td>
</tr>
<tr>
<td>COM 415</td>
<td>African American Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>COM 421</td>
<td>Political Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 425</td>
<td>Gender &amp; Political Communctn</td>
<td>3</td>
</tr>
<tr>
<td>COM 460</td>
<td>Group Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COM 467</td>
<td>Seminar Public Address</td>
<td>3</td>
</tr>
<tr>
<td>COM 469</td>
<td>Communication &amp; Gender</td>
<td>3</td>
</tr>
</tbody>
</table>

Communication and Culture

This emphasis area explores public communication in a wide variety of contexts and settings. The focus is on the influence of rhetoric and visual communication on individuals, communities, and the larger social world. Students interested in careers involving community or social change or human services (e.g., the ministry), or in postgraduate study in communication studies or media studies should consider this emphasis. Recommended minors for students who choose this emphasis area include Anthropology, Advertising, American Studies, Apparel and Textiles, Art History, English/Creative Writing, Gender and Race Studies, International Studies, Journalism and Creative Media, Modern Languages, Public Relations, Religious Studies, or Theatre.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 270</td>
<td>Discourse of Sport</td>
<td>3</td>
</tr>
</tbody>
</table>
Sample Curriculum for the Communication Studies Major

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 100</td>
<td>3 COM 101</td>
<td>3</td>
</tr>
<tr>
<td>&amp; HU designated course (or elective)</td>
<td>&amp; SB designated course (or elective)</td>
<td>3</td>
</tr>
<tr>
<td>EN 101</td>
<td>3 EN 102</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts (FA)</td>
<td>3 Mathematics (MA)</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science (SB)</td>
<td>3 Social/Behavioral Science (SB)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science (N)</td>
<td>4 Natural Science (N)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 122</td>
<td>3 COM 210, 323, 348, 122, 123, 124, or 104</td>
<td>3</td>
</tr>
<tr>
<td>&amp; HU designated courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Literature Course (L)</td>
<td>3 COM 200 level elective</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language or</td>
<td>4-3 Foreign Language or Computer Science (FL or C)</td>
<td>4-3</td>
</tr>
<tr>
<td>Computer Science (FL or C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History sequence I (HI)</td>
<td>3 History sequence II (HI)</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences (SB)</td>
<td>3 Minor elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16-15</td>
<td>16-15</td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 300 or 310</td>
<td>3 COM (W) elective</td>
<td>3</td>
</tr>
<tr>
<td>COM 300–495 electives</td>
<td>6 COM 300–495 electives</td>
<td>6</td>
</tr>
<tr>
<td>Minor, 300-499</td>
<td>3 Minor, 300-499</td>
<td>3</td>
</tr>
<tr>
<td>Minor elective</td>
<td>3 Minor elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 300–495 electives</td>
<td>6 COM 499</td>
<td>3</td>
</tr>
<tr>
<td>Minor, 300–499 level</td>
<td>3 Minor, 300–499 level</td>
<td>3</td>
</tr>
<tr>
<td>Minor or general electives</td>
<td>3-4 COM or general electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>12-13</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Hours: 121-120

Faculty
Professors
Beth S. Bennett
Robert N. Gaines
Mark D. Nelson

Associate professors
Meredith Bagley
Robin Boylorn
Heather Carmack
Mary M. Meares
Carol Bishop Mills

Interpersonal and Organizational Communication

The focus of this area is on knowledge and skills vital to successful interpersonal communication in personal, family or group, and organizational or professional settings. Emphases include social, cognitive, and cultural influences on personal and professional interaction and such skills as conflict resolution, small group problem solving, effective interviewing, and intercultural communication. It is appropriate for students interested in professional and administrative careers in business, educational or human services, and media organizations. Recommended minors for students who choose this emphasis area include advertising, consumer sciences, economics, general business, human development and family studies, international studies, journalism and creative media, management, psychology, public relations, real estate, sociology, social welfare or world business.

Types of Jobs Accepted

Career opportunities most frequently sought by communication studies majors are in law, education, politics, public relations, management, ministry, sales, training and development.

Learn more about opportunities in this field at the Career Center.
Assistant professors
Jennifer Becker
Adam Sharples Brooks
Sim Butler
Alexa S. Chilcutt
Darrin Griffin
Nikita Y. Harris
Peter R. Jensen
Leah LeFebvre
Jessy Ohl
Caroline S. Parsons
Cynthia Peacock
Josh Pederson

Instructors
Angela Billings
Cory Paul Harrison
Robert Imbody

Chair
Beth S. Bennett

Professor emeritus
Thomas Harris

Associate professor emeritus
Frank M. Thompson, Jr.

Adjuncts
Jane S. Baker

Communication Studies, Minor
Admission into the Minor
Students are expected to declare their minor officially in DegreeWorks, before or during the third year of full-time enrollment. Once declared, COM minors may seek advising assistance for selecting electives appropriate for their major course of study from Tisch Student Services academic advisors for the College or from the departmental undergraduate program coordinator in communication studies.

A minor in communication studies may be earned online by students registered as distance learners.

The minor in Communication Studies requires 18 hours of coursework in the department, including COM 100 Rhetoric And Society or COM 101 Principles Human Communication and at least six hours of upper-division courses (at the 300 or 400 level). A grade of C- or higher is required in all Communication Studies (COM) courses counted toward the minor.

Grade Point Average
A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency
A minimum of six hours of upper-division courses, at the 300- or 400-level, in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
A grade of C- or higher is required in all Communication Studies courses counted toward the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. Students minoring in Communication Studies may ask to meet with an adviser in Tisch Student Services or with the departmental Undergraduate Program Coordinator in Communication Studies for academic planning in the minor or to be cleared for registration purposes.

Leadership Communication Program (LCP), Certificate
Offered by the Department of Communication Studies, the Leadership Communication Program (LCP) is a certificate program designed to give students from around the University the opportunity to focus on the development of their communication skills in organizations with diverse groups of people, as well as the development of their leadership skills in action, through service learning and supervised study.

The Leadership Communication Program Certificate consists of 15 hours of the following:

<table>
<thead>
<tr>
<th>Core Competencies</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 220 or Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 225 Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 350 Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 460 Group Leadership</td>
<td>3</td>
</tr>
<tr>
<td>Capstone Course: Communication Training and Development</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>COM 413 Communication &amp; Diversity</td>
<td></td>
</tr>
<tr>
<td>COM 469 Communication &amp; Gender</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 15

The capstone course has a service-learning component in a not-for-profit environment and provides certificate students with hands-on experience with organizational audits and communication training. Candidates for the certificate must complete an application form before the certificate can be awarded. Application forms must be completed and submitted no later than the semester prior to the semester of graduation.

Department of Journalism & Creative Media
The Department of Journalism & Creative Media offers undergraduate degrees in news media and creative media, as well as three minors open to students from all academic colleges across the University. JCM also has one master’s of arts degree in Journalism which can be completed either online or on-campus. On-campus students have an option of a two year thesis track or a one year professional track focusing on community journalism, which partners with the Anniston (AL) Star.

The field of journalism is about gathering, analyzing and communicating important information in a meaningful way. News Media majors can take classes in areas including electronic reporting, visual and multimedia journalism, and specialized writing classes. These students can also declare a concentration in sports media.

The major of Creative Media focuses on the film industry, examining how to write, produce, edit and critique fictional and non-fictional material. Creative Media majors can take classes in media production, production management, critical studies in film and television, and fiction/nonfiction filmmaking.

For more information about the specific programs, click the links below or visit jcm.ua.edu.

- Majors
  - News Media (BA) (p. 1089)
  - Creative Media (BA) (p. 1091)
- Minors
  - News Media (p. 1091)
  - Creative Media (p. 1093)
  - Sports Media (p. 1093)

**Minors, Second Majors and Electives**

Popular minors and second majors are found in the following areas: American Studies, Anthropology, Art, Classics, Communication Studies, Consumer Sciences, Creative Writing, Criminal Justice, Dance, Economics, English, Foreign Language, General Business, History, Human Development and Family Studies, Philosophy, Political Science, Psychology, Religion, Sociology, Theater and Women’s Studies. The department encourages second majors where possible, especially within the College of Arts & Sciences.

**Grades**

To receive credit toward graduation, a student must receive a C- or higher for all courses in the College of Communication & Information Sciences. Students must have an overall grade point average of 2.0 to enroll in upper division courses in the College.

**Major Status**

Students should declare their major and minor as soon as possible by completing the Change of Major/Minor Application online under the Student tab of myBama.

**Advising Assistance**

Freshmen and sophomores (students with 60 hours or less) will be assigned professional advisers in Tisch Student Services, and upperclassmen will be assigned individual faculty advisers who will be listed in DegreeWorks. Students should use DegreeWorks to check their progress and make academic plans to help them graduate on time. The formal advising period occurs during registration each semester; however, if questions or special problems arise, students may make appointments with their academic adviser or contact the departmental office at any time during the semester.
News Media, BA

In a digital age, information is increasingly important to all professions, but it is truly at the heart of the journalism industry. The news media major stresses the gathering, analysis, and communication of information for all kinds of audiences. Students learn the many ways information is produced by journalists, from the traditional practices of professional news outlets to the emerging practices of media start-ups. News Media students gain expertise in writing, editing, design, broadcasting, visual communication, videography, multimedia production, history, law, and ethics. They learn to produce journalism for a variety of topics, from politics and social issues to sports, food, fashion, and travel. The program’s graduates are prepared for jobs in the journalism industry and for jobs in many other professions. Employers of all sorts, from business to law to education, are desperate for employees who can write well, visualize ideas, search for supporting evidence, and organize information in engaging and clear ways. A news media degree gives graduates these skills.

The volume of information in our highly mediated society can be overwhelming, and it is the journalist who ensures that the information we get is trustworthy. While the communication skills and liberal arts knowledge that news media majors gain is valuable for their future careers, it’s also crucial to good citizenship. As our majors learn to produce the news, they also learn to think critically and ethically about the role that news plays in society.

In classes, laboratories, and campus media, News Media students emphasize the knowledge, values, and skills of journalism: compelling storytelling, strong writing, accurate reporting, sensitive editing, artful presentation, and racial, ethnic and cultural diversity. News Media majors also value critical thinking, teamwork, integrity, public service, the First Amendment, and the appreciation for the free flow of information in a democratic society. The JCM department encourages dual majors when possible and advises that all majors complete internships, work in campus media, and develop relationships with WVUA and the Digital Media Center.

Accelerated Master’s Program in Journalism/News Media

News Media majors admitted into this program will be able to earn both the BA in News Media and MA in Journalism at The University of Alabama in five years. For the highly motivated and academically gifted student, this program offers a faster, more economical plan than earning the degrees separately; a richer undergraduate experience and more courses in the major; and a stronger mentoring relationship with the faculty. Please contact the department for more information.

News Media majors must complete 120 hours for graduation, 40 of which are within the major as outlined below. NOTE: Of the 120 hours required for this degree, 72 hours must be outside of JCM/MC/APR under our national accreditation guidelines.

In addition to the general education requirements in the University Core curriculum, news media majors are required to complete 16 hours of JCM core classes and an additional 15 credits of the news media core classes. The final nine credits for the major can be any 300-400-level class within JCM, following all pre-requisite rules as listed in the course catalog. Students also must complete a minor or a second major. News Media majors may not complete a minor offered by the Department of Journalism & Creative Media or the Department of Advertising & Public Relations.

Core Curriculum and General Education Requirements

<table>
<thead>
<tr>
<th>Written Composition (6 credits)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 102 or EN 103 Advanced English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Foreign Language or Computer Science (8 or 6 credits)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language (FL) 1</td>
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</tr>
<tr>
<td>Computer Science (CS) 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Humanities, Literature, and Fine Arts (12 credits)</td>
<td>Hours</td>
</tr>
<tr>
<td>Fine Arts (FA)</td>
<td>3</td>
</tr>
<tr>
<td>Literature (L) 3</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU) or (L) or (FA) 3</td>
<td>6</td>
</tr>
<tr>
<td>History and Social/Behavioral Sciences (12 credits)</td>
<td>Hours</td>
</tr>
<tr>
<td>MC 101 Intro To Mass Communic</td>
<td>3</td>
</tr>
<tr>
<td>JCM 100 Introduction to Story</td>
<td>3</td>
</tr>
<tr>
<td>History (HI) 3</td>
<td>3</td>
</tr>
<tr>
<td>History (HI) or Social/Behavioral Sciences (SB) 3</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science and Mathematics (11 credits)</td>
<td>Hours</td>
</tr>
<tr>
<td>Natural Sciences (must include labs)</td>
<td>8</td>
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<tr>
<td>MATH 110 or MATH 112 Precalculus Algebra</td>
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</table>

<table>
<thead>
<tr>
<th>Writing (W) 4</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing (W)</td>
<td>6</td>
</tr>
</tbody>
</table>
Writing requirement fulfilled by upper level JCM courses. JCM majors do not need to take additional (W) courses.

Students must complete either CS or FL for core requirements.

News media students completing the computer requirements are encouraged to take JCM 202.

Students must complete either a HI or L sequence.

JCM Department Core (16 credits)
All students are required to take the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 100</td>
<td>3</td>
<td>Introduction to Story</td>
</tr>
<tr>
<td>JCM 102</td>
<td>3</td>
<td>Fund. of Media Technology</td>
</tr>
<tr>
<td>JCM 103</td>
<td>1</td>
<td>Mechanics of Media Writing</td>
</tr>
<tr>
<td>MC 101</td>
<td>3</td>
<td>Intro To Mass Communic</td>
</tr>
<tr>
<td>JCM 493 or</td>
<td>3</td>
<td>Ethics and Diversity in Media</td>
</tr>
<tr>
<td>JCM 496</td>
<td>3</td>
<td>Ethics in Sports Journalism</td>
</tr>
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</table>

Capstone Experience Course 3

Total Hours 16

News Media Major (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 180</td>
<td>3</td>
<td>Jou. Principles and Practices</td>
</tr>
<tr>
<td>JCM 303</td>
<td>3</td>
<td>News Writing and Reporting</td>
</tr>
<tr>
<td>JCM 315</td>
<td>3</td>
<td>Adv. News Writing</td>
</tr>
<tr>
<td>JCM 331</td>
<td>3</td>
<td>Intro to Electronic Reporting</td>
</tr>
<tr>
<td>MC 401</td>
<td>3</td>
<td>Mass Comm Law &amp; Regultn</td>
</tr>
</tbody>
</table>

Total Hours 15

Electives (9 credits)

Students can take any JCM 300-400 classes to meet their elective requirement, assuming that pre-reqs for those courses are met at the time of enrollment.

Total Hours 9

Sports Media Concentration (40 total credits - including 16 dept. core)

Students planning on completing the sports concentration must officially declare that on myBama.

Sports Media Concentration Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substitute JCM 325 Sports Writing and Reporting instead of JCM 315</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>JCM 425</td>
<td>3</td>
<td>Digital Sports Coverage</td>
</tr>
</tbody>
</table>

Total Hours 18

Advanced Sports Media Coursework (select 6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 381</td>
<td>1-3</td>
<td>Digital Media Practicum</td>
</tr>
<tr>
<td>JCM 382</td>
<td>1-6</td>
<td>News Media Internship</td>
</tr>
<tr>
<td>JCM 444</td>
<td>3</td>
<td>Adv. Sports Reporting</td>
</tr>
</tbody>
</table>

JCM 496 Ethics in Sports Journalism 3

Professional Experience

News Media students should seek a variety of media work experience, exploring opportunities at the campus newspaper and magazines, digital publications, WVUA-TV, campus radio stations, literary magazines, departmental and alumni newsletters and magazines, and in University communications and sports information offices. Students are strongly encouraged to seek internships with professional media organizations throughout their study at UA. The Department of Journalism & Creative Media has ongoing internship programs with The Tuscaloosa News, WVUA-TV and several other local media outlets. Internships may be completed for academic credit when the student has completed 45 semester hours and JCM 303 News Writing and Reporting with a C- or better. Job and internship listings are posted on the college internship website and outside the departmental office. An internship before senior year makes students more marketable when they graduate.

Career Options for News Media Majors

Graduates can work as writers, reporters, television anchors, editors, photographers, designers, broadcasters, producers and content managers at newspapers, magazines, digital publications, television stations, wire services and book publishers. Many also work in public relations, corporate communications, electronic news, political communication or enter law school or graduate school.

Types of Jobs Accepted

Recent graduates have accepted positions as reporters, covering sports, news, features and business in television, web and/or print outlets. Others have found jobs as editors, writers and designers at lifestyle and specialty magazines. One of the fastest-growing segments for jobs is online media, including outlets connected with newspapers, magazines and television stations, as well as web-only publications. Our top students, especially those who dual major in fields such as political science and communication studies, have been successful in gaining admission to law schools.

Jobs of Experienced Alumni

Our alumni hold top positions in media organizations nationally and internationally. Examples include the U.S. Supreme Court reporter for CBS News, the White House reporter for The Chicago Tribune, an online producer at BuzzFeed, a correspondent for The New York Times, the former editor of O Magazine, presidents and CEOs of online news outlets and public relations firms and several television news reporters in Alabama and throughout the Southeast.

Sample Curriculum for the News Media Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 100</td>
<td></td>
<td>Fall</td>
</tr>
<tr>
<td>JCM 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JCM 103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JCM 381</td>
<td>1-3</td>
<td>Digital Media Practicum</td>
</tr>
<tr>
<td>JCM 382</td>
<td>1-6</td>
<td>News Media Internship</td>
</tr>
<tr>
<td>JCM 444</td>
<td>3</td>
<td>Adv. Sports Reporting</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 MC 101</td>
<td></td>
<td>Spring</td>
</tr>
<tr>
<td>3 EN 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Humanities (HU) or Literature (L) or Fine Arts (FA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 History (HI) or Social/Behavioral Sciences (SB)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Learn more about opportunities in this field at the Career Center.
Mathematics (MATH) 3
History (HI) or Social/Behavioral Sciences (SB) 3

16 16

Sophomore

Fall  JCM 180  3 JCM 303  3
Humanities (HU) or (L) or (FA)  6 Humanities (HU) or (L) or (FA)  3
Elective  3 Elective  3
Foreign Language (FL) or Computer Science (CS)  3-4 Foreign Language (FL) or Computer Science (CS)  3-4

15-16 15-16

Junior

Fall  JCM 331  3 JCM 315  3
Humanities (HU) or (L) or (FA)  3 MC 401  3
Natural Science (NS)  4 JCM 300-400 Elective  3
Minor Course  3 Minor Course  6
JCM 300-400 Elective  3

16 15

Senior

Fall  JCM 493  3 Elective (as needed)  8-9
JCM 300-400 Elective  3 Minor Course  3-6
Minor Course  3 Capstone Experience  3
Elective (as needed)  3

12 14-18

Total Hours: 119-125

News Media, Minor

Students may select a minor in news media, unless they are majors in creative media, advertising, or public relations. The minor in news media requires the successful completion of 19 semester hours listed on the following tab.

News Media minors will take 19 hours of credit. This minor is not available to students in the JCM department, advertising or public relations.

Minor Courses

MC 101 Intro To Mass Communic  3
JCM 103 Mechanics of Media Writing  3
JCM 180 Jou. Principles and Practices  3
JCM 303 News Writing and Reporting  3
JCM 100-499 Elective  6
JCM 300-499 Elective  3

Total Hours  19

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. A C- or better is required in all courses in the minor.

Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Creative Media, B.A.

Creative Media majors use all types of media to tell stories. Whether the genre is fiction or nonfiction, production or management, writing or video, students in Creative Media learn the skills needed to tell these stories in the most effective way possible. Students also examine the meaning of story and how it influences culture and society, and how culture and society influence the story itself. Students tell their stories through both digital media and social media, and may also study music or video games. Creative Media majors develop technical skills, managerial competence, reasoning ability, and ethical judgment so they can become leaders in the film industry. Our courses reflect a liberal arts and sciences orientation, with a professional focus.

Creative Media majors must complete 120 hours for graduation, 37 of which are within the major as outlined below. NOTE: Of the 120 hours required for this degree, 72 hours must be outside of JCM/MC/APR under our national accreditation guidelines.

In addition to the general education requirements in the University Core curriculum, creative media majors are required to complete 16 hours of JCM core classes and an additional nine credits of the creative media core classes, as outlined below. The final 12 credits for the major can be any 300-400-level class within JCM, following all pre-requisite rules as listed in the course catalog. Students also must complete a minor or a second major. Creative Media majors may not complete a minor offered by the Department of Journalism & Creative Media or the Department of Advertising & Public Relations.

Core Curriculum and General Education Requirements

Written Composition (6 credits)  Hours
EN 101 English Composition  3
EN 102 or EN 103 English Composition (if eligible or by exam) or Advanced English Composition  3

Foreign Language or Computer Science (8 or 6 credits)  Hours
Foreign Language (FL)  8
Computer Science (CS)  6

Humanities, Literature, and Fine Arts (12 credits)  Hours
Fine Arts (FA)  3
Literature Sequence (L) 3
Humanities (HU) or (L) or (FA) 3

Natural Science and Mathematics (11 credits)
Natural Science (NS) 8
Mathematics (MATH) 3

History and Social/Behavioral Sciences (12 credits)
MC 101  Intro To Mass Communic  3
JCM 100  Introduction to Story  3
History (HI) 3
History (HI) or Social/Behavioral Sciences (SB) 3

Writing (6 credits)
Writing (W) 6
1. Writing requirement fulfilled by upper level JCM courses. JCM majors do not need to take additional (W) courses.
2. Students must select either a (FL) or (CS) sequence.
3. Creative media students completing the computer science requirement are encouraged to take JCM 202.
4. Students must complete either a (HI) or a (L) sequence (6 credits).

All JCM students are required to take the following core courses:

JCM Department Core (16 credits)
JCM 100  Introduction to Story  3
JCM 102  Fund. of Media Technology  3
JCM 103  Mechanics of Media Writing  1
MC 101  Intro To Mass Communic  3
JCM 493  Ethics and Diversity in Media  3
Capstone Experience Course  3
Total Hours 16

Creative Media Major (9 credits)
JCM 201  Intro to Media Production  3
JCM 212  Film and Media Theory  3
JCM 311  Critical Study of Television or or
JCM 312  International Cinema
JCM 412  Seminar in American Cinema
JCM 414  Films and Ind. Cinema  3
Total Hours 9

Creative Media Electives (12 credits)

Creative Media Production Concentration (Application Only, 41 total credits - including 13 dept. core)
The creative media production concentration uses the JCM department core except for JCM 493 Ethics and Diversity in Media.
Jobs of Experienced Alumni
Our alumni hold top positions in media organizations and commonly become television directors, movie producers, national news reporters, and national sports reporters.

Learn more about opportunities in this field at the Career Center

Sample Curriculum for the Creative Media Major

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101</td>
<td>3</td>
<td>EN 102</td>
<td>3</td>
</tr>
<tr>
<td>MC 101</td>
<td>3</td>
<td>JCM 100</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU) or (L) or (FA)</td>
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<td>JCM 102</td>
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<td>Natural Science (NS)</td>
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<td>History (HI) or Social/Behavioral Sciences (SB)</td>
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<td>Natural science (NS)</td>
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</table>

Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 103</td>
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<tr>
<td>JCM 212</td>
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<td>History (HI) or Social/Behavioral Sciences (SB)</td>
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<td>Mathematics (MATH)</td>
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<td>Minor Course</td>
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<td>History (HI) or Social/Behavioral Sciences (SB)</td>
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</table>

Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 311, 312, 412, or 414</td>
<td>3</td>
<td>Foreign language or computer science (FL or C)</td>
<td>3-4</td>
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<tr>
<td>Foreign Language (FL) or Computer Science (CS)</td>
<td>3-4</td>
<td>Minor Course</td>
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<tr>
<td>JCM 300-400 Elective</td>
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<td>Minor Course</td>
<td>3</td>
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<tr>
<td>Minor Course</td>
<td>3</td>
<td>JCM 300-400 Elective</td>
<td>6</td>
</tr>
<tr>
<td>Social Behavioral Sciences (SB)</td>
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Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCM 493</td>
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<td>Minor Course</td>
<td>3</td>
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<tr>
<td>Minor Course</td>
<td>3</td>
<td>Capstone Experience</td>
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<tr>
<td>Minor Course</td>
<td>3</td>
<td>JCM 300-400 Elective</td>
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<td>JCM 300-400 Elective</td>
<td>3</td>
<td>Elective (as needed)</td>
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<td>15</td>
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<tr>
<td>Total Hours: 120-122</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Creative Media, Minor

A minor in creative media is available to all students except those majoring in news media, advertising, or public relations. The minor requires 18 hours, which are listed on the following tab.

Creative Media minors will take 18 hours of credit. This minor is not available to students in the JCM department, advertising or public relations.

Minor Courses

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
</tr>
<tr>
<td>JCM 100</td>
</tr>
<tr>
<td>JCM 112 or JCM 145</td>
</tr>
<tr>
<td>JCM 100-499 Elective</td>
</tr>
<tr>
<td>JCM 300-499 Elective</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. A C- or better is required in all courses in the minor. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Sports Media, Minor

Sports Media minors will take 19 hours of credit and have the opportunity to select electives that allow for them to study principles, structures, and techniques of the modern sports news industry, or hone skills including writing, broadcasting, or web design. This minor is not available to students majoring in news media, creative media, advertising, or public relations.

Sports Media minors will take 19 hours of credit and have the opportunity to select electives that allow for them to study principles, structures, and techniques of the modern sports news industry, or hone skills including writing, broadcasting, or web design. This minor is not available to students majoring in the JCM department, advertising or public relations.

Minor Courses

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 101</td>
</tr>
<tr>
<td>JCM 103</td>
</tr>
<tr>
<td>JCM 146</td>
</tr>
</tbody>
</table>
Grade Point Average
A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. A C- or better is required in all courses in the minor. Please see the Grades and Grade Point Average (GPA) section of this catalog for an explanation of grade point average calculations.

Upper-level Residency
A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

School of Library and Information Studies
[object Object]

Faculty

Interim Director
Prentice, Ann E.

Professors
Miller, Steven Kent
Osburn, Charles B.
Pitschmann, Louis A.

Associate Professors
Bonnici, Laurie
Embree, Anna
MacCall, Steven
Naidoo, Jamie C.
Weddle, Jeffrey

Assistant Professors
Burgess, John
Riter, Robert
Sweeney, Miriam
Sutherland, Tonia

Adjunct Professor/Internship Coordinator
Bullock, Sybil

College of Community Health Sciences

Areas of Study
- Rural Community Health, Certificate (p. 1096)

Rural Medical Scholars Program
The Rural Medical Scholars Program, which is also operated by the College of Community Health Sciences, prepares outstanding rural scholars for family medicine or primary care practice in Alabama. Scholars selected to participate in the program, which is exclusively for students from rural Alabama, enroll in preparatory courses at The University of Alabama. Upon completion of their studies, they must meet the requirements for admission to medical school. Students matriculate two years at The University of Alabama School of Medicine in Birmingham for the basic medical sciences component of their curricula and then return to Tuscaloosa to the College for the clinical clerkship years, where they are also involved in special medical experiences that include rural preceptorships. For more information about the Rural Medical Scholars Program, contact: Dr. James Leeper, professor and director of educational programs, Department of Community and Rural Medicine, College of Community Health Sciences, 205-348-1355 or jleeper@cchs.ua.edu.

Family Medicine Residency
The University of Alabama College of Community Health Sciences in Tuscaloosa also functions as a regional campus of The University of Alabama School of Medicine (UASOM), providing the clinical years of education to a portion of UASOM medical students. All medical students complete their first and second years at the School of Medicine’s main campus in Birmingham and their third and fourth years at any one of UASOM’s four campuses – Birmingham, Tuscaloosa, Huntsville, and Montgomery. Upon completion of all four years of medical school, students are awarded the Doctor of Medicine (MD) degree from The University of Alabama School of Medicine.

Medical students completing their clinical years at the Tuscaloosa campus form long-term learning relationships with experienced, practicing physicians and mentors and provide comprehensive care of patients over time and through different points in their health care journey. A portion of third year clinical rotations are integrated to allow for continuity of patient care. Additionally, students receive elective credit through a unique course that integrates their daily clinical experiences with physician leadership, population medicine, and health policy.

The University of Alabama Family Medicine Residency, which is operated by the College of Community Health Sciences, was founded in 1973 and today is among the oldest and largest such residencies in the country.
Through the educational programs of the residency, the College fosters the knowledge, attitudes, and skills necessary to create outstanding physicians capable of providing high-quality, continuing, comprehensive, and patient-centered care. Through its residency, the College also offers fellowship programs for family medicine physicians in obstetrics, hospital medicine, geriatrics, sports medicine, behavioral health, and rural public psychiatry.

**Objectives**

A primary responsibility of the College of Community Health Sciences is to contribute to the improvement of the health of Alabama, with an emphasis on small towns, rural communities, and other underserved populations. The educational programs of the College are designed to increase the physician workforce, the availability and accessibility of health care, and to improve its quality.

The College:

- Provides the clinical years of medical education and training (third and fourth years) for a portion of medical students enrolled at UASOM.
- Operates a Family Medicine Residency.
- Works with UASOM to integrate medical education programs with non-medical aspects of health care delivery.
- Provides training sites and internships for students in nursing, social work, pharmacy, clinical dietetics, health education, and health care management.
- Offers shadowing and scribe opportunities for pre-med students.
- Makes available expertise in medical and health sciences to undergraduate and graduate education programs at The University of Alabama, and offers courses in medicine and health sciences to enrich University students' education by relating it to health, health care, and the health care delivery system.

**Faculty**

**Administrative Officers**

Richard Streiffer, MD, Dean
Harriet H. Myers, PhD, Assistant Dean for Medical Education
John C. Higginbotham, PhD, Associate Dean for Research
Thomas Weida, MD, Chief Medical Officer
David Nichols, MD, Chief Operating Officer
Allison H. Arendale, Chief Financial Officer
Brook Hubner, Senior Registrar Program Director, Medical Education

**Department Chairs**

John C. Higginbotham, PhD, Community Rural Medicine
Ricky Friend, MD, Family Medicine (Interim)
Scott Arnold, MD, Internal Medicine
Obstetrics and Gynecology
Thaddeus Ulzen, MD, Psychiatry Behavioral Medicine
Karen Burgess, MD, Pediatrics
Joseph C. Wallace, MD, Surgery

**Faculty**

Scott Arnold, MD
Daniel Avery, MD

Alan Blum, MD
Karen Burgess, MD
Caroline Boxmeyer, PhD
Jennifer Clem, MD
Sandra Daley, MD
Jared S. Ellis
Tamer Elsayed, MD
Ashley Evans, MD
Pamela Foster, MD, MPH
Richard Friend, MD
H. Joseph Fritz, MD
Scott Fulgham, MD
Brian Gannon, MD
Marisa Giggie, MD, MPA
Kristine Graettinger, MD
Susan Guin, MSN, CRNP
Anne Halli-Tierney, MD
Andrew Harrell, MD
Drake Lavender, MD
James Leeper, PhD
John McDonald, MD
Jerry McNight, MD
John Miller, MD
Harriet Myers, MD
William Owings, MD
Stretch Reed, MD
James Robinson, MD, Endowed Chair
Nancy Rubin, PsyD
Cathie Scarbrough, MD
Robert Sheppard, MD
Catherine Skinner, MD
Robert Slaughter, MD
Elizabeth Smith, CRNP
Grier Stewart, MD
Richard Streiffer, MD
Heather Taylor, MD
Cynthia Tyler, MSW
Thaddeus Ulzen, MD, FRCP(C), DFAPA
Melanie Tucker, PhD
Joseph Wallace, MD
John Warren, MD
Lloyd Williamson, MD, DFAPA
John R. Wheat, MD
Nelle Williams
Lea Yerby, PhD

Rural Community Health, Certificate

There continues to be a shortage of physicians and other health care providers in many parts of rural Alabama. Research suggests that people who grow up in rural areas are much more likely than others to return to rural areas to practice medicine. In 1996, The University of Alabama School of Medicine (UASOM), through its Tuscaloosa campus College of Community Health Sciences (CCHS), instituted the Rural Medical Scholars Program (RMSP). This is an alternative pathway for rural Alabama students to prepare for future work as primary care physicians in rural parts of the state.

The RMSP, a five-year program that leads to a medical degree (MD), has a separate admissions process. As part of the RMSP, students develop camaraderie with fellow students and form a support network with rural health professionals. To begin developing this important support system, the Rural Medical Scholars spend the academic year prior to entry into medical school involved in a basic rural health curriculum on the Tuscaloosa campus. Some of these students are college seniors pursuing a bachelor’s degree at The University of Alabama, and some already have this degree. Following successful completion of this pre-matriculation experience, the path of medical education continues with basic science courses at the UASOM Birmingham campus for two years and clinical work at the UASOM Tuscaloosa campus for two years.

The RMSP has developed its own set of courses, sometimes in collaboration with other colleges at UA, which meets the needs of Rural Medical Scholars. This set of courses is designed to meet the needs of both undergraduate and graduate students. Undergraduate students will still meet the requirements for graduation. Students with special needs will still take appropriate courses. The Certificate of Rural Community Health will provide recognition to all of these students for the work they do in a CCHS core set of five courses.

Certificate Program Objectives

1. Provide students with the basic tools, principles and knowledge to be able to investigate rural health issues and to determine solutions to rural health problems.
2. Create a support network among students, rural physicians, other rural health and agricultural professionals and rural residents.
3. Keep students from rural Alabama connected with their rural roots to increase the probability that they will return as rural health practitioners.

Completion Requirements

The Certificate requires successful completion (earn a grade of B or better in each course) of 15 credit hours in five courses (three hours each) from the following:

Rural Environmental and Occupational Health

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 400</td>
<td>Rural Envir/Occup Health</td>
<td>3</td>
</tr>
<tr>
<td>CHS 500</td>
<td>Rural Envir/Occup Health</td>
<td>3</td>
</tr>
<tr>
<td>HHE 500</td>
<td>Rural Environ/Occupatl Health</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Introduces basics of rural environmental and occupational health. Students acquire knowledge of biological, chemical, physical, safety and ergonomic health hazards common to the rural South. Safety regulations and preventive measures are explored where applicable.

Epidemiology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 420</td>
<td>Basic Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>CHS 520</td>
<td>Basic Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HHE 521</td>
<td>Basic Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Acquaints students with basic epidemiological methods and principles. Emphasis is on study design and sources of error. The investigation of disease etiology and risk factors are the focus of this course.

Community Clinical Process I

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 422</td>
<td>Community Clinical Proc</td>
<td>3</td>
</tr>
<tr>
<td>CHS 522</td>
<td>Community Clinical Proc</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Explores the roles and responsibilities of rural primary care physicians as they address the health and health care needs of individuals, families and communities. Communication basics and interviewing skills are explored and practiced. Health care practice issues such as physician/patient relationships, confidentiality and HIPPA Guidelines, as well as ethics in medicine, are presented. In addition, basic clinical assessment skills and techniques, including a comprehensive health history and physical exam, are introduced. Fieldwork includes shadowing primary care physicians, community interviews, health promotion activities and rural industry tours.

Biostatistics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 425</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>CHS 525</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>HHE 526</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Introduces basic statistical concepts and procedures in health-related research, including descriptive statistics, probability, parametric procedures (e.g., t-tests, analysis of variance, correlation, regression) and nonparametric procedures (chi-square tests and ranking procedures). Explores select data sets related to rural community issues through the application of learned procedures and the production of research reports.

Survey of Issues in Health Care Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 427</td>
<td>Health Policy &amp; Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Explores current issues facing the health care industry. Issues are analyzed and evaluated regarding health care sectors involved, level of importance and possible solutions/outcomes, as well as stakeholder demands. Students are expected to discuss and support analysis of health care issues.

College of Education

Department of Curriculum and Instruction (p. 1105)
Department of Educational Leadership, Policy and Technology Studies (p. 1116)
Department of Educational Studies in Psychology, Research Methodology and Counseling (p. 1116)
Department of Kinesiology (p. 1117)
Department of Music Education (p. 1120)
Department of Special Education and Multiple Abilities (p. 1123)
Education Studies Minor

Degrees and Programs Offered
The College of Education offers undergraduate programs leading to the bachelor of science degree in education.

The College of Education offers the following teacher education programs [NOTE: P refers to “pre-school” (any level prior to kindergarten) and K to “kindergarten”]:

- Elementary education (K-6) with dual certification in early childhood (P-3)
- Music education (P-12), instrumental or choral music
- Physical Education (P-12)
- Secondary education (6-12), with majors in English language arts (comprehensive), mathematics (comprehensive), science (comprehensive), social science (comprehensive), and the following foreign languages (6-12 or P-12): French, German, Latin or Spanish
- Special education, with K-6 and K-12 certification in collaborative education; early childhood special education (P-3) with dual certification in early childhood (P-3); and multiple abilities program with certification in four areas: elementary (K-6), collaborative (K-6), early childhood (P-3), and early childhood special education (P-3).

An emphasis in exercise and sport science is also offered for Human Performance majors; however, this degree does not lead to teacher certification.

The College of Education, in conjunction with the Honors College, offers a minor in Educational Studies.

General Degree Requirements
The College of Education offers undergraduate programs leading to the bachelor of science in education or the bachelor of science degree. These programs require the completion of a minimum of 120 semester hours in prescribed courses, as set forth in this catalog (most programs require the completion of more than 120 hours). Graduates will also have met the prescribed minimum standards of scholarship.

A minimum of 32 semester hours, including nine of the last 18 hours required for a degree, must be earned in residence at The University of Alabama as an enrolled student in the College of Education.

If a student does not complete requirements for the undergraduate degree within a period of seven years from the date of admission, the College of Education will modify the student’s program to bring it into compliance with current degree and certification requirements. In addition, a student in a teacher education program must complete that program’s requirements within four years from the date of formal admission to the program, or he or she must reapply for admission.

Upon re-entering, any student with a break in his or her enrollment at The University of Alabama (fall or spring semesters) will be placed in the program required of newly admitted students. Exceptions may be made by personnel in the Office of Student Services and Certification.

Because of the number of educational options available to students in the College, sample programs of study for all education majors cannot be provided here. Instead, detailed program outlines are available from academic advisers in the various program offices. In general, students take 100-level courses during the first year of college, 200-level courses during the second year and 300- and 400-level courses during the third and fourth years.

Each undergraduate program contains a group of courses classified as general studies. These courses must be taken in the proper prescribed sequence during the freshman and sophomore years, until they are completed. Required studies in English are part of the general studies requirement; a student must enroll each semester in the prescribed composition and literature courses until the English requirement is completed.

Upper and Lower Divisions
Students enrolling in a teacher education program (a program leading to Alabama Class B certification) enter the upper division of the College of Education at the time of their admission to a Teacher Education Program (TEP).

Retention in the College of Education
To continue to be eligible for enrollment in the upper division of the College of Education, a student must successfully complete any remaining courses in the teaching field(s) or major, and, for certification programs, the professional education courses, including successful clinical placements. The GPA in the teaching field — and, if transfer work, the overall GPA — must remain at least 2.75. In professional education courses, the GPA must be at least 2.75, with no grade lower than C. For students in non-certification programs, required minimum GPAs vary from program to program. All students should be aware of and monitor their GPAs and should project when they will be able to enroll in required courses. All students are expected to become familiar with the regulations discussed in Academic Records and General Academic Policies (p. 624) section of this catalog.

Examinations
Individuals who apply to the Alabama Department of Education for initial Alabama professional educator certificates or alternative certificates must meet the requirements of the Alabama Educator Certification Assessment Program (AECAP) as a precondition for certification. The AECAP consists of Praxis Core Academic Skills for Educators Tests, Praxis subject assessments, Principles of Learning and Teaching (PLT), and additional performance assessments adopted by the Alabama Department of Education.

The Praxis Core Academic Skills for Educators Tests consist of mathematics, reading, and writing. Passing scores in all three areas are required of candidates prior to admission to a teacher education program. Information about the Praxis Core Tests is available at https://www.ets.org/praxis/register/centers_dates. [Individuals who earned passing scores on all three components of the previously accepted Basic Skills assessment prior to September 1, 2017, may use those scores prior to September 1, 2022.]

Additional assessments required in the AECAP consist of selected tests from the Praxis Series. Each candidate must obtain passing scores on the appropriate subject assessment(s) prior to internship. Passing scores must be earned by July 1 for fall internships and by December 1 for spring internships. Information regarding test dates, test codes and testing sites may be obtained from the Praxis website: http://www.ets.org/praxis/al?WT.ac=praxishome_states_121126. Information is also available through the College of Education’s Office of Student Services in 104 Carmichael Hall.
Each student in a certification program must also show proof of mastery of all Alabama Core Teaching Standards, Professional Standards and Content Standards prior to program completion. In addition, College Dispositions, student portfolio, and other required assessments will be evaluated throughout. An Individualized Standards Assessment Report (ISAR) for each student will be reviewed and evaluated at various checkpoints to ensure mastery of standards. Upon program completion, the final ISAR will be evaluated prior to graduation and recommendation for certification.

In addition, edTPA (a performance based assessment) is required prior to program completion.

Clinical Placements

All Class B programs require extensive field experiences in diverse settings. The majority of upper-division education courses require clinical placements in the schools. At a minimum, each student shall have participated in 150 clock hours prior to the internship. Ninety of these 150 hours shall be in increments of at least 3 hours each. The majority of field experiences must occur in P-12 schools, and at least half of the field experiences shall be in the candidate’s teaching field. For Early Childhood Special Education and Early Childhood programs, field experiences shall include placements in at least two of the three main types of early education settings: P-3 classrooms, child care centers and homes, and Office of School Readiness programs.

All clinical placements in the College of Education are coordinated through the Office of Clinical Experiences. These placements are in the greater Tuscaloosa area in order to facilitate supervision of students. If an appropriate placement cannot be secured in the Tuscaloosa area, recommendations will be made for an alternate placement by the department head.

Professional Liability

Students enrolled in College of Education courses that require a clinical placement are required to provide proof of professional liability insurance before being allowed to participate in a clinical placement. Professional liability insurance may be purchased through an independent insurer or is available to students who are members of the Student Alabama Education Association (SAEA), the Council for Exceptional Children (SCEC) or Collegiate Music Educators National Conference (CMENC).

Further information and membership applications may be obtained from the Office of Clinical Experiences.

Required General Studies

These required general studies courses include most University of Alabama Core Curriculum requirements; however, the core curriculum writing requirement (the W courses) is not satisfied by these hours of general studies courses.

NOTE: Courses listed below reflect general options, but not all teaching fields are enhanced by every option, and some require additional coursework. Additional courses approved by the state of Alabama Articulation and General Studies Committee could be appropriate under the terms of the Statewide Articulation Reporting System (STARS). To avoid taking extra courses, each student should select, whenever possible, general studies courses that may be utilized in his or her teaching field or major. Please refer to notes below and to the specific teaching field(s) for more precise requirements.

I. Written Composition Requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101</td>
<td>English Composition</td>
<td>3-6</td>
</tr>
<tr>
<td>EN 205</td>
<td>Intro to Visual Arts</td>
<td></td>
</tr>
<tr>
<td>EN 206</td>
<td>Survey of Art I</td>
<td></td>
</tr>
<tr>
<td>EN 207</td>
<td>Survey of Art II</td>
<td></td>
</tr>
<tr>
<td>EN 208</td>
<td>Survey of Art III</td>
<td></td>
</tr>
<tr>
<td>EN 210</td>
<td>Honors English Literature I</td>
<td></td>
</tr>
<tr>
<td>EN 215</td>
<td>Honors English Literature II</td>
<td></td>
</tr>
<tr>
<td>EN 216</td>
<td>Honors American Literature</td>
<td></td>
</tr>
<tr>
<td>EN 219</td>
<td>Honors American Literature II</td>
<td></td>
</tr>
<tr>
<td>EN 220</td>
<td>Honors American Literature II</td>
<td></td>
</tr>
<tr>
<td>EN 499</td>
<td>African American Literature I</td>
<td></td>
</tr>
</tbody>
</table>

Humanities courses (At least 3 hours of public speaking is required): 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 123</td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COM 210</td>
<td>Oral Interpretation</td>
<td></td>
</tr>
<tr>
<td>AMS 150</td>
<td>Introduction to American Studies: Arts and Values</td>
<td></td>
</tr>
<tr>
<td>AMS 151</td>
<td>Introduction to World Culture I</td>
<td></td>
</tr>
<tr>
<td>AMS 203</td>
<td>Introduction to Southern Studies</td>
<td></td>
</tr>
<tr>
<td>AMS 204</td>
<td>Introduction to Western American Studies</td>
<td></td>
</tr>
<tr>
<td>AMS 231</td>
<td>Contemporary America</td>
<td></td>
</tr>
<tr>
<td>CL 222</td>
<td>Greek Roman Mythology</td>
<td></td>
</tr>
<tr>
<td>PHL 100</td>
<td>Intro to Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHL 104</td>
<td>Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>REL 100</td>
<td>Intro to Religious Studies</td>
<td></td>
</tr>
<tr>
<td>REL 102</td>
<td>Intro to Religions of the World</td>
<td></td>
</tr>
<tr>
<td>REL 110</td>
<td>Intro to the Old Testament</td>
<td></td>
</tr>
<tr>
<td>REL 112</td>
<td>Intro to New Testament</td>
<td></td>
</tr>
<tr>
<td>WS 200</td>
<td>Intro to Women Studies</td>
<td></td>
</tr>
<tr>
<td>CIP 200</td>
<td>Introduction to Global Studies</td>
<td></td>
</tr>
<tr>
<td>CIP 202</td>
<td>Introduction to Global Studies: Experiential Learning</td>
<td></td>
</tr>
</tbody>
</table>

Additional Course from Area II, if needed

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 103</td>
<td>Advanced English Composition</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

1 Students should select courses from areas II and IV so that at least one 6-semester-hour sequence of either literature (e.g., English, American or world) or history is presented.

2 A music education major may satisfy this requirement by earning a passing score on the Speech Proficiency Examination; however, appropriate hours in Area II must be met.
III-A. Natural Sciences Requirement

Select 8 hours of the following:

- AEM 120 Aerospace Science For Educators
- AY 101 Intro To Astronomy
- AY 102 and Intro Astronomy Lab
- BSC 108 Intro Biology Non Maj I
- BSC 109 Intro Biology Non Maj II
- BSC 114 Principles Of Biology I
- BSC 115 and Laboratory Biology I
- BSC 116 Principles Biology II
- BSC 117 and Biology II Laboratory
- CH 101 General Chemistry
- CH 102 General Chemistry
- CH 104 Introductory Chemistry
- CH 105 Introductory Org Chem
- GEO 101 The Dynamic Earth
- GEO 102 The Earth Through Time
- GEO 104 Hazardous Earth
- GEO 105 Sustainable Earth
- GY 101 or Atmospheric Proc & Patterns
- GY 102 Earth Surface Processes
- PH 101 General Physics I

Students in elementary education, the Multiple Abilities Program, and special education must complete four additional semester hours from N courses.

III-B. Mathematics Requirement

Select one of the following:

- MATH 110 Finite Mathematics
- MATH 112 Precalculus Algebra
- MATH 113 Precalculus Trigonometry
- MATH 115 Precalc Algebra & Trig
- MATH 121 Calculus & Applications
- MATH 125 Calculus I
- MATH 126 Calculus II

Total Hours

Students in elementary education (K-6), the Multiple Abilities Program, and special education must complete additional work in mathematics. See notes under these teaching fields. Students preparing to teach general science, biology, chemistry and physics need to meet specific MATH requirements. See notes under the various teaching fields.

IV. History and Social and Behavioral Sciences Requirement

Select at least one HY course: 1

- HY 101 Western Civ To 1648
- HY 102 Western Civ Since 1648
- HY 103 History of American Civilization to 1865
- HY 104 America Civilization Since 1865

Additional courses:

- PY 101 Intro To Psychology
- HD 101 Life Span Human Development
- ANT 100 Intro To Anthropology
- ANT 102 Intro to Cultural Anthropology

Total Hours

Students should select courses from areas II and IV so that at least one 6-semester-hour sequence of either literature or history (e.g., Western Civ., American) is completed.

V. General Pre-professional, Major and Elective Course

Courses are appropriate to the degree requirements and major of the individual student. Secondary and P-12 majors (except special education) should select courses appropriate to their majors. Additional, specific courses may be required for the various majors. Students should consult an adviser for requirements in a major.

EDU 200 Orient to Teacher Education is required for all students in education seeking teacher certification.

Educational Psychology Prerequisite Requirement

Introduction to Psychology (PY 101 Intro To Psychology) or Life Span Human Development (HD 101 Life Span Human Development) should be taken as part of area IV requirements.

Foreign Language/Computer Language Requirement

Choose one of the following options:

- Option 1: Satisfy the foreign language core requirement (FL) of 3-8 hours.
- Option 2: Satisfy the computer science core requirement (C) of 6 hours.

NOTES: Secondary English Language Arts majors must complete the foreign language requirement (Option 1). Option 2 is not part of area V of the articulation agreement. Students should consult an adviser for requirements in a major.

In some majors, additional courses may need to be taken to complete a total of 120 hours or to fulfill prerequisites for the required courses above (variable hours).

Student Responsibility

College of Education students are expected to register for appropriate courses necessary to make reasonable progress toward completing program requirements by the expected date of graduation. Students must familiarize themselves with the requirements contained in this catalog and are expected to make full use of DegreeWorks throughout their programs.

Local Mailing and Email Addresses

Students are expected to maintain mailing addresses and monitor their Crimson e-mail addresses at which communications from the College of Education will, with reasonable certainty, reach them. The University of Alabama utilizes myBama as the official means of recording address information. It is the student’s responsibility to update addresses as needed under the Self-Service tab on myBama.
All students have a Crimson e-mail account created for them when they first enter The University. This is considered the official University of Alabama e-mail address for each student, and it will be used by University departments to disseminate information. This means all communication from The University concerning registration, financial aid, events, notifications, etc., will be sent to the Crimson e-mail exclusively. Students are responsible for checking their Crimson e-mail accounts on a regular basis.

Class Hour Load
The normal class hour load for College of Education students is 15–17 hours per semester. Seniors who need 18 hours during the final semester to complete degree requirements may register for those hours without special permission. In all other cases, each student must have at least a B average to receive permission from the College’s Office of Student Services to register for more than 18 hours. The maximum class hour load with a B average permit is 21 hours. During the summer/Interim session, the maximum load without a B average permit is 17 hours (seven hours per term/three hours during Interim). A student with a B average permit may carry a maximum of 18 hours (nine hours during one summer term, six hours during the other summer term and three hours during Interim term).

Class Attendance
Students are expected to pursue successful completion of all courses for which they are registered, including regular class attendance. The dean may withdraw a student from courses and/or may assign failing grades at any time during a semester when excessive absences have accumulated or when the student is disenrolled from a course.

Academic Bankruptcy
The College of Education observes the general University policies governing academic bankruptcy and also maintains a committee to review all petitions for academic bankruptcy. The petitioning process begins in the College’s Office of Student Services and Certification.

Auditing Courses
With approval from the dean, an education student may audit one course. No tests or final examinations may be taken when a course is audited. An audited course is counted as if it were a credit course in the determination of the class hour load. Normally, an audited course may not be repeated for credit.

Duplicate Credit
A course that substantially duplicates the content of a course for which credit has already been earned may not count toward degree requirements.

Repeating Courses for Higher Grades
With written permission from the dean, education students may repeat certain courses in which a grade of D was received. The dean’s written permission must be filed with the registrar of the College of Education. When the cumulative grade point average is computed, each enrollment in the course will count as hours attempted. However, only the most recent enrollment may count toward degree requirements.

Transfer Between Divisions
Before transferring into the College of Education from another division of The University of Alabama, a student must attend an orientation session sponsored by the College of Education Office of Student Services and Certification.

Transfer Equivalencies
Professional education courses transferred from other institutions may not be used to meet requirements in a state-approved program of study within the College of Education.

Second Bachelor’s Degree
If a student wishes to earn a second bachelor’s degree in the College of Education, a minimum of 32 semester hours of additional credit must be earned in residence in the College of Education. These 32 hours must be over and above all credit earned for the previous degree. All quantitative and qualitative requirements for the second degree program must be met in full, according to standards in effect on the date of enrollment in the second program. Students seeking a second bachelor’s degree must have a transcript evaluation from the Office of Student Services in 104 Carmichael Hall.

Admission to a Teacher Education Program (TEP)
Students must be formally admitted to a TEP. Applications are available through the Office of Student Services located at 104 Carmichael Hall. Students who meet the following criteria may apply for admission to the teacher certification program in their area of study. However, meeting the minimum criteria does not guarantee admission to TEP.

1. Alabama Educator Certification Assessment Program (AECAP). The Praxis Core Academic Skills for Educators Tests (mathematics, reading and writing) must be taken prior to the pre-professional course. Students must have a passing score for all three sections. Information about the Praxis Core Tests is available at https://www.ets.org/praxis/register/centers_dates or from Student Services in 104 Carmichael Hall. [Individuals who earned passing scores on all three components of the previously accepted Basic Skills assessment prior to September 1, 2017, may use those scores prior to September 1, 2022.]

2. A minimum grade point average of 2.75 must be met and maintained for admission. UA and overall GPAs of 2.75 are required. The GPA in the teaching field must remain at least 2.75. In professional studies courses, the GPA must be at least 2.75 with no grade lower than C. Transfer students must have the required GPA on all coursework taken at this institution as well as overall coursework (UA and transfer work).

3. EN 101 English Composition and EN 102 English Composition or EN 103 Advanced English Composition with credit for EN 101 English Composition; Students must have a grade of a C or higher in the coursework.

4. BEP 305 Educational Psychology or BEF 360 Social Psychol Foundtns Educ or BEP 360 Social Psychol Foundtns Educ; Students must have a grade of a C or higher in the coursework.

5. Students must have a grade of a C or higher in an approved public-speaking course.

6. Students must successfully complete at least 60 semester hours, including at least 41 hours of general studies. Students must not have exceeded 120 semester hours.

7. Students must successfully complete the pre-professional lab experience in their field of study with a grade of at least a C. Students should check with an academic adviser for the specific departmental course with the lab experience.
8. The Alabama State Department of Education and the College of Education require all students to be fingerprinted and receive background clearance prior to admission to TEP. Fingerprinting will be required during the semester of the pre-professional course, and background clearance must be obtained prior to clinical placements in the schools.

9. Students must fulfill their departmental writing requirements.

10. Each candidate for admission must successfully complete an interview with at least two faculty members. Speaking skills and knowledge and abilities based on previous coursework will be among the attributes assessed in the interview. The interview evaluation will become part of the application to a TEP.

11. Appropriate faculty and administrative signatures are required once all criteria have been met.

Admission to a TEP is competitive and meeting standard criteria does not guarantee consideration for admission to a teacher preparation program. Admission will be based on evaluations of the applications to identify those applicants who are best qualified and who show strong likelihood of success in their chosen areas. The evaluations will reveal the relative strengths and weaknesses in each applicant’s credentials in light of the areas in which the applicant wishes to teach and the applicant’s understanding of, and commitment to, teaching as a profession, as well as oral skills, mature judgment and the demeanor necessary to become successful as a teacher. Any applicable test score, or sub-score, and grades in previous courses should reflect a strong record in the major area of study. A student's entire application will be evaluated by appropriate members of the faculty who will make a recommendation to the dean. The dean will make the final decision.

Individuals who hold college degrees and wish to complete certification programs to teach in the public schools or to complete a TEP in order to qualify for certain graduate programs must meet the admission criteria and must follow all application procedures. Students should check with academic advisers in the office of Student Services for specific departmental TEP admissions requirements.

## Internship Requirements

After successfully completing all required coursework, each student is screened for placement in an internship. The teaching internship (formerly called student teaching) is one of the most important experiences a College of Education student has. It is generally regarded as the culminating activity of one’s preparation to become a teacher. At The University of Alabama, the internship is a full-semester, full-time assignment and must be taken in residence.

Both undergraduate and alternative (nontraditional, fifth-year) students must file internship applications with the Office of Clinical Experiences in 101 Graves Hall during the semester preceding the semester of the planned internships. The application process begins by attending a mandatory application session, which is held at 4 p.m. in 118 Graves Hall on the first Wednesday in October for spring-semester interns and the first Wednesday in March for fall-semester interns.

A student may apply to enroll for an internship if the following criteria have been met:

1. The student must have been admitted to the teacher education program or an alternative (nontraditional, fifth-year) program. Internship applications will not be processed until admission is verified.

2. The student must have completed all courses in the major or majors prior to the internship or have written permission from the faculty adviser and Department Chair to intern.

3. The student must have earned a minimum grade point average of 2.75, both for all University of Alabama courses attempted and for all University of Alabama courses and transfer courses combined.

4. The student must have earned a minimum grade point average of 2.75 in each major, both for University of Alabama courses in each major and for combined University of Alabama courses and transfer courses in each major.

5. The student must have earned a minimum grade point average of 2.75 for professional education coursework, with no grade below a C in any professional education coursework.

6. The student must have completed all methods courses and appropriate professional coursework with grades of C or higher.

7. The student must have removed from the transcript any grade of incomplete (I) recorded in required courses; grades of incomplete are treated as grades of F.

8. The student must have earned passing scores on the appropriate Praxis subject assessment(s) for the teaching field. Passing scores must be earned by July 1 for fall internships and by December 1 for spring internships.

9. The student must show mastery of required standards in all courses completed prior to internship, as indicated on the Individualized Standards Assessment Report.

## Registration for Internship Credit Hours

Undergraduate students are required to register for the number of internship credit hours specified by their programs. In some programs, an undergraduate student may be allowed to choose a nine-hour registration or a 12-hour registration; course requirements are the same whether nine hours or 12 hours are taken. Students in programs requiring two different internship placements are required to register for two different sections of internship. A student enrolled for an internship must not expect to be enrolled in other courses while interning unless special permission is granted by the department head.

## Policy on Internship Placements

All internship placements are coordinated by the College of Education Office of Clinical Experiences. A placement site will be selected in a manner to ensure the quality of the internship experience and of the supervision provided by the cooperating teacher. All internship placements (except for music education) are in the greater Tuscaloosa area in order to facilitate supervision of students by University of Alabama faculty or other designee of the department heads. Placement outside the greater Tuscaloosa area is made only if the Office of Clinical Experiences and/or a department head determine(s) that appropriate local placement is unavailable.

A student may apply for an overseas internship if he or she meets certain criteria and if appropriate placement can be coordinated by the Consortium for Overseas Student Teaching (COST) and/or The University of Alabama. Applications for overseas internships are taken during January for placements for the next fall semester and in June for placements the succeeding spring semester. Contact the Office of Clinical Experiences in 101 Graves Hall for additional information.

## Internship Assignments

- Elementary education (K–6) interns will receive a placement in lower elementary (grades K-3) and upper elementary (grades 4-6) unless
substantial field experiences are required and completed at both levels.

- Secondary education (6–12) interns with a comprehensive major may receive one or two internship assignments. If a candidate is seeking certification in two or more distinct teaching fields, an additional internship(s) will be required (unless the internship is defined according to the State-approved program.) If a candidate is seeking certification in two or more related fields, the internship may be divided between the two teaching fields.
- Special education-Collaborative (K–6 or 6–12) interns will receive a split internship assignment: half in a severe and profound setting and half in a mild to moderate setting. The placements will be divided according to their certification grade levels. For candidates seeking certification in BOTH Collaborative K-6 and Collaborative (6-12), the internship shall be divided between early childhood/elementary and middle/secondary grades.
- Special education-early childhood (P-3) interns will receive split placements in pre-K and K-3 in both general education and special education.
- MAP (P–6) interns will receive a minimum of four placements covering two semesters: The placements will be P-3 and upper elementary (4-6), and at least two of the following age groups: pre-K through age 3, age 3-5, and age 5-8. Placements will include children with and without identified disabilities.
- P–12 programs in physical education, foreign language, or music education interns should expect to have a split internship assignment with an elementary and a secondary school.

Professional Licensure (Certification)

The curricula offered by the College of Education are designed to prepare teachers and school administrative and supervisory officials for the appropriate certificates. Students graduating with a bachelor of science degree in education who have successfully completed a certification program are eligible to apply for the Alabama Class B professional educator certificate. Certification programs are available for the Alabama Class A and Class AA professional certificates for college and university graduates who are holders of bachelor's and higher degrees. The College of Education, in accordance with the regulations of the Alabama State Board of Education, also provides assistance to individuals who need courses for the renewal of a certificate.

The associate dean for student services in the College of Education has been designated the teacher certification officer for the University. Students who need information about or assistance with certification should consult the associate dean for student services.

Students planning to teach outside the state of Alabama are held personally responsible for knowledge of professional licensure requirements in those states.

Application for Certification

All students must complete the proper application form for Alabama certification. Forms are available online through the Alabama Department of Education. Applications should be submitted to Student Services in 104 Carmichael Hall at least one semester in advance of graduation. A student who does not apply for professional licensure within 60 months after completing the state-approved program will be required to meet the current program. Students who plan to teach in other states must secure the proper professional licensure application forms from those states’ departments of education after applying for Alabama certification.

Teacher Warranty

According to regulations mandated by the Alabama State Board of Education, the College of Education ensures that "a candidate's competency to begin his or her professional role in schools is assessed prior to completion of the program and/or recommendation for certification" and establishes, publishes and implements "policies to guarantee the success of individuals who complete its approved programs and are employed in their area(s) of specialization." The College of Education provides "remediation at no cost to such individuals who are recommended . . . and are deemed to be unsatisfactory based on performance evaluations established by the State Board of Education and within two years after program completion."

Changes in Certification Requirements

The programs listed in this catalog that lead to Alabama Class B professional educator certification for service in the public schools may be altered to meet certification standards adopted by the Alabama State Board of Education. Check with the appropriate department head for information.

History and Objectives

The University of Alabama has long been concerned with programs for the preparation of public school personnel. In 1844, just 13 years after the University’s establishment, a Normal Department was provided for those who wished to prepare for teaching careers. By 1872, the Normal Department had become the Normal School. By 1899, the trustees had replaced the Normal School with the School of Pedagogy and Psychology, which in 1902 became the School of Philosophy and Education. In 1908, the school was reorganized as the Department of Education; further organizational changes resulted in the name being changed to the School of Education one year later. The present College of Education was established in 1928. Until 1924, the University’s offerings in teacher education were almost entirely limited to undergraduate programs for elementary and high school teachers. Graduate work in school administration was added in 1924, and all programs — undergraduate and graduate — were greatly expanded from 1927–1928. Doctoral programs were authorized in 1951.

The College of Education is the division of The University of Alabama that has the responsibility for administering all professional programs and courses designed for the preparation of teachers and other educational professionals. Experiences in academic programs are devoted to developing individuals’ understanding of knowledge construction, learning, pedagogy and responsible professional practice in the contexts of education. The University of Alabama’s College of Education seeks to prepare professionals who demonstrate and value reflective practice and ethical decision making through respecting diversity, honoring difference and promoting social justice.

Faculty

Dean
Peter Hlebowitsh
Senior Associate Dean
Elizabeth K. Wilson
Associate Dean and Certification Officer
Kathy Shaver-Wetzel
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Kristine Jolivette

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Lisa Hsin
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Bryan Mann
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Stacy Hughey Surman

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Barbara M. Barker
Aurelia Barnett
Patricia A. Bauch
Mary Beirne-Smith
Dorothea Grace Bishop
Phillip Bishop
Karla Carmichael
Hazel B. Cobb
Sheryl Cohen
Robert Edward Comas
Helen R. Connor
William D. Crump
C.J. Daane
Dave Dagley
John P. Dolly
Jill Driver
Ben F. Eller
Edwin S. Ellis
Charles R. Estes
Ronald L. Evelsizer
Patrick Ferguson
Lanny R. Gamble
M. Jenice Goldston
Sr. Madeleine Gregg
Robert E. Griffin
Patti Harrison
David W. Head
Loreta Holder-Brown
Ali Iran-Nejad
Margaret King
Robert Kenneth T. Leigh
Department of Curriculum and Instruction

Professor Cynthia C. Sunal, Department Head
Office: 201C Graves Hall
cvsunal@ua.edu
205-348-8264

• Majors
  • Elementary Education (BSE) (p. 1105)
  • Secondary Education (BSE) (p. 1107)

CEE304 Teach Elem School Scienc
Hours 3
Teaching experiences related to K-6 children's learning of science, with emphasis on teaching strategies that use inquiry approaches. Admission to Teacher Education Program is required.
Prerequisite(s): CEE 370 with a minimum passing grade of C-
Prerequisite(s) with concurrency: CEE 366 and CEE 401 and CEE 478 and CEE 496 and BER 450

CEE320 Survey Elementary Eductn
Hours 3
Surveys elementary education as a professional career. Students become acquainted with factors affecting successful teaching in the elementary school.
Prerequisite(s) with concurrency: CEE 491, CRD 369

Faculty
Department Head and Professor
Cynthia Sunal

Program Coordinators
Holly Swain, Elementary
Karen Spector, Secondary

Professors
Miguel Mantero
Dennis Sunal
Elizabeth K. Wilson

Associate professors
Julianne Coleman
Janie Hubbard
Jonathan Shemwell
Karen Spector
Jeremy Zelkowski

Assistant professors
Melanie Acosta
Justin Boyle
Cory Callahan
Lauren Colley
Kristin Harbour
Tracey Hodges
Alison Hooper
Latrise Johnson
Jee Kyung Suh
Bedrettin Yazan

Clinical associate professor
Melissa Fowler

Clinical assistant professors
Lisa Matherson
Holly Swain

Elementary Education, BSE

Students who complete this dual certification program should have a desire to teach in an elementary school (K-6) or early childhood (P-3) regular education classroom. Prior experience in the classroom is not required, although a lively interest in the institution of education and the state and national policies that shape school experiences is a plus. Successful completion of the program leads to the bachelor of science in
education degree and eligibility to be recommended for Alabama Class B certification in Elementary (K-6) and Early Childhood (P-3).

The undergraduate catalog is published annually. Program advising sheets are updated more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should obtain the most recent advising sheets, available from their academic advisors and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 201 Graves Hall.

This department requires the completion of at least 120 semester hours for graduation.

## Teacher Education Program Admission Requirements for Elementary Education Majors

Since the fall semester of 1996, there has been a competitive admission process for entering the elementary education professional semesters. There is a limitation on enrollment for these semesters. Meeting the minimum criteria for the teacher education program (TEP) does not guarantee admission to these professional semesters. See program for admission procedures.

The student must complete the TEP application form, available from personnel in 104 Carmichael Hall. The minimum requirements are listed at the beginning of the College of Education section.

**NOTE:** The faculty reserves the right to make exceptions to the listed criteria based on individual circumstances. However, minimum Alabama State Department of Education requirements found elsewhere in this catalog must still be met.

Additional requirements include:

- each student must earn a grade of C or higher in all University core courses
- each student must successfully complete MUE 107 Basic Skills In Music or a proficiency examination
- each student must have a C or higher in every professional studies and teaching field course; a student must successfully petition the department to retake any education course in which he or she earned less than a C
- each student must select an additional course from the general studies natural science requirements for a total of at least 12 semester hours; preferred are four semester hours in biological science and eight semester hours in physical/interdisciplinary science.
- each student must select additional mathematics courses from the general studies list for a total of 12 semester hours of MATH-designated courses

### Recommended Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 208</td>
<td>Number And Operations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 209</td>
<td>Geometry &amp; Measurement</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Data Analysis Probabil Stats</td>
<td>3</td>
</tr>
</tbody>
</table>

### Unacceptable Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 100</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BER 345</td>
<td>Educational Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Studies (60 Hours)

#### Professional Studies and Teaching Field

The University of Alabama GPA — and, if transfer work, the overall GPA — must be at least 2.75 in the professional studies and teaching field courses. A student may not enroll in more than five professional studies courses before he or she has received unconditional admission to the TEP.

All required English coursework must have been completed before Professional Semester 1.

#### Professional Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BEF 362</td>
<td>School, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BEP 305</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CEE 320</td>
<td>Survey Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Strateg</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Total Hours: 21

1. BEF 362 School, Culture, and Society, BEP 305 Educational Psychology and SPE 300 Survey Spe Accomd Strateg may be taken prior to Professional Semester I.

2. Corequisites

**NOTE:** MUE 107 Basic Skills In Music is a prerequisite to MUE 385 Tchg Music Elementary Schools; however, students with previous musical training may elect to demonstrate equivalent skills through testing. Arrangements for testing can be made by contacting the Music Education office at (205) 348-6054.

**NOTE:** Students formally apply to the Teacher Education Program during CEE 320 Survey Elementary Eduxn and should meet requirements at this time. Applications are available from Student Services located at 104 Carmichael Hall. Check TEP requirements above for additional information.

All required mathematics coursework must be completed prior to Professional Semester 2.

#### Professional Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 401</td>
<td>Managing Effective Classrooms</td>
<td>1.5</td>
</tr>
<tr>
<td>CEE 365</td>
<td>Literature For Children</td>
<td>3</td>
</tr>
<tr>
<td>CEE 370</td>
<td>Teaching Reading Elem School</td>
<td>3</td>
</tr>
<tr>
<td>CEE 380</td>
<td>Teaching Elem Math</td>
<td>3</td>
</tr>
<tr>
<td>CEE 495</td>
<td>Practicum</td>
<td>3</td>
</tr>
<tr>
<td>KIN 364</td>
<td>P E Elem Sch Elem Ed Maj</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 16.5

All required science and social science/humanities coursework must be completed prior to Professional Semester 3.
Professional Semester 3

**Professional Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BER 450</td>
<td>Assess Of Classrm Learnng</td>
<td>3</td>
</tr>
<tr>
<td>CEE 401</td>
<td>Managing Effective Classrooms</td>
<td>1.5</td>
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**Teaching Field**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 304</td>
<td>Teach Elem School Scienc</td>
<td>3</td>
</tr>
<tr>
<td>CEE 366</td>
<td>Teaching Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CEE 478</td>
<td>Teach Lang Arts In Elem School</td>
<td>3</td>
</tr>
<tr>
<td>CEE 496</td>
<td>Senior Practicum</td>
<td>3</td>
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**Total Hours**: 16.5

Professional Semester 4

**Internship**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 497</td>
<td>Internship Elem School</td>
<td>6</td>
</tr>
<tr>
<td>CEE 497</td>
<td>Internship Elem School</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours**: 12

1. Elementary education students are required to complete two internship placements; therefore, students should enroll in equal hours of two sections of CEE 497 Internship Elem School. An adviser should be consulted for appropriate internship hours.

**Middle School (4-8) Endorsement on Elementary (K-6) Certificate**

By completing additional requirements, a student fulfilling the requirements for elementary school (K-6) certification may also obtain middle school certification. The additional requirements of the middle school endorsement program may be secured in 104 Carmichael Hall.

Our graduates are certified to teach Elementary (kindergarten through 6th grade) and Early Childhood (preschool through 3rd grade) in Alabama.

**Types of Jobs Accepted**

Graduates accept jobs in public and private elementary and middle schools in Alabama and may apply for jobs in other states that have signed a compact for reciprocal certification.

**Jobs of Experienced Alumni**

Alumni often return for additional degrees or certifications. They can then work as special educators, reading specialists, curriculum specialists, counselors, administrators or educational psychologists.

Learn more about opportunities in this field at the Career Center.

**Secondary Education, BSE**

The secondary education program offers exemplary professional programs that prepare educators to be reflective decision-makers, researchers, and facilitators of student learning in general. The programs in secondary education lead to the Bachelor of Science in Education degree and the Alabama Class B (6–12) professional certificate in the areas of English language arts, foreign language education (French, German, Latin, and Spanish), mathematics, general science (biology, chemistry, or physics major), and general social science. Students complete their internships in the Tuscaloosa area; however, there are opportunities to student teach in foreign countries such as England, Ireland, and South Africa. Faculty provide students with many opportunities to become involved in scholarly endeavors such as conducting research, presenting papers at conferences, and co-authoring articles. Secondary education students are typically interested in pursuing careers as middle and/or high school teachers.

The undergraduate catalog is published annually. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheets, available from academic advisors and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 204 Graves Hall.

**Requirements for Secondary Education (6-12) Teaching Fields**

**English Language Arts (Comprehensive, 6-12)**

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

**NOTE:** Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

**General Studies (60 Hours)**

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

**Professional Studies (31-34 Hours)**

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses. The University of Alabama GPA should be consulted for appropriate internship hours.

**Secondary Education, BSE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF/BEP 360</td>
<td>Social Psychol Foundtns Educ</td>
<td>3</td>
</tr>
<tr>
<td>BER 450</td>
<td>Assess Of Classrm Learnng</td>
<td>3</td>
</tr>
<tr>
<td>CRD 412</td>
<td>Impr Read Second Schools</td>
<td>3</td>
</tr>
<tr>
<td>CSE 390</td>
<td>Instructn Accomd Sec Sch</td>
<td>3</td>
</tr>
<tr>
<td>CSE 493</td>
<td>Diversity Block Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CSE 489</td>
<td>Clinic Exper Second School</td>
<td>3</td>
</tr>
<tr>
<td>CSE 497</td>
<td>Sec School Teaching</td>
<td>9-12</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Stratg</td>
<td>3</td>
</tr>
<tr>
<td>Discipline-specific CSE methods course³</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSE 479</td>
<td>Teach Second Sch English</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**: 31-34
This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinic Exper Second School, CRD 412 Impr Read Second Schools, BER 450 Assess Of Classrm Learng and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinic Exper Second School and methods course.

Teaching Field
The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101</td>
<td>Principles Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 123</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>CSE 455</td>
<td>Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>CSE 469</td>
<td>Pedagogical Grammar</td>
<td>3</td>
</tr>
<tr>
<td>CSE 470</td>
<td>Teaching Writing 6-12</td>
<td>3</td>
</tr>
<tr>
<td>EN 205</td>
<td>English Literature I</td>
<td>3</td>
</tr>
<tr>
<td>EN 210</td>
<td>American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>EN 300</td>
<td>Intro To English Studies</td>
<td>3</td>
</tr>
<tr>
<td>EN 321</td>
<td>Linguistic Approach English Gramr</td>
<td>3</td>
</tr>
<tr>
<td>EN 333</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>EN 411</td>
<td>Adv Stdy Comptv Multi-Cult Lit</td>
<td>3</td>
</tr>
<tr>
<td>EN 209</td>
<td>American Literature</td>
<td>3</td>
</tr>
<tr>
<td>EN 249</td>
<td>African American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>EN 340</td>
<td>American Literature To 1900</td>
<td>3</td>
</tr>
<tr>
<td>EN 341</td>
<td>American Poetry To 1900</td>
<td>3</td>
</tr>
<tr>
<td>EN 342</td>
<td>American Fiction To 1900</td>
<td>3</td>
</tr>
<tr>
<td>EN 343</td>
<td>British Fiction To 1900</td>
<td>3</td>
</tr>
<tr>
<td>EN 347</td>
<td>English Lit During Enlightenmt</td>
<td>3</td>
</tr>
<tr>
<td>EN 348</td>
<td>Romantic Literature</td>
<td>3</td>
</tr>
<tr>
<td>EN 349</td>
<td>Victorian Literature</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>68</td>
</tr>
</tbody>
</table>

French
The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

NOTE: Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

General Studies (60 Hours)
Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies (31-34 Hours)
Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF/BEP 360</td>
<td>Social Psychol Foundtns Educ</td>
<td>3</td>
</tr>
<tr>
<td>BER 450</td>
<td>Assess Of Classrm Learng</td>
<td>3</td>
</tr>
<tr>
<td>CRD 412</td>
<td>Impr Read Second Schools</td>
<td>3</td>
</tr>
<tr>
<td>CSE 390</td>
<td>Instructn Accomd Sec Sch</td>
<td>3</td>
</tr>
<tr>
<td>CSE 493</td>
<td>Diversity Block Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CSE 489</td>
<td>Clinic Exper Second School</td>
<td>3</td>
</tr>
<tr>
<td>CSE 497</td>
<td>Sec School Teaching</td>
<td>9-12</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accord Strat</td>
<td>3</td>
</tr>
<tr>
<td>CSE 480</td>
<td>Teach Sec Sch Forgn Lang (for 6-12)</td>
<td>3</td>
</tr>
<tr>
<td>CIE 480</td>
<td>Meth Teach Foreign langs (for P-12)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>31-34</td>
</tr>
</tbody>
</table>

1 This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinic Exper Second School, CRD 412 Impr Read Second Schools, BER 450 Assess Of Classrm Learng and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinic Exper Second School and methods course.

Teaching Field
The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 201</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FR 202</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FR 321</td>
<td>Voices In French</td>
<td>3</td>
</tr>
</tbody>
</table>
FR 323  Text, Image, And Word  3
FR 331 or French Civilization  3
FR 431  Contemp French Civiliztn  
FR 421  Pronunciation & Phonetics  3
Select two of the following:  6
  FR 361  Intro Romance Linguistic  
  FR 461  French Linguistics  
  FR 470  Undergrad Sem In French  
  FR 480  Special Topics  
Select two of the following:  6
  FR 341  Survey Fr Literature I  
  FR 351  Survey Fr Literature II  
  FR 470  Undergrad Sem In French  
  FR 480  Special Topics  
Advisor-approved FR electives  6
Total Hours  36

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement.

To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CEE 320</td>
<td>Survey Elementary Eductn</td>
</tr>
<tr>
<td>3</td>
<td>CEE 365</td>
<td>Literature For Children</td>
</tr>
<tr>
<td>3</td>
<td>HD 101</td>
<td>Life Span Human Development</td>
</tr>
</tbody>
</table>

Additionally, the internship should be Intern Foreign Language Education CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

### German

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

**NOTE:** Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

### General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

### Professional Studies (31-34 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BEF/BEP 360</td>
<td>Social Psychol Foundtns Educ</td>
</tr>
<tr>
<td>3</td>
<td>BER 450</td>
<td>Assess Of Classrm Learng</td>
</tr>
<tr>
<td>3</td>
<td>CRD 412</td>
<td>Impr Read Second Schools</td>
</tr>
<tr>
<td>3</td>
<td>CSE 390</td>
<td>Instructn Accod Sec Sch</td>
</tr>
<tr>
<td>1</td>
<td>CSE 493</td>
<td>Diversity Block Seminar</td>
</tr>
<tr>
<td>3</td>
<td>CSE 489</td>
<td>Clinic Exper Second School</td>
</tr>
<tr>
<td>9-12</td>
<td>CSE 497</td>
<td>Sec School Teaching</td>
</tr>
<tr>
<td>3</td>
<td>SPE 300</td>
<td>Survey Spe Accod Stratg</td>
</tr>
</tbody>
</table>
| 3     | Discipline-specific CSE methods course (Select the appropriate course for 6-12 or P-12 certification.)

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement.

To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

### Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

Select one of the following Elementary German options:  4-8

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>GN 101</td>
<td>Elementary German I</td>
</tr>
<tr>
<td>3</td>
<td>GN 102</td>
<td>and Elementary German II</td>
</tr>
<tr>
<td>3</td>
<td>GN 103</td>
<td>Accelerated Elementary German</td>
</tr>
<tr>
<td>3</td>
<td>GN 201</td>
<td>Intermediate German I</td>
</tr>
<tr>
<td>3</td>
<td>GN 202</td>
<td>Intermediate German II</td>
</tr>
<tr>
<td>6</td>
<td>GN 361</td>
<td>Interm Convers Comp I</td>
</tr>
<tr>
<td>6</td>
<td>GN 362</td>
<td>and Interm Convers Comp II</td>
</tr>
<tr>
<td>6</td>
<td>GN 371</td>
<td>Gn Cult Civ Thru 1832</td>
</tr>
<tr>
<td>6</td>
<td>GN 372</td>
<td>and Germn Cult Civ 1832-Present</td>
</tr>
<tr>
<td>3</td>
<td>GN 403</td>
<td>Undergraduate Seminar</td>
</tr>
<tr>
<td>6</td>
<td>Approved 300-level or higher GN elective</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Advisor-approved elective</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** A minimum of two adviser-approved literature courses.

Select one of the following German literature courses:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>GN 264</td>
<td>German Literature Translatn I</td>
</tr>
<tr>
<td>3</td>
<td>GN 265</td>
<td>German Lit In Translatn II</td>
</tr>
<tr>
<td>3</td>
<td>GN 403</td>
<td>Undergraduate Seminar</td>
</tr>
<tr>
<td>3</td>
<td>GN 404</td>
<td>Undergraduate Seminar</td>
</tr>
</tbody>
</table>

**NOTE:** A minimum of two adviser-approved literature courses.

1. See German adviser regarding this option.
Recommended courses, or a topic-appropriate course.

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement.

To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

- CEE 320 Survey Elementary Eductn 3
- CEE 365 Literature For Children 3
- HD 101 Life Span Human Development 3

Additionally, the internship should be CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels. See general studies requirements listed earlier in this section.

**Latin**

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

**NOTE:** Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

**General Studies (60 Hours)**

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

**Professional Studies (31-34 Hours)**

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 320</td>
<td>Survey Elementary Eductn</td>
<td>3</td>
</tr>
<tr>
<td>CEE 365</td>
<td>Literature For Children</td>
<td>3</td>
</tr>
<tr>
<td>HD 101</td>
<td>Life Span Human Development</td>
<td>3</td>
</tr>
</tbody>
</table>

To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL 222</td>
<td>Greek Roman Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CL 350</td>
<td>Roman Religion (or equivalent 300-level or higher culture elective)</td>
<td>3</td>
</tr>
<tr>
<td>CL 380</td>
<td>Special Topics (or equivalent literature elective)</td>
<td>3</td>
</tr>
<tr>
<td>LA 101</td>
<td>Elementary Latin I</td>
<td>3</td>
</tr>
<tr>
<td>LA 102</td>
<td>Elementary Latin II</td>
<td>3</td>
</tr>
<tr>
<td>LA 201</td>
<td>Intermed Latin Read I</td>
<td>3</td>
</tr>
<tr>
<td>LA 202</td>
<td>Intermed Latin Read II</td>
<td>3</td>
</tr>
<tr>
<td>LA 301</td>
<td>Survey Lit Roman Republ</td>
<td>3</td>
</tr>
<tr>
<td>LA 302</td>
<td>Survey Lit Of Empire</td>
<td>3</td>
</tr>
<tr>
<td>LA 490</td>
<td>Readings In Latin Literature</td>
<td>3</td>
</tr>
<tr>
<td>Advisor-approved electives (300-level or higher)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics (6-12)**

http://education.ua.edu/academics/ci/sema/

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

**NOTE:** Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination,
admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

**General Studies (60 Hours)**

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

**Professional Studies (31-34 Hours)**

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF/BEP 360</td>
<td>Social Psychol Foundtns Educ</td>
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</tr>
<tr>
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<td>Assess Of Classrm Learng</td>
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</tr>
<tr>
<td>CRD 412</td>
<td>Impr Read Second Schools</td>
<td>3</td>
</tr>
<tr>
<td>CSE 390</td>
<td>Instruct Accomd Sec Sch</td>
<td>3</td>
</tr>
<tr>
<td>CSE 493</td>
<td>Diversity Block Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CSE 489</td>
<td>Clinic Exp Second School</td>
<td>3</td>
</tr>
<tr>
<td>CSE 497</td>
<td>Sec School Teaching</td>
<td>9-12</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Stratg</td>
<td>3</td>
</tr>
<tr>
<td>Discipline-specific CSE methods course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSE 483</td>
<td>Teach Second School Math</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 31-34

1 This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinic Exp Second School, CRD 412 Impr Read Second Schools, BER 450 Assess Of Classrm Learng and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinic Exp Second School and methods course.

**Teaching Field**

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

Choose CS 100 or CS 104

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 401</td>
<td>Tech for Teaching Sec. Math</td>
<td>3</td>
</tr>
<tr>
<td>CSE 406</td>
<td>Curriculm Secondary Math</td>
<td>3</td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 126</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 227</td>
<td>Calculus III</td>
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<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
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<tr>
<td>MATH 238</td>
<td>Appld Diff Equations I</td>
<td>3</td>
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<tr>
<td>MATH 301</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 355</td>
<td>Theory Of Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 403</td>
<td>Adv Math Connections &amp; Devlpmn</td>
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</tbody>
</table>

Total Hours: 49-50

1 Admission to TEP is required

A student’s proficiency in the content of MATH 112 Precalculus Algebra and MATH 115 Precalculus & Trig will be tested. The scores achieved determine whether a student must complete one or more of these courses as prerequisites for the following coursework in the major. Credit for courses numbered below MATH 125 Calculus I may be applied to the degree requirements only as elective credit. See general studies requirements listed earlier in this section.

**General Science (Comprehensive, 6-12) with content major of Biology**

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

NOTE: Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

**General Studies (60 Hours)**

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

**Professional Studies (34 Hours)**

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

Choose CS 100 or CS 104

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BEF/BEP 360</td>
<td>Social Psychol Foundtns Educ</td>
<td>3</td>
</tr>
<tr>
<td>BER 450</td>
<td>Assess Of Classrm Learng</td>
<td>3</td>
</tr>
<tr>
<td>CRD 412</td>
<td>Impr Read Second Schools</td>
<td>3</td>
</tr>
<tr>
<td>MATH 404</td>
<td>Topics Math Secondary Teachers</td>
<td>1</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Geometry For Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 409</td>
<td>Advanced Data Analysis</td>
<td>3</td>
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<tr>
<td>MATH elective</td>
<td>Select one of the following</td>
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<tr>
<td>MATH 371</td>
<td>Advanced Linear Algebra</td>
<td>3</td>
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<tr>
<td>MATH 410</td>
<td>Numerical Linear Algebra</td>
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</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Prin Modern Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 485</td>
<td>Intro Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>MATH 486</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 499</td>
<td>Undergrad Research Exp</td>
<td>3</td>
</tr>
<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
<td>3</td>
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Total Hours: 31-34
CSE 390  Instructn Accommnd Sec Sch  3
CSE 476  Improving Science Teaching  3
CSE 493  Diversity Block Seminar  1
CSE 489  Clinic Exper Second School  3
CSE 497  Sec School Teaching  9
SPE 300  Survey Spe Accommnd Stratg  3
Discipline-specific CSE methods course  3
CSE 486  Teach Second Sch Science  3

Total Hours  34

1 This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinic Exper Second School, CRD 412 Impro Read Second Schools, BER 450 Assess Of Classrm Lrnrng and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinic Exper Second School and methods course.

Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

<table>
<thead>
<tr>
<th>Biology</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BSC 114 Principles Of Biology I</td>
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<tr>
<td>BSC 115 Laboratory Biology I</td>
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<tr>
<td>BSC 116 Principles Biology II</td>
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<tr>
<td>BSC 117 Biology II Laboratory</td>
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</tr>
<tr>
<td>BSC 215 Human Anatomy &amp; Physiology I</td>
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<tr>
<td>BSC 216 Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BSC 300 Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 315 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BSC 385 Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>300-level or higher Advisor-approved BSC elective</td>
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</tr>
<tr>
<td>300-level or higher Advisor-approved BSC or MS elective</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

| Select one of the following laboratory electives: | 2-4 |
|-------|
| BSC 312 Microbiology Lab |
| BSC 313 Gen Bacteriology Lab |
| BSC 314 Dendrology |
| BSC 386 General Ecology Lab |
| BSC 425 Human Physiology Lab |
| BSC 439 Bch/Molecular Biology Lab |

<table>
<thead>
<tr>
<th>CSE 442 Integrated Genomics</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 497 Special Topics</td>
</tr>
<tr>
<td>MATH 125 Calculus I</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
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<tr>
<td>CH 237 Elem Organic Chem Lab</td>
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<table>
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<tr>
<th>Physics</th>
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<tbody>
<tr>
<td>PH 101 General Physics I</td>
</tr>
<tr>
<td>PH 102 General Physics II</td>
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<tbody>
<tr>
<td>AEM 120, or AY 101 and AY 102</td>
</tr>
<tr>
<td>GEO 101 The Dynamic Earth</td>
</tr>
</tbody>
</table>

Total Hours  74-77

General Science (Comprehensive, 6-12) with content major of Chemistry

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

NOTE: Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies (34 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
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<td>3</td>
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<td>3</td>
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</table>

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<td>AEM 120, or AY 101 and AY 102</td>
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</table>

Total Hours  74-77

General Science (Comprehensive, 6-12) with content major of Chemistry

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

NOTE: Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies (34 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

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<td>3</td>
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<td>3</td>
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<td>3</td>
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<tr>
<td>1</td>
</tr>
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<td>3</td>
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</tbody>
</table>

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|-------|
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<td>AEM 120, or AY 101 and AY 102</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

Total Hours  74-77
The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

### Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

<table>
<thead>
<tr>
<th>Teaching Field</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Chemistry</strong></td>
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<tr>
<td>CH 101 or</td>
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<td>CH 118</td>
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<td>CH 223</td>
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<td>CH 231</td>
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<td>CH 232</td>
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<td>CH 340</td>
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<td>CH 343</td>
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<td>CH 413</td>
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<td>CH 461</td>
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<td>CH 462</td>
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<td>MATH 126</td>
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<tr>
<td><strong>Biology</strong></td>
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<td>BSC 114 and BSC</td>
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<td>BSC 116 and BSC</td>
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<td>BSC 120</td>
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<td>PH 101 or PH</td>
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<tr>
<td>PH 102 or PH</td>
<td>4</td>
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<td>PH 253</td>
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<td>PH 255</td>
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<td>PH 405</td>
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<td>PH 411</td>
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</tr>
<tr>
<td><strong>Integrated Science</strong></td>
<td></td>
</tr>
<tr>
<td>AEM 120, or AY 101</td>
<td>4</td>
</tr>
<tr>
<td>GEO 101</td>
<td>4</td>
</tr>
</tbody>
</table>

### General Science (Comprehensive, 6-12) with content major of Physics

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

**NOTE:** Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests. An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

### General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

### Professional Studies (34 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

<table>
<thead>
<tr>
<th>Professional Studies</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BEF/BEP 360</td>
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</tr>
<tr>
<td>BER 450</td>
<td>3</td>
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<tr>
<td>CRD 412</td>
<td>3</td>
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<tr>
<td>CSE 390</td>
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<td>CSE 476</td>
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<td>CSE 489</td>
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<td>CSE 497</td>
<td>9</td>
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<tr>
<td>SPE 300</td>
<td>3</td>
</tr>
<tr>
<td>Discipline-specific CSE methods course</td>
<td>3</td>
</tr>
</tbody>
</table>

### Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.
on the most recent previous admissions.

Chairperson or his or her adviser information concerning summative data (formerly Basic Skills). An individual may request from the program admission interview and complete each of the following requirements: writing examination, program. Each student will be given two opportunities to satisfactorily does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

### General Social Science (Comprehensive, 6-12)

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science degree and the Alabama Class B (6-12) Professional Certificate.

**NOTE:** Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

### General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

### Professional Studies (34-37 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

### Discipline-specific CSE methods course

This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinical Exper Second School, CRD 412 Impr Read Second Schools, BER 450 Assess Of Classrm Learnng and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinical Exper Second School and methods course.

### Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.
Spanish (6-12)

The programs in secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6-12) Professional Certificate.

NOTE: Admission to this program is competitive; meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview and Praxis Core Academic Skills for Educators Tests (formerly Basic Skills). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

General Studies (60 Hours)

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

See general studies requirements listed earlier in this section. Courses from areas II, III and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies (31-34 Hours)

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses. A student may not enroll in more than the five professional studies courses prior to unconditional admission to TEP.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BEF/BEP 360</td>
<td>Social Psychol Foundtns Educ</td>
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<tr>
<td>CSE 493</td>
<td>Diversity Block Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CSE 489</td>
<td>Clinic Exper Second School</td>
<td>3</td>
</tr>
<tr>
<td>CSE 497</td>
<td>Sec School Teaching</td>
<td>9-12</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Stratg</td>
<td>3</td>
</tr>
<tr>
<td>Discipline-specific CSE methods course (Select the appropriate course for 6-12 or P-12 certification).</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSE 480</td>
<td>Teach Sec Sch Forng Lang (6-12)</td>
<td></td>
</tr>
<tr>
<td>CIE 480</td>
<td>Meth Teach Foreign Langs (P-12)</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 31-34

1 This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489 Clinic Exper Second School, CRD 412 Imp Read Second Schools, BER 450 Assess Of Classrm Learnig and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 Clinic Exper Second School and methods course.

Teaching Field

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 201</td>
<td>Intermediate Spanish</td>
<td>6</td>
</tr>
<tr>
<td>&amp; SP 202</td>
<td>and Intermediate Spanish</td>
<td></td>
</tr>
<tr>
<td>SP 353</td>
<td>Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SP 356</td>
<td>Adv Grammar And Compos</td>
<td>3</td>
</tr>
<tr>
<td>SP 361</td>
<td>Intro Romance Linguistic (preferred, or SP 300-level or higher elective)</td>
<td>3</td>
</tr>
<tr>
<td>SP 364 or</td>
<td>Spanish Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SP 366</td>
<td>Spanish-American Civ</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 371 or</td>
<td>Survey Of Spanish Lit</td>
<td>6</td>
</tr>
<tr>
<td>SP 375</td>
<td>Masterpc Sp-Amer Lit I</td>
<td></td>
</tr>
<tr>
<td>SP 372 or</td>
<td>Survey Of Spanish Lit</td>
<td></td>
</tr>
<tr>
<td>SP 376</td>
<td>Masterpc Sp-Amer Lit II</td>
<td></td>
</tr>
<tr>
<td>SP 484</td>
<td>Phonetics And Pronunciation</td>
<td>3</td>
</tr>
<tr>
<td>SP 491</td>
<td>Cervantes</td>
<td>3</td>
</tr>
<tr>
<td>SP 400-level elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Two Advisor-approved electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>39</td>
</tr>
</tbody>
</table>

Additional adviser-approved electives may be necessary to meet the 120-hour degree requirement.

To expand certification in this foreign language field to the P-12 level, students should complete the requirements above and add the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 320</td>
<td>Survey Elementary Eductn</td>
<td>3</td>
</tr>
<tr>
<td>CEE 365</td>
<td>Literature For Children</td>
<td>3</td>
</tr>
<tr>
<td>HD 101</td>
<td>Life Span Human Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Additionally, the internship should be CIE 497 Intern Foreign Lang Educ, which will be divided between the P-6 and 6-12 levels. See general studies requirements listed earlier in this section.

Middle School (4-8) Endorsement on Secondary Certificate (6-12)

By completing several additional requirements, a student fulfilling the requirements for certification in a secondary school (6-12) teaching field may also obtain middle-school certification in the same field. Those who hold middle school certification may teach in their subject fields in grades 4-8; they are not eligible, however, to teach in self-contained elementary classrooms. The additional requirements of the middle school endorsement program may be secured in 104 Carmichael Hall.
Types of Jobs Accepted
Graduates of the Secondary Education program are teaching in many school systems in Alabama and across the country.

Learn more about opportunities in this field at the Career Center

Department of Educational Leadership, Policy and Technology Studies
Professor Claire Major, Department Head
Office: 301-C Graves Hall

Computers and Applied Technology (CAT)
Associate Professor Margaret Rice (Program Coordinator)
Office: 315-F Graves Hall

Courses provided in computers and applied technology are commonly used to satisfy part of the general studies requirements for the College of Education baccalaureate degree. Undergraduates often use CAT 200 Computer Education Application and CAT 250 Computer Educ Curric Devel to meet the University’s core curriculum requirement for foreign language/computer science.

Social and Cultural Studies in Education (BEF)
Professor John Petrovic (Program Coordinator)
Office: 307-C Graves Hall

Foundations in education course offerings include basic support for undergraduate and graduate teacher education programs throughout the College of Education and for programs in other units of the College and the University. Students in a teacher education program are typically required to take at least one Foundations of Education course covering studies in philosophy, history and sociology of education.

BEF360 Social Psychol Foundtns Educ
Hours 3
An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

CAT100 Computer Concepts & Applicatn
Hours 3
Fundamentals of computer use in education, including software applications, keyboard functions, peripherals, utilities, and software.

Faculty
Department Head and Professor
Claire Howell Major

Professors
Natalie Adams
Nirmala Erevelles
Philo A. Hutcheson
Bob L. Johnson
Stephen G. Katsinas
Frankie Santos Laanan
Douglas McKnight
John E. Petrovic
Stephen Tomlinson
Vivian Wright

Associate professors
Becky Atkinson
Angela Benson
Nathaniel James Bray
David Hardy
Karri Holley
Roxanne Mitchell
Margaret L. Rice

Assistant professors
Andre R. Denham
Cindy Ann Kilgo
Bryan Mann
Steve Mobley, Jr.
Jingping Sun
Krystal Williams

Clinical professor
Philip Westbrook
Clinical associate professors
Arlene Breaux
Brenda Mendiola
Clinical assistant professor
Yvette Bynum

Department of Educational Studies in Psychology, Research Methodology and Counseling
Professor Aaron Kuntz, Department Head
Office: 306-C Carmichael Hall

Program in Counselor Education (BCE)
Professor Joy Burnham, Program Coordinator
Office: 304-B Graves Hall

The Program in Counselor Education assists undergraduate students in exploring counseling services that supplement elementary and secondary school academic programs. Undergraduates may examine the essential elements of school counseling and guidance either in preparation for employment in school settings or as a foundation for graduate study in counselor education.

Program in Educational Psychology (BEP)
Professor Steve Thoma, Program Coordinator
Office: 310 Carmichael Hall
Undergraduate coursework provided by the Program in Educational Psychology supports College of Education undergraduate teacher
education programs and other programs across the University. The coursework is designed to provide basic knowledge and competencies related to human learning and development. The Program in Educational Psychology offers several graduate degrees, as described in The University of Alabama graduate catalog.

Program in Educational Research (BER)

Associate Professor Sara Tomek, Program Coordinator
Office: 313 Carmichael Hall

Courses provided by the Program in Educational Research support College of Education undergraduate teacher education programs and are designed to provide basic assessment competencies for future teachers.

Program in School Psychology (BSP)

The Program in School Psychology offers several graduate degrees, as described in The University of Alabama graduate catalog.

BCE101 Freshman Compass: UA FCMP
Hours 2

This course for first-year UA students provides an introduction to the nature of higher education and to the function, resources, and activities of The University of Alabama. This course is designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for degree attainment.

BEP110 Intro Learning Strateg Skills
Hours 3

Provides students with a theoretical and practical understanding of the importance and use of specific learning strategies. This course will also engage students in reflective decision making and critical evaluation of their learning process.

BER345 Educational Statistics
Hours 3

Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

View All Courses

Faculty

Department Head and Professor
Aaron Kuntz

Professors
Joy Burnham
Rick Houser
Randall Schumacker
Stephen I. Thoma

Associate professors
Jamie D. Mills
Sara Elizaeth Tomek

Assistant professors
Youn-Jeng Choi
Ryan Cook
Kelly Guyotte
Hyemin Han
Lisa Hsin
Katie Rose King
Michael Lawson
Wei Li
Junfei Lu
Wenchao Ma
Laura M. Morett
George Mugoya
Stephanie Shelton
Firat Soylu
Stefanie Wind

Clinical professor
Judy Giesen

Clinical associate professors
Ann Godfrey
Stacy Hughey-Surman

Clinical assistant professors
Melinda Adkins
Heather Britnell
Millie Dawson-Hardy
Anthony Derriso
Corrie Harris
Michael Lawson
Doris Vaughans

Department of Kinesiology

Associate Professor Jonathan Wingo, Department Head
Office: 1002 Moore Hall
The major in Human Performance (BSE) offers two programs of study:
• Human Performance Physical Education (p. 1119)
• Human Performance Exercise Science (p. 1118)

KIN101 Physical Conditioning
Hours 1

The purpose of this course is to introduce the student to the knowledge base underlying proper physical conditioning of the body and appropriate techniques for participation.

KIN102 Horseback Riding
Hours 1-3

The purpose of this course is to provide students with the knowledge and skills needed to participate in horseback riding.
Faculty
Department Head and Associate Professor
Jonathan E. Wingo

Professors
Matthew D. Curtner-Smith
Mark T. Richardson
John Vincent

Associate professors
Michael Esco
L. Brent Hardin
Oleg A. Sinelnikov

Assistant professors
Michael Fedewa
Hayley MacDonald
K. Andrew R. Richards
Dylan Williams

Clinical assistant professors
Colleen Geary
Margaret Stran
Elizabeth Woodruff

Clinical instructor
Evan Enquist

Human Performance Exercise Science

The bachelor's degree includes a 34-hour core of kinesiology courses. Students then opt to take 36-39 hours in two or three areas, including fitness, health promotion, nutrition, sport and fitness management, coaching/sport skill, pre-professional, and disability sports. Finally, students may have room in their program for one 3-hour elective course, depending on the areas chosen.

Clinical Assistant Professor Colleen Geary
Office: 1023 Moore Hall

This area of study leads to the bachelor of science in education degree and requires the completion of 120 semester hours as specified below. The program does not lead to professional certification as a teacher. A prospective student must

1. complete 45 hours of applicable courses toward the degree, and
2. have at least a 2.0 GPA before taking upper-division (300-level or above) courses in the program of study.

General Studies: 50 hours

See general studies requirements (p. 1097) listed earlier in this section. The following exceptions apply:

- Area II: Student may substitute a different Area II course for the public-speaking requirement.
- Area III: BSC 109 Intro Biology Non Maj II should be taken to meet prerequisite requirements. Students pursuing pre-professional studies should take BSC 114 with BSC 115 instead of BSC 109.

Kinesiology Core

All students in the major must complete the kinesiology core:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 215</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>ATR 272</td>
<td>First Aid, Safety &amp; CPR</td>
<td>1</td>
</tr>
<tr>
<td>BSC 216</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>KIN 199</td>
<td>Ecol Appr Hlth &amp; Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KIN 300</td>
<td>Intro to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 362</td>
<td>Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 365</td>
<td>Applied Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 366</td>
<td>Evaluation and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 464</td>
<td>Admin Phys Educ &amp; Sport</td>
<td>3</td>
</tr>
<tr>
<td>KIN 468</td>
<td>Adapted Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 492</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 33

Electives: 36 hours

Students in the major must complete a minimum of 36 hours of electives taken from the following list. This should be discussed with an advisor in the Department of Kinesiology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 257</td>
<td>Intro to Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>CH 101</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 102</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>HHE 370</td>
<td>Prin/Foundation Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>HHE 378</td>
<td>Drug Awareness Education</td>
<td>3</td>
</tr>
<tr>
<td>HHE 440</td>
<td>Understanding Stress Mgt</td>
<td>3</td>
</tr>
<tr>
<td>HHE 467</td>
<td>Design Eval Health Promo</td>
<td>3</td>
</tr>
<tr>
<td>KIN leisure activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>300-level or above KIN (coaching)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KIN 306</td>
<td>Analysis Teaching Movement I</td>
<td>3</td>
</tr>
<tr>
<td>KIN 388</td>
<td>Professional Dev. in Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KIN 387</td>
<td>Adapted Sports Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 401</td>
<td>Sport Admin.: Princ. and Pract</td>
<td>3</td>
</tr>
<tr>
<td>KIN 402</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>KIN 403</td>
<td>Legal Issues in Sport</td>
<td>3</td>
</tr>
<tr>
<td>KIN 404</td>
<td>Financial Issues in Sport</td>
<td>3</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Internships-Disability Sport</td>
<td>6</td>
</tr>
<tr>
<td>KIN 488</td>
<td>Internships-Fitness</td>
<td>1-12</td>
</tr>
<tr>
<td>KIN 493</td>
<td>Fit Apprsl Exer Prescrip</td>
<td>3</td>
</tr>
<tr>
<td>KIN 496</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>Precalculus Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>NHM 101</td>
<td>Intro Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 210</td>
<td>Dynamics Weight Control</td>
<td>3</td>
</tr>
<tr>
<td>NHM 315</td>
<td>Nutrition For Performance</td>
<td>3</td>
</tr>
<tr>
<td>NHM 401</td>
<td>Nutrition Health Profesn</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 102</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PY 211</td>
<td>Elem Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PY elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PY elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Types of Jobs Accepted

Graduates pursue jobs such as exercise physiologist, personal trainer, coach, athletic coordinator, sport nutritionist, scientist, or physical therapist.

Jobs of Experienced Alumni

Experienced alumni serve in positions such as strength and conditioning coach, exercise physiologist, university professor, research scientist, coach, personal trainer, physical therapist and occupational therapist.

Learn more about opportunities in this field at the Career Center.

Human Performance Physical Education

Human performance majors pursuing certification in physical education are typically interested in teaching as their main focus and will graduate as highly qualified to teach P-12. Many of our majors are also interested in coaching as well as strength and conditioning and often have the chance for volunteer opportunities to gain experience while undergraduates.

Associate Professor Oleg Sinelnikov
Office: 1009 Moore Hall

Clinical Assistant Professor Elizabeth Woodruff
Office: 2006 Moore Hall

This area of study requires the completion of hours as specified and leads to the Bachelor of Science in Education degree and the Alabama Class B Physical Education (P–12) Professional Educator Certificate. Students who have completed all 100- and 200-level requirements, have a UA GPA — and, if transfer work, a cumulative GPA — of at least 2.75, and have completed BSC 215 Human Anatomy & Physiology I or BSC 216 Human Anatomy & Physiology II, may apply to the physical education teacher education (PETE) methods cohort fall semester of the junior year. Additionally, students must have earned passing scores on all three components (reading, writing, and math) of the Praxis Core Academic Skills for Educators Test (or passing scores on all components of the previously accepted Basic Skills tests before September 1, 2017).

Admission to the PETE methods cohort is competitive. Meeting minimum requirements does not guarantee admission. Rather, students who meet stated criteria are guaranteed consideration for admission to the teacher education program (TEP). An individual may request from his or her adviser information concerning summative data on the most recent advising sheets available from academic advisers in 104 Carmichael Hall.

Students will apply to TEP while they are enrolled in KIN 350 Secondary Curriculum, fall term. They must meet TEP admission requirements, have a 2.75 GPA (UA and cumulative) in areas I–V and all coursework, and have completed an application. Applications for TEP are available in 104 Carmichael Hall.

The undergraduate catalog is published annually. DegreeWorks is updated more frequently and is likely to provide the most up-to-date information on degree and other requirements. In addition, students should obtain the most recent advising sheets available from academic advisers in 104 Carmichael Hall.

General Studies: 54 hours

Courses that are common to the teaching field and the general studies component may be applied to both. See general studies requirements (p. 1097), listed earlier. The following exceptions apply:

- Area II: Courses should be selected to meet teaching field or prerequisite requirements.
- Area III: BSC 109 Intro Biology Non Maj II or BSC 114 Principles Of Biology I/BSC 115 Laboratory Biology I should be selected to meet prerequisite requirements.
- Area IV: Courses should be selected to meet teaching field or prerequisite requirements.
- Area V: In addition to those courses listed in General Requirements, BSC 215 Human Anatomy & Physiology I or BSC 216 Human Anatomy & Physiology II and ATR 272 First Aid, Safety & CPR should be selected from remaining hours.

Physical Education Teaching Field: 40 hours

The University of Alabama GPA—and, if transfer work, the cumulative GPA—must be at least 2.75 in these courses.
KIN 351 Secondary Clinical Experience must be taken concurrently with KIN 350 Secondary Curriculum.

KIN 360 Subj Matter Elem Physical Educ must be taken concurrently with KIN 361 Elem Phys Ed Curr Phil Theory.

KIN 199 Ecol Appr Hlth & Fitness 3
KIN 300 Intro to Kinesiology 3
KIN 305 Dance & Gymnastics 2
KIN 306 Analysis Teaching Movement I 3
KIN 307 Teach Trk & Fld/Net Game 2
KIN 310 Teaching Swimming 2
KIN 311 Tch Hlth Related Fitness 1
KIN 351 Secondary Clinical Experience 3
KIN 360 Subj Matter Elem Physical Educ 3
KIN 361 Elem Phys Ed Curr Phil Theory 3
KIN 362 Motor Development 3
KIN 365 Applied Biomechanics 3
KIN 464 Admin Phys Educ & Sport 3
KIN 468 Adapted Physical Education 3
KIN 492 Physiology of Exercise 3

Total Hours 40

Professional Studies

Students must earn grades of C or higher in each of the following professional studies courses. No more than five professional studies courses may be taken prior to admission to TEP (see adviser for appropriate course sequence). The University of Alabama GPA—and, if transfer work, the cumulative GPA—must be at least 2.75 in these courses. KIN 350 Secondary Curriculum must be taken concurrently with KIN 351 Secondary Clinical Experience.

BEF 362 School, Culture, and Society 3
BEP 305 Educational Psychology 3
KIN 350 Secondary Curriculum 3
KIN 366 Evaluation and Measurement 3
KIN 487 Physical Educ Teach Pract 3
KIN 497 Internship Phys Education 12
SPE 300 Survey Spe Accomd Stratg 3

Total Hours 30

Our PETE graduates have been very competitive in the job market. Many of them choose to teach in the Southeast, while some venture further away. A fairly high percentage of our students go on to graduate school and study for advanced practitioner degrees or degrees which enable them to study and teach sport instruction in university settings.

Types of Jobs Accepted

Our recent graduates initially accept elementary, middle school and high school physical education teaching/coaching positions.

Jobs of Experienced Alumni

certified master teacher; principal; university instructor; university professor; high school PE teacher and head basketball coach

Learn more about opportunities in this field at the Career Center

Department of Music Education

Associate Professor Marvin E. Latimer, Department Head
Office: 261-A Moody Music Building

The programs in music education require the completion of at least 146 semester hours as specified in this section and lead to the bachelor of science in education degree and the Alabama Class B (P–12) professional certificate.

With permission from the music education department head, BS students in music education may also pursue a second bachelor’s degree in music (BM). This option requires 34–54 additional credit hours to earn a BM degree, depending on the area of focus (e.g., performance, jazz studies, composition or theory).

The undergraduate catalog is published annually. Program advising sheets are updated more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should obtain the most recent advising sheets, available from 261 Moody Music Building.

- Majors
  - Music Education (BSE) with Certification in Instrumental Music (p. 1120)
  - Music Education (BSE) with Certification in Vocal/Choral Music (p. 1122)

MUE107 Basic Skills In Music
Hours 2

Basic music-reading skills developed through singing and playing of instruments. The course is designed for the prospective elementary school teacher and is a prerequisite for MUE 385. Students with previous musical training may elect to demonstrate equivalent skills through testing.

MUE200 Intro to Music Education
Hours 2

Techniques associated with teaching music in the public schools. Development of classroom management skills and reflection on the role of the music educator in contemporary classrooms.

View All Courses

Faculty

Department Head and Associate Professor
Marvin E. Latimer

Professor
Carl Hancock

Associate Professor
Kenneth M. McGuire

Instructor
Anne Witt

Music Education, BSE (Certification in Instrumental Music)

Students should have a strong background in music, with performance experience on a particular instrument or designated voice type.

Auditions
All students must pass an audition and a music fundamentals exam in order to declare a music education major. To schedule an audition, students must contact the School of Music for a separate application. Auditions typically take place between January and the first week of March prior to fall enrollment. With the assistance of a Music Education advisor, students will formally declare the major the first semester of enrollment after formal acceptance to the School of Music. Transfer students should declare the major the first semester of enrollment after formal admission to the School of Music, with the assistance of a Music Education advisor.

**General Studies: 47–49 hours**

Courses that are common to the teaching field and the general studies component may be applied to both. Music education majors should select PY 101 Intro To Psychology or HD 101 Life Span Human Development and MUS 250 Music In World Cultures to satisfy UA Core Curriculum behavioral science and fine arts requirements.

**Instrumental Music Teaching Field: 66–69 hours**

The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

**Music Academics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 217</td>
<td>Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUS 251</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Music History III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 351</td>
<td>Fund Of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 494</td>
<td>Band Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUE 200</td>
<td>Intro to Music Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>34</td>
</tr>
</tbody>
</table>

**Applied and Ensemble**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUA 010</td>
<td>Music Convocation (x 5)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Principal Applied:</td>
<td></td>
</tr>
<tr>
<td>MUA 170-MUA 190</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUA 270-MUA 290</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUA 199</td>
<td>Sophomore Qualifying</td>
<td>0</td>
</tr>
<tr>
<td>MUA 370-MUA 390</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUA 470-MUA 490</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUA 499</td>
<td>Senior Recital</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Instrumental Ensemble courses (minimum one per term):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>100-level ensemble (2 hrs, one per semester)</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>200-level ensemble (2 hrs, one per semester)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>300-level ensemble (2 hrs)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>400-level ensemble (1 hr, one semester)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Piano (0-4 hours)</td>
<td></td>
</tr>
<tr>
<td>MUA 299</td>
<td>Piano Proficiency (Exam)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Complete the following with no grade less than a B:</td>
<td>1-4</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td></td>
</tr>
<tr>
<td>MUA 121</td>
<td>Class Piano I</td>
<td></td>
</tr>
<tr>
<td>MUA 122</td>
<td>Class Piano II</td>
<td></td>
</tr>
<tr>
<td>MUA 123</td>
<td>Class Piano III</td>
<td></td>
</tr>
<tr>
<td>MUA 124</td>
<td>Class Piano IV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>22-25</td>
</tr>
</tbody>
</table>

1 Course numbers MUA 170 Harp (Majors)—MUA 190 Guitar (Majors), MUA 270 Harp (Majors)—MUA 290 Guitar (Majors), MUA 370 Harp (Majors)—MUA 390 Guitar (Majors), and MUA 490 Guitar (Majors) denote private study of the principal instrument or voice for music majors; each course carries one to four hours of credit and may be repeated for credit. Music majors should register for the principal applied instrument at the 100-level during the first two semesters and at the 200-level during the second two semesters at the University. Following successful completion of the sophomore qualifying examination (MUA 199 Sophomore Qualifying), students should register for the principal applied instrument at the 300-level for two semesters and one semester at the 400-level. Weekly meeting times for studio instruction must be arranged with the instructor at 3 p.m. on the first day of classes of a semester.

2 Students must register for MUA 299 Piano Proficiency to show evidence of passing piano proficiency examination. Students completing the Class Piano series should register for MUA 299 Piano Proficiency concurrently with MUA 124 Class Piano IV. Students are required to take piano until evidence of passing the piano proficiency is provided.

**Class Instruments**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 252</td>
<td>Teach String/Percu Instr</td>
<td>2</td>
</tr>
<tr>
<td>MUE 351</td>
<td>Tchg Flute Single Reeds</td>
<td>3</td>
</tr>
<tr>
<td>MUE 352</td>
<td>Teaching Double Reeds</td>
<td>1</td>
</tr>
<tr>
<td>MUE 353</td>
<td>Teach Brass Instruments</td>
<td>2</td>
</tr>
<tr>
<td>MUE 354</td>
<td>Teaching Percussion II</td>
<td>1</td>
</tr>
<tr>
<td>MUE 381</td>
<td>Vocal Methods Lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>10</td>
</tr>
</tbody>
</table>

See general studies requirements (p. 1097) listed earlier in this section.

**Professional Studies: 36 hours**

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 362</td>
<td>School, Culture, and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BEP 305</td>
<td>Educational Psychology 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>CRD 412</td>
<td>Impr Read Second Schools 1</td>
<td>3</td>
</tr>
<tr>
<td>MUS 448</td>
<td>Tchg Instrumental Music Pub S</td>
<td>3</td>
</tr>
<tr>
<td>MUE 387</td>
<td>Elem School Music Program</td>
<td>3</td>
</tr>
<tr>
<td>MUE 389</td>
<td>Clinical Experience In Mue 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>MUE 350</td>
<td>Evaluatn Teaching Learning Mus</td>
<td>3</td>
</tr>
<tr>
<td>MUE 497</td>
<td>Internship Music Educ</td>
<td>12</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Stratg 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

1 A student may not enroll in more than five identified professional studies courses prior to unconditional admission to TEP.
This is a prerequisite for admission to the teacher education program.

Auditions
All students must pass an audition and a music fundamentals exam in order to declare a music education major. To schedule an audition, students must fill out a separate application to the School of Music. Visit music.ua.edu/apply-audition for an application or more information. Auditions typically take place between January and the first week of March prior to fall enrollment. With the assistance of a Music Education advisor, students will formally declare the major the first semester of enrollment after formal acceptance to the School of Music. Transfer students should declare the major the first semester of enrollment after formal admission to the School of Music, with the assistance of a Music Education advisor. Students completing this degree program are fully prepared to teach in a K-12 setting in a public school environment.

Types of Jobs Accepted
Students completing this program are routinely employed at the high school, middle school and elementary levels.

Learn more about opportunities in this field at the Career Center

Music Education, BSE (Certification in Vocal/Choral Music)

Students should have a strong background in music, with performance experience on a particular instrument or designated voice type.

Auditions
All students must pass an audition and a music fundamentals exam in order to declare a music education major. To schedule an audition, students must contact the School of Music for a separate application. Auditions typically take place between January and the first week of March prior to fall enrollment. With the assistance of a Music Education advisor, students will formally declare the major the first semester of enrollment after formal acceptance to the School of Music. Transfer students should declare the major the first semester of enrollment after formal admission to the School of Music, with the assistance of a Music education advisor.

General Studies: 47–49 hours
Courses that are common to the teaching field and the general studies component may be applied to both. Music education majors should select PY 101 Intro To Psychology or HD 101 Life Span Human Development and MUS 250 Music In World Cultures to satisfy UA Core Curriculum behavioral science and fine arts requirements.

Vocal/Choral Music Teaching Field: 65 hours
The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75.
Professional Studies: 36 hours

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 362</td>
<td>School, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BEP 305</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CRD 412</td>
<td>Impr Read Second Schools</td>
<td>3</td>
</tr>
<tr>
<td>MUS 447</td>
<td>Teaching Choral Music Publ Sch</td>
<td>3</td>
</tr>
<tr>
<td>MUE 387</td>
<td>Elem School Music Program</td>
<td>3</td>
</tr>
<tr>
<td>MUE 389</td>
<td>Clinical Experience In Mue</td>
<td>3</td>
</tr>
<tr>
<td>MUE 350</td>
<td>Evaluatn Teaching Learning Mus</td>
<td>3</td>
</tr>
<tr>
<td>MUE 497</td>
<td>Internship Music Educ</td>
<td>12</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Stratg</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 36

1 A student may not enroll in more than five identified professional studies courses prior to unconditional admission to TEP.

2 This is a prerequisite for admission to the teacher education program.

Students completing this degree program are fully prepared to teach in a K-12 setting in a public school environment.

Types of Jobs Accepted

Students completing this program are routinely employed at the high school, middle school and elementary levels.

Learn more about opportunities in this field at the Career Center

Department of Special Education and Multiple Abilities

Professor Robert A. McWilliam, Department Head
Office: 201-B Graves Hall

The department offers undergraduate programs requiring the completion of a minimum of 120 semester hours as specified. These programs lead to the bachelor of science in education degree and the Alabama Class B Professional Educator Certificate. Admission is competitive, and meeting stated criteria does not guarantee admission. Rather, applicants who meet stated criteria are guaranteed consideration for admission to the Teacher Education Program (TEP). An individual may request from the program chairperson or his or her adviser information concerning summative data on the most recent previous admissions.

- Collaborative Education Program (p. 1124)
- Early Childhood Special Education
- Multiple Abilities Program (p. 1125)

MAP301 Professionalism
Hours 3

This course is designed as a developmental sequence of integrated themes covering historical foundations of education, educational finance, legal and ethical issues, contemporary issues, and fundamental technology concepts and integrated with MAP 302, MAP 403, MAP 404 and MAP 405.

Prerequisite(s): Admission to the Multiple Abilities Program

SPE100 Except Lives in Society
S8

Hours 3

Introduction and overview for non-education majors regarding characteristics of diversity, exceptionalities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included. Through web-based readings/critiques, class lecture, and service learning opportunities, participants in this course will explore diverse populations from within the context of characteristics, issues and trends, cultural differences, and research. Offered fall and spring semesters.

Social and Behavioral Sciences

View All Courses

Faculty

Department Head and Professor
Robert A. McWilliam

Assistant Department Head
John Myrick

Professors
Carol A. Donovan
Kristine Jolivette
N. Kagendo Mutua

Associate Professor
Jennifer Jolley
Sara McDaniel
Jane Lumpkin Newman
Sandra Cooley Nichols
Nicole Cain Swoszowski

Assistant Professor
Ragan McLeod
Laci Watkins

Clinical Professor
Kathy Shaver Wetzel

Clinical Assistant Professors
Ashley Cawley
John Myrick

Clinical instructors
Lisa Burgess
Sharron Maughn
Catherine Price
Collaborative Education Program

The special education and multiple abilities program faculty recognizes special education as a dynamic field dedicated to the realization of human potential. The mission of the Collaborative Education Program is to facilitate ideas and professional knowledge necessary to maximize learning opportunities for prospective practitioners. Ultimately, the impact is on children experiencing cognitive, social, behavioral, physical, or multiple disabilities and on their families.

The Collaborative Education Program is an innovative teacher preparation program that leads to a bachelor of science in education degree with two teacher certification options at the Alabama Class B level: Collaborative (K–6) or Collaborative (K–12).

The undergraduate program is a two-year, upper-division program that prepares students to work in special education settings with children and youth who have a wide range of disabilities. A cohort of students is accepted each fall. Students take the majority of their courses together, work on numerous collaborative assignments and projects with their peers and their instructors and participate in a number of practicums in a variety of educational settings. In addition to practicums and internships in local agencies, students have opportunities to gain practical experience in working with individuals with disabilities. The final semester of the program is devoted to a full-time teaching internship in a local education agency appropriate to the teaching certificate option selected.

A student must have a cumulative and University of Alabama GPA of no less than 2.75 for admission to this TEP. After admission, the student must maintain at least a 2.75 UA and overall GPA in coursework in professional studies and teaching field courses, with no grade less than a C. At least a 2.75 GPA is required for internship.

The undergraduate catalog is published annually. DegreeWorks program guides within myBama are updated as policy changes are made and are thus likely to provide the most up-to-date information on degree and other requirements. In addition, a program handbook with which students are expected to be familiar is available in 201 Graves Hall.

Requirements

General Studies: 60 hours

General studies courses must be completed prior to being admitted to the teacher education program. Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

In addition to the required general studies, students in this program must complete nine additional hours of mathematics and four additional hours of science for a total of 12 hours in each area. Additionally, students must complete 12 hours in English language arts and social science.

Courses from areas II, III and IV, plus any hours remaining in area V, should be used to meet teaching field or prerequisite requirements.

CAT 200 Computer Education Application is required.

Professional Studies

Students must earn grades of C or better in each of the following professional studies courses. The UA GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 362</td>
<td>School, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BEP 305</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 300</td>
<td>Survey Spe Accomd Stratg</td>
<td>3</td>
</tr>
<tr>
<td>SPE 304</td>
<td>Instructional Strategies In Sp</td>
<td>3</td>
</tr>
<tr>
<td>Internship:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPE 499</td>
<td>Internship In Spe (Spco) (Elementary or Secondary)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Hours 24

Teaching Field(s): 36-39 hours

Students must earn grades of C or better in each of the following teaching field courses. The UA GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 380</td>
<td>Teaching Elem Math</td>
<td>3</td>
</tr>
<tr>
<td>CRD 369</td>
<td>Found of Rdg P-6</td>
<td>3</td>
</tr>
<tr>
<td>CRD 400</td>
<td>Teach Readg Diverse Learn K-12</td>
<td>3</td>
</tr>
<tr>
<td>HD 101</td>
<td>Life Span Human Development</td>
<td>3</td>
</tr>
<tr>
<td>SPE 302</td>
<td>Educatl Diagn Measurmt</td>
<td>3</td>
</tr>
<tr>
<td>SPE 374</td>
<td>Working with Families</td>
<td>3</td>
</tr>
<tr>
<td>SPE 382</td>
<td>Teaching Thinking Skills</td>
<td>3</td>
</tr>
<tr>
<td>SPE 414</td>
<td>Collaborative Consultatin</td>
<td>3</td>
</tr>
<tr>
<td>SPE 416</td>
<td>Instruct Strategy Severe Popul</td>
<td>3</td>
</tr>
<tr>
<td>SPE 435</td>
<td>Behavior Management</td>
<td>3</td>
</tr>
<tr>
<td>SPE 493</td>
<td>Intro Severe/Profound Disabili</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Methods for Mild Learning and Behavior Disorders

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 491</td>
<td>Educ Method Elem Mlbdc</td>
<td>3</td>
</tr>
<tr>
<td>SPE 492</td>
<td>should also be completed if earning K-12 certification</td>
<td>0-3</td>
</tr>
</tbody>
</table>

Total Hours 36-39

Types of Jobs Accepted

Our graduates accept positions such as inclusion teachers or traditional special education teachers (self-contained and resource).

Jobs of Experienced Alumni

Our alumni hold positions such as lead special education teacher, administrator, principal, special education supervisor, director of special education, director of a special school.

Learn more about opportunities in this field at the Career Center

Early Childhood Special Education

Through the major in early childhood special education, students learn about the intellectual, physical, social, and emotional development of young children, with and without special needs, and about their families. Students graduating with this major are eligible to be recommended for Alabama Class B certification to teach children with diverse needs (P-3) as well as Alabama Class B certification in early childhood education (P-3).

Experimental learning activities, assessment, and practicums are provided for students on and off campus through the Office of Clinical Experiences. On-campus facilities providing structured practicums include the Child Development Center and the Rural Infant Stimulation Environment (RISE) Program. These programs provide opportunities for students to work with infants, toddlers, and children who have a broad range of special needs. In addition, all students who major in early childhood special education will complete supervised practicum and internships experiences in diverse settings.
The undergraduate catalog is published annually. Program advising sheets are updated as policy changes are made and are thus likely to provide the most up-to-date information on degree and other requirements through DegreeWorks in myBama.

General Studies: 60 hours

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

In addition to the required general studies, students in this program must complete 9 additional hours of mathematics and 4 additional hours of science for a total of 12 hours in each area. Twelve hours in both English language arts and social science are required.

CAT 200 Computer Education Application is required.

See general studies requirements (p. 1097) listed earlier in this section. The following exceptions apply:

- **Area II**: Courses should be selected to meet teaching field or prerequisite requirements.
- **Area IV**: Courses should be selected to meet teaching field or prerequisite requirements.
- **Area V**: From those courses listed in option 2, CAT 200 Computer Education Application and CAT 250 Computer Educ Curric Devel should be selected.

### Requirements

#### General Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEF 362</td>
<td>School, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BEP 305</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 300</td>
<td>Survey Spec Accomp Stragy</td>
<td>3</td>
</tr>
<tr>
<td>SPE 304</td>
<td>Instructional Strategies In Sp</td>
<td>3</td>
</tr>
<tr>
<td>SPE 479</td>
<td>Intern In Early Childhood Spe</td>
<td>6</td>
</tr>
<tr>
<td>SPE 479</td>
<td>Intern In Early Childhood Spe</td>
<td>6</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 60

#### Professional Studies

Students must earn grades of C or higher in each of the following professional studies courses. The University of Alabama GPA — and, if transfer work, the cumulative GPA — must be at least 2.75 in these courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 226</td>
<td>Lang &amp; Speech Develop</td>
<td>3</td>
</tr>
<tr>
<td>CEE 380</td>
<td>Teaching Elem Math</td>
<td>3</td>
</tr>
<tr>
<td>CRD 369</td>
<td>Found of Rdg P-6</td>
<td>3</td>
</tr>
<tr>
<td>CRD 400</td>
<td>Teach R pd Diverse Learn K-12</td>
<td>3</td>
</tr>
<tr>
<td>HD 202</td>
<td>Child Dev-Infancy/Todlr</td>
<td>3</td>
</tr>
<tr>
<td>HD 205</td>
<td>Child Dev-Preschool</td>
<td>3</td>
</tr>
<tr>
<td>SPE 374</td>
<td>Working with Families</td>
<td>3</td>
</tr>
<tr>
<td>SPE 414</td>
<td>Collaborative Consultan</td>
<td>3</td>
</tr>
<tr>
<td>SPE 435</td>
<td>Behavior Management</td>
<td>3</td>
</tr>
<tr>
<td>SPE 471</td>
<td>Dev Persp Young Child W/ Disab</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 60

* Internship will include a placement with at least two of the following age groups: birth-age 3, age 3-5, and age 5-8. Placements will be in appropriate settings that include children with and without identified disabilities.

#### Types of Jobs Accepted

**Birth–3rd grade special education teacher, prekindergarten–3rd grade elementary education teacher, early interventionist, case manager**

**Jobs of Experienced Alumni**

Lead teachers, instructional facilitators, cooperating master teachers, administrators (principal, special education supervisors, directors of non-profit organizations)

Learn more about opportunities in this field at the Career Center

#### Multiple Abilities Program, BSE

The program requires that students continuously work in schools with children. Reading, critical thinking, and problem solving are major strands of the program. Emphasis is also placed on behavior management and special education instructional interventions.

#### Multiple Abilities Program (MAP)

The Multiple Abilities Program (MAP) is an integrated program leading to certification in four areas: collaborative teacher (K-6), elementary education (K-6), early childhood (P-3), and early childhood special education (P-3). This program is open to a cohort of 25 full-time students who are selected to complete the 78-semester-hour course sequence over four consecutive semesters and one summer term. Students may be considered for participation only if, by the end of the summer term prior to MAP coursework, they have completed the College of Education’s general studies program, excluding CAT 200 Computer Education Application and CAT 250 Computer Educ Curric Devel, but including MUE 107 Basic Skills In Music.

The undergraduate catalog is published annually. Program advising sheets are updated as policy changes are made; they are thus likely to provide the most up-to-date information on degree and other requirements through DegreeWorks in myBama.

General Studies: 60 hours

Students are responsible for monitoring core requirements with personnel in 104 Carmichael Hall. Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree. See College of Education Requirements (Required General Studies) listed earlier in this catalog.

Courses from areas II, III and IV, plus any hours remaining in area V, should be used to meet teaching field or prerequisite requirements.

The student is responsible for maintaining a minimum 2.75 GPA for UA coursework, cumulative coursework including transfer work, and MAP coursework.

The following are required to be eligible to continue in the program after the first semester:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 476</td>
<td>Assessment Of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>SPE 477</td>
<td>Differentiated Acad. Instruct</td>
<td>3</td>
</tr>
<tr>
<td>SPE 478</td>
<td>Meth Teach Yng Child W/ Disb</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours Subtotal:** 39

**Total Hours:** 123
• A grade of at least a C in all MAP coursework.
• Demonstrated proficiency in writing coherent, logical, and carefully edited prose.
• A score of 90 percent on the math competency test by the end of the semester.
• Two of the written assignments that have the W designation (see list below) will be assessed for writing competence and returned by midterm in order to give feedback about writing competence. One other written assignment, completed late in the first semester, will also have a W designation. Writing proficiency is required for a passing grade in MAP 301 Professionalism. All MAP written assignments will require coherent, logical, and carefully edited prose.

**Fall I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 301</td>
<td>3</td>
<td>Professionalism (W)</td>
</tr>
<tr>
<td>MAP 311</td>
<td>3</td>
<td>The Learner</td>
</tr>
<tr>
<td>MAP 321</td>
<td>3</td>
<td>Communicatn/Collaboratn (W)</td>
</tr>
<tr>
<td>MAP 331</td>
<td>3</td>
<td>Facilitating Learning</td>
</tr>
<tr>
<td>MAP 341</td>
<td>3</td>
<td>Field Exper/Practicum</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Spring I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 302</td>
<td>3</td>
<td>Professionalism</td>
</tr>
<tr>
<td>MAP 312</td>
<td>3</td>
<td>The Learner</td>
</tr>
<tr>
<td>MAP 322</td>
<td>3</td>
<td>Communicatn/Collaboratn</td>
</tr>
<tr>
<td>MAP 332</td>
<td>3</td>
<td>Facilitating Learning</td>
</tr>
<tr>
<td>MAP 342</td>
<td>3</td>
<td>Field Exper/Practicum</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Summer I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 403</td>
<td>2</td>
<td>Professionalism</td>
</tr>
<tr>
<td>MAP 413</td>
<td>2</td>
<td>The Learner</td>
</tr>
<tr>
<td>MAP 423</td>
<td>1</td>
<td>Communication And Collaboratn</td>
</tr>
<tr>
<td>MAP 433</td>
<td>1</td>
<td>Facilitating Learning</td>
</tr>
<tr>
<td>MAP 443</td>
<td>6</td>
<td>Enrichment Workshop Practicum</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Fall II**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 404</td>
<td>3</td>
<td>Professionalism</td>
</tr>
<tr>
<td>MAP 414</td>
<td>3</td>
<td>The Learner</td>
</tr>
<tr>
<td>MAP 424</td>
<td>3</td>
<td>Communicatn/Collaboratn</td>
</tr>
<tr>
<td>MAP 434</td>
<td>2</td>
<td>Facilitating Learning</td>
</tr>
<tr>
<td>MAP 444</td>
<td>6</td>
<td>Field Experience Spe Interns</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**Spring II**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 405</td>
<td>3</td>
<td>Professionalism</td>
</tr>
<tr>
<td>MAP 415</td>
<td>3</td>
<td>The Learner</td>
</tr>
<tr>
<td>MAP 425</td>
<td>3</td>
<td>Communication/Collaboration</td>
</tr>
<tr>
<td>MAP 435</td>
<td>2</td>
<td>Facilitating Learning</td>
</tr>
<tr>
<td>MAP 445</td>
<td>6</td>
<td>Field Experience Spe Internship</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

* A candidate may not enroll in more than five professional studies courses before he/she has unconditional admission to TEP. A student must be admitted to TEP prior to Block 4.

**NOTE:** Students in this program must complete 4 additional semester hours of natural science (for a total of 12 hours) and additional hours of mathematics (for a total of 12 hours). MATH 100 Intermediate Algebra and MATH 208 Number And Operations may be taken in addition to other MATH-designated mathematics courses. Twelve hours in both English language arts and social science are required.

MUE 107 Basic Skills In Music is also required. Candidates with sufficient skills may attempt credit for MUE 107 via proficiency.

**Types of Jobs Accepted**

Our graduates accept positions as elementary and early childhood teachers and elementary and early childhood special education teachers.

**Jobs of Experienced Alumni**

Cooperating master teachers, curriculum specialists, instructional facilitators, administrators (principals, special education supervisors, directors of special schools).

Learn more about opportunities in this field at the Career Center

**College of Engineering**

Department of Aerospace Engineering and Mechanics (p. 1130)
Department of Chemical and Biological Engineering (p. 1133)
Department of Civil, Construction and Environmental Engineering (p. 1137)
Department of Computer Science (p. 1146)
Department of Electrical and Computer Engineering (p. 1149)
Department of Mechanical Engineering (p. 1153)
Department of Metallurgical and Materials Engineering (p. 1155)

**Degrees and Programs Offered**

The College of Engineering offers undergraduate programs leading to the Bachelor of Science degree in:

- aerospace engineering
- architectural engineering
- chemical engineering
- civil engineering
- computer science
- construction engineering
- electrical engineering
- environmental engineering
- mechanical engineering
- metallurgical engineering

An option in computer engineering is available in the electrical engineering program. An option in software engineering is available in computer science.

The College offers graduate programs leading to the Master of Science degree in:

- aerospace engineering
- chemical engineering
- civil engineering
- computer science
- electrical engineering

- mechanical engineering
- metallurgical engineering
• environmental engineering
• engineering science and mechanics
• mechanical engineering
• metallurgical engineering

The College offers programs leading to the Doctor of Philosophy degree in the fields of:
• aerospace engineering science and mechanics
• chemical engineering
• civil engineering
• computer science
• electrical engineering
• mechanical engineering
• metallurgical engineering

A PhD in the area of materials science is offered in collaboration with The University of Alabama at Birmingham and The University of Alabama in Huntsville. Students should consult The University of Alabama graduate catalog for information concerning the graduate degree programs.

Minors in Engineering for Non-engineering Majors

Two types of minors in the College of Engineering are available to students enrolled in other divisions of the University. The minors require a minimum of 18 hours in engineering courses.

• The Type 1 minor is a specialized program in any of the College’s engineering disciplines. Course requirements and advising are available from the appropriate department head, who will appoint an advisor for a student desiring this type of minor.

• The Type 2 minor is a general minor in engineering that requires a minimum of 18 hours in courses chosen from a list available from the associate dean for academic programs. The associate dean will appoint an advisor for a student pursuing a Type 2 minor.

Freshman Engineering Program

The Freshman Engineering Program at The University of Alabama offers a first-year experience designed to both motivate and engage our students. All engineering majors take a common first-year program with these goals:

• introduce students to the field of engineering
• ensure students have the skill sets necessary to successfully complete second-year engineering courses
• illustrate the relevance of mathematics and science to the field of engineering

If you, as a current or prospective student, have questions about the Freshman Engineering Program at The University of Alabama, please visit eng.ua.edu/fep; call 205-348-0750; or write to Freshman Engineering Program, College of Engineering, 290 Hardaway Hall, The University of Alabama, Box 870285, Tuscaloosa, AL 35487-0285.

Degree Requirements

The requirements specified in this catalog are intended for all students who begin their college careers during or after the fall of 2012. Students who have begun their careers prior to fall 2012 may choose to complete the requirements outlined in this catalog, but if they do so they must complete all of the requirements listed herein. Students may not choose some requirements from this catalog and some from previous catalogs. If a student does not complete requirements for the undergraduate degree within a period of seven years from the date of admission, the College of Engineering will modify the student’s program to bring it into compliance with current degree requirements.

Application for Degree

Each candidate for graduation must submit an application for degree to Engineering Student Services (290 Hardaway Hall). Students who expect to complete degree requirements in May can submit their degree applications beginning on October 1 of the previous year. Those who expect to finish their requirements after the Interim term, summer session or fall semester should submit their applications beginning the in March before the expected graduation. In all cases, an application for degree must be on file in Engineering Student Services no later than the time at which the degree candidate registers for his or her final semester in residence. Students who apply for their degrees after registration for the final semester will not receive their diplomas until the following term.

Graduation Standards

Each student who expects to earn a baccalaureate degree from the College of Engineering must meet the following minimum standards of academic achievement:

• successfully complete all courses specified in the degree program
• complete at least one-half of the work required within the discipline on this campus
• earn at least a C average (2.0 on a 4.0 scale) for all work attempted
• earn at least a C average (2.0 on a 4.0 scale) for all work attempted in his or her professional courses
• meet any additional academic requirements of the program offering the degree

The College of Engineering follows the admission and retention standards set by the University and reserves the right to change policies, procedures, degree requirements, schedules, courses offered, and other standards in light of circumstances that may arise after the publication of this catalog.

Admission as a Freshman Student

A student who meets the criteria for admission to The University of Alabama as a freshman student is eligible for admission to the College of Engineering. Specific information about these criteria is available from The University of Alabama, Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; 205-348-5666 or toll-free 1-800-933-BAMA in the continental United States.

Entering freshmen may enroll in specific degree programs, or they may enroll as undesignated engineering students. Differences in students’ abilities and in the degree of their preparation make it necessary for each student to begin work in chemistry, mathematics and English at the level determined by placement tests offered by the departments of chemistry, English, and mathematics. Grade points earned in preparatory courses are counted in the GPA, but hours earned for such courses may not be applied to the requirements for a degree.

Common Freshman Year

All students in the College of Engineering have a common freshman-year experience. As part of this experience, all students must complete four hours of fundamental engineering courses. These four hours consist of:
Admission as a Transfer Student
A student seeking to transfer into the College of Engineering from another institution is required to have an official transcript sent directly to the UA Office of Undergraduate Admissions from each college or university previously attended. A grade point average of "C" (2.0 on a 4.0 scale) or better for all college-level work attempted is required for admission to the University and to the College. Transferred courses will be applied as appropriate to a student’s degree program. Courses where a grade of "D" was earned will not be applied if the course is a prerequisite to another course required for the student’s degree program. The authority to apply or to deny transferred credit rests with the college.

Transfers from Two-year Colleges
At most, 50 percent of the total number of hours required for an undergraduate degree in the College of Engineering may be taken at two-year colleges and applied toward graduation requirements. All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama.

Transfers from Senior Colleges and Universities
Courses transferred from institutions accredited by ABET will be accepted within the broad limits of the graduation requirements of the College and the University. Students seeking to transfer credit from institutions not accredited by ABET or by a regional or national accrediting agency may be granted transfer credit on a provisional basis. Consult the director of Engineering Student Services or the UA Office of Undergraduate Admissions for more information.

Transfers from Other UA Divisions
Students who have earned fewer than 45 semester hours may transfer to the College of Engineering if they satisfy the University of Alabama Scholastic Progress Standard (see the Academic Records and General Academic Policies (p. 624) section of this catalog). A student who has earned 45 or more semester hours must have a cumulative GPA of at least 2.0 and an average of at least 2.0 (on a 4.0 scale) for a minimum of 12 semester hours at The University of Alabama. Credit that another division of the University previously transferred for transfer from another institution will be reevaluated by the College of Engineering when a student transfers into the College from within the University.

Auditing Courses
Students may register for courses as auditors with the approval of the departments offering the courses. The deadline for registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester. The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. Audited courses do not count toward degree requirements.

Course Substitution
Occasionally, a student may wish to substitute another course for a required course. All such requests should first be presented via written petition to the student’s adviser and department head, who will:

- weigh the merits of course substitution and determine if the content of the proposed course is appropriate as a substitute

Double/Second Majors
Students seeking a double major must complete the Double/Second Major form located in the Office of Engineering Student Services (290 Hardaway Hall). The same academic standards apply to a double/second major as to any other course sequence for a College of Engineering degree. The College of Engineering departmental adviser, as well as the adviser outside the College of Engineering, must approve all courses for the double/second major.

Engineering Alternative to the Statewide General Studies Curriculum
Act 94-202, enacted by the Alabama legislature in 1994, provided equivalency for first- and second-year courses taught by colleges in the state of Alabama. In 1995, engineering educators presented an engineering alternative to the general studies curriculum (GSC) that modified the Act to specific needs of engineering colleges statewide. The engineering alternative was unanimously approved by the statewide Articulation and General Studies Committee in December 1995 and was made a part of GSC. The details of the College of Engineering Core Curriculum/General Education Requirements are listed in the Academic Records and General Academic Policies (p. 624) section of this catalog.

Free Electives
Most college courses may be counted as free electives. Any exceptions for College of Engineering students are the mathematics courses below MATH 125 Calculus I. ROTC credit may be applied with the approval of the student’s adviser and department head.

Mathematics
An entering student must enroll in the mathematics course determined by the student’s score on the mathematics placement test. A grade of C- or higher must be earned in each mathematics course that leads to another course in the sequence, preparing the student to enroll in calculus.

Online Courses
College of Engineering students may enroll in online courses through the College of Continuing Studies. An online course with the same course number as a regularly scheduled on-campus course fulfills the same degree requirements as an on-campus course. Further information about online courses is available through the College of Continuing Studies.

Pass/Fail Option
The pass/fail option cannot be exercised for courses that are to be applied to the requirements of an engineering or computer science degree. For further information about the pass/fail option see the Academic Records and General Academic Policies (p. 624) section of this catalog.

Prerequisites
The College of Engineering requires a grade of at least C- in each course that is a prerequisite to any course needed to meet a student’s degree requirements. If a grade lower than C- is received in a prerequisite course, that course must be repeated. A grade of C- or higher must be earned before the student enrolls in the subsequent course. In such cases, it is the student’s responsibility to make schedule changes through the drop/add process. Changes should be made before the beginning of
the next term, and they must be made before the deadline for adding courses. Failure to make the changes on time will result in administrative withdrawal from the course. A student who is administratively withdrawn from a course after the deadline to add a course may not add another course in replacement.

**Advising**
The College of Engineering Academic Advising Center was established to provide advising support services to students that encourage success, independence and completion of an academic plan that incorporate students’ goals and interests. Students must be advised each semester prior to registering for courses and are assigned an adviser in the College of Engineering by their last name. The Advising Center is located in 290 Hardaway Hall. Additional information is available through the Advising Center website.

**Repeating Courses**
The repetition of courses is governed by the following restrictions:

- In computing the grade point average, a grade of I (Incomplete) is included as hours attempted with zero grade points earned. A student on probation must remove I grades within two weeks of the beginning of classes during his or her next term in residence. Students not on probation must remove "I" grades within four weeks of the beginning of classes during the next term. If the I grade was earned in a required course and is not removed, the course must be repeated.
- A record of original and repeat enrollments appears on the student’s transcript.
- Each enrollment in a course is included in the cumulative hours attempted and in the computation of grade point averages. However, only the final enrollment may count as credit toward the degree.
- Courses completed with grades of A, B or C may not be repeated except on an audit basis.
- Enrollment for credit in a course that is at a lower level than a course the student has already completed for credit with a grade of A, B or C is prohibited. For example, a student with credit for a course that is a prerequisite to another course must repeat the course.

**Transfer Credit, Advanced Placement and Credit by Examination**
The following policies apply to the transfer of credit by entering transfer students, to the transfer of credit that was earned while concurrently enrolled at The University of Alabama, to the transfer of credit earned as a transient student at another institution and to the transfer of credit from other divisions of The University of Alabama.

- In order for credit to be transferred, courses completed at other institutions must be equivalent as nearly as possible to courses taught at The University of Alabama.
- In the College of Engineering, grades of D will not be admissible if the grade was earned in a course that is a prerequisite to another course required for the student’s degree program.
- The maximum amount of credit transferable from two-year institutions is 64 semester hours.

**Transfers from Other University of Alabama Divisions**
Credit that another division of the University previously accepted for transfer from another institution will be reevaluated by the College of Engineering when a student transfers into the College from within the University.

**Undergraduate Students in Graduate Courses**
Undergraduate students may be permitted to enroll in graduate courses if they have senior standing and at least a B average for work attempted at the University of Alabama.

**History and Objectives**
Engineering instruction began at The University of Alabama in 1837. The College of Engineering was organized as a separate division of the University in 1909. As the original engineering college in the state of Alabama, our mission is to:

- provide high-quality undergraduate, graduate, and continuing education in engineering and computer science to prepare our graduates for professional careers, leadership positions, and a lifetime of learning
- conduct high-quality research programs that will assist in the economic development of the state and nation, advance the body of knowledge, and improve the quality of human life
- serve individual practicing engineers and computer scientists; industry, government and educational entities and technical societies through professional expertise, active involvement, and availability of facilities

To accomplish its mission, the College of Engineering offers students an outstanding faculty, accredited engineering and computer science programs, and some of the most advanced facilities in the nation. Numerous research projects offer students opportunities to work with faculty in solving current societal problems and in developing technological resources for the future.

For more information about the College of Engineering and its programs and services, call or write: The University of Alabama, College of Engineering, Box 870200, Tuscaloosa, AL 35487-0200; 205-348-6400; eng.ua.edu.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 100</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 112</td>
<td>Precalculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>Precalculus Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalc Algebra &amp; Trig</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121</td>
<td>Calculus &amp; Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

This policy also prohibits repeating a course for credit if equivalent transfer credit with a grade of Pass has already been awarded.

- Enrollment for credit in a course is not prohibited simply because credit was earned in a higher-numbered course. For example, a student with credit for or Department Approved GES Course may enroll for credit in the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GES 255</td>
<td>Engineering Statistics I</td>
<td>3</td>
</tr>
</tbody>
</table>

If students have questions about the interpretation of this policy, they should consult the associate dean for academic programs or the director of Engineering Student Services prior to enrollment.
Accreditation
The following undergraduate engineering programs in UA’s College of Engineering are accredited by the Engineering Accreditation Commission of ABET:

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Construction Engineering
- Electrical Engineering
- Electrical Engineering – Computer Engineering Option
- Mechanical Engineering
- Metallurgical Engineering

The undergraduate Computer Science program in UA’s College of Engineering is accredited by the Computing Accreditation Commission of ABET.

Faculty
Dean
Charles L. Karr
Associate Dean for Undergraduate and Graduate Programs
Viola L. Acoff
Senior Associate Dean for Administration
Kenneth J. Fridley
Associate Dean for Research and Economic Development
John M. Wiest
Capstone Engineering Society Coordinator
Nancy Holmes
Director of Information Technology and Engineering Services
Lawrence K. Hill
Director of External Affairs and Development
Alllen McClendon
Director of Cooperative Education Program
Naomi C. Powell
Director of Engineering Student Services
Gregory L. Singleton
Manager of Welcome Center
Stephanie Hudson
Events Coordinator
Elizabeth Moore
Communication Specialist Senior
Alana Norris

Department of Aerospace Engineering and Mechanics
The undergraduate curriculum in the Department of Aerospace Engineering and Mechanics leads to a Bachelor of Science in Aerospace Engineering (BSAE) degree and, in addition to an in-depth knowledge of aerospace engineering, the BSAE degree provides a background in the basic sciences, engineering sciences, humanities, applied analysis and design. Graduates with a suitable academic record are also prepared to pursue advanced degrees in aerospace engineering, engineering science and mechanics, other related engineering/technical fields of study and professional areas such as law and medicine.

- Majors
  - Aerospace Engineering (BS) (p. 1132)
  - Aerospace Engineering and Mechanics Honors Program (p. 1131)
- Minors
  - Aerospace Engineering (p. 1133)

Accelerated Masters Program (AMP)
The AEM department’s Accelerated Masters Program allows highly-motivated BSAE students to complete the requirements for both a BS in aerospace engineering and an MS in aerospace engineering and mechanics in a five-year period. A student in the program can earn up to 12 hours of dual-credit towards their BS and MS degrees. Following successful completion of all requirements for their BSAE, students in AMP are awarded their undergraduate degree. Students then continue taking graduate courses until the requirements for the MS degree are met. Students in AMP are classified as undergraduates until they complete all of the requirements for the undergraduate degree. They cannot hold graduate assistantships until they are classified as graduate students. At that time, students become eligible for graduate fellowships and scholarships. To be eligible for a Graduate Council Fellowship, a student must have completed no more than six graduate-level hours when first classified as a graduate student.

Eligibility
Students are normally admitted into AMP at the end of their junior year. To be considered for admission, BSAE students must:

a) have at least a 3.3 GPA
b) have completed 90 hours toward their BSAE degree
c) submit an application to the graduate school including at least two letters of recommendation and a statement of purpose

For more information, contact the AEM Graduate Program Coordinator, Dr. Paul Hubner at 205-348-1617 or phubner@eng.ua.edu (tzeiler@eng.ua.edu).

AEM120 Aerospace Science For Educators
N
Hours 4

Students develop meaningful understanding and use of engineering and science knowledge and critical-thinking skills and come to appreciate engineering and science as part of the daily life of a scientifically literate professional.

Natural Science

AEM121 Introduction to Aerospace Engineering I
Hours 1

To survey aerospace history, discuss pertinent topics and introduce basic concepts that promote an understanding of aerospace engineering and the profession.

Prerequisite(s) with concurrency: MATH 125 and MATH 145

View All Courses
AEM Honors Program

The Department of Aerospace Engineering and Mechanics (AEM) Honors Program is part of the College of Engineering Honors Program (COEHP). It is designed to challenge exceptionally talented students with an enriched educational experience. Students completing the AEM Honors Program will be awarded a certificate and recognized at the Honors Day ceremony in the student’s senior year. Participation in the University Honors Program (UHP) is recommended but not a requirement. It is also possible for a student in the AE Honors Program to participate in the AEM Accelerated Master's Program (AMP); visit aem.eng.ua.edu/undergraduate/scholars-program for more information.

Dr. Semih Olcmen, Undergraduate Program Coordinator
205-348-4003; solcmen@eng.ua.edu
(tzeiler@eng.ua.edu)

Eligibility Requirements

- must be a current UA aerospace engineering student
- must apply to the program
- must have a minimum 3.3 GPA (freshmen and transfer students must have a minimum 3.3 GPA on a 4.0 scale and an ACT score of 28 or SAT score of 1240; students not meeting this requirement may enter the program after they achieve a 3.3 GPA at the University)
- Honors students must maintain a minimum 3.3 GPA to remain in the AE Honors Program

AEM Honors Program Requirements

Eighteen hours of Honors credits are required, with 12 hours minimum that may include either approved AEM graduate or 400-level courses taken as Honors-By-Contract. Three of these 12 hours must be "experience-based."  

1 400-Level AEM courses taken as Honors-By-Contract, require completion of work deemed by the instructor to be more advanced than the usual course content. The Honors agreement must be established before the course begins.
2 The "experience-based" requirement may be met by or AEM 492 Special Problems by arrangement with AEM faculty.

Approved Graduate Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEM 500</td>
<td>Intermediate Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>AEM 508</td>
<td>Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>AEM 513</td>
<td>Compressible Flow</td>
<td>3</td>
</tr>
<tr>
<td>AEM 514</td>
<td>Experimental Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>AEM 520</td>
<td>Computational Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>AEM 528</td>
<td>Space Propulsion</td>
<td>3</td>
</tr>
<tr>
<td>AEM 552</td>
<td>Composite Materials</td>
<td>3</td>
</tr>
<tr>
<td>AEM 570</td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>AEM 574</td>
<td>Structural Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>
Other Honors Classes

A minimum of six additional hours of Honors classes must be taken that may include additional AEM Honors courses, CBH (Computer-Based Honors) classes, or UHP courses. If these six hours are designated UHP courses, the student will be recognized as completing UHP as well as COEHP requirements.

A BSAE degree is generally an entry level requirement for various careers such as design, development, testing and research in both the public and private sectors. This degree would also provide an excellent background for students wishing to attend graduate school in other areas of engineering, sciences, medicine, law or business. The program has successful graduates in all of these areas.

Types of Jobs Accepted

Aerospace Engineer, Aero Thermo Technology, Inc., Huntsville, AL; Structural Design Engineer at Northrop Grumman Aerospace Systems; Engineer at Teledyne Technologies, Huntsville, AL; graduate students at Purdue University, University of Texas-Austin, MIT and University of Alabama.

Jobs of Experienced Alumni

Senior Pre-sales Analyst at Cray Inc.; Director of Aviation and Missile Research, Development and Engineering Center, Huntsville, AL; Systems Engineer (Sr. MTS) at The Aerospace Corp., El Segundo, CA; CEO of Aeronomy, Inc., Atlanta, GA; former Chief Scientist of AFRL.

Learn more about opportunities in this field at the Career Center

Aerospace Engineering, BS

The successful Aerospace Engineering student and professional is skilled in mathematics, physics, and computer programming and usage. He or she is also prepared to be diligent in completing assigned work.

Student Outcomes

The Bachelor of Science in Aerospace Engineering (BSAE) degree program at The University of Alabama can demonstrate that its graduates have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Program Objectives

Graduates of the Bachelor of Science in Aerospace Engineering (BSAE) program are expected within a few years after graduation to have:

1. Established themselves as practicing professionals or pursued advanced study in aerospace engineering (or other professional fields of interest)
2. Demonstrated their ability to work successfully as a member of a professional team and function effectively as responsible professionals
3. Engaged in professional service (professional societies and/or community service)

Aerospace Engineering Curriculum

The College of Engineering enforces a C- or higher requirement for any course that is a pre-requisite for another required course.

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<tr>
<th>Freshman</th>
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<td>AEM 468</td>
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</table>
A student majoring in an engineering program may earn a minor in engineering or in another division of the University. Examples are chemistry, mathematics, and physics, which are offered by the College of Arts and Sciences, and the general business minor offered by the Culverhouse College of Commerce. Required courses and electives needed for an engineering or computer science degree may also count toward the minor. For additional information about minors and the courses required in them, see the appropriate sections of the undergraduate catalog.

Aerospace Engineering for Other Students

Two types of minors in the College of Engineering are available to students enrolled in other divisions of the University. The minors require a minimum of 18 hours in engineering courses. The Type 1 minor is a specialized program in any of the College's engineering disciplines. Course requirements and advising are available from the appropriate department head, who will appoint an advisor for a student desiring this type of minor. The Type 2 minor is a general minor in engineering. The associate dean of engineering appoints an advisor for a student pursuing a Type 2 minor, which requires a minimum of 18 hours in courses chosen from a list available from the associate dean for academic programs.

A Minor in Aerospace Engineering requires the completion of a minimum of 21 hours including the following courses plus the required prerequisites:

<table>
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<tr>
<th>Course Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AEM 250 Mechanics Of Materials I (Prereq: AEM 201, MATH 126)</td>
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</tr>
<tr>
<td>AEM 264 Dynamics (Prereq: AEM 201, MATH 126)</td>
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<tr>
<td>AEM 311 Fluid Mechanics (Prereq: AEM 201, MATH 227)</td>
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Select four of the following courses:

<table>
<thead>
<tr>
<th>Course Requirement</th>
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<tr>
<td>AEM 313 Aerodynamics (Prereq: AEM 264, AEM 311, MATH 238)</td>
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</tr>
<tr>
<td>AEM 341 Aerospace Structures (Prereq: AEM 249, AEM 250)</td>
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<tr>
<td>AEM 349 Applied Numerical Methods (Prereq: AEM 249, MATH 237, MATH 238)</td>
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</tr>
<tr>
<td>AEM 360 Astronautics (Prereq: AEM 311, MATH 238)</td>
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<tr>
<td>AEM 368 Flight Mechanics (Prereq: AEM 249, AEM 264, MATH 237, MATH 238)</td>
<td>3</td>
</tr>
<tr>
<td>AEM 413 Compressible Flow (Prereq: AEM 311, ME 215)</td>
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</table>

**Matlab or C++ is required for these four additional courses. Suitability of a student's background will be determined by the AEM department on a case-by-case basis.**
Problems/CHE 499 Honors Special Problems sequence or other honors courses. These credits may include one-on-one undergraduate research experiences, co-op or internship-for-credit experiences, work/study-abroad-for-credit experiences, and courses designed to be taken for joint undergraduate/graduate credit in the Scholars Program leading to advanced degree study. Five additional hours of honors credit must be taken from courses within the ChBE curriculum, and six further hours of honors credits must be earned from any of the Universitywide honors programs. The chemical engineering honors courses may, in turn, be used to satisfy the requirements in the Universitywide honor program(s) selected. Special recognition for completing these programs is given at the time of graduation.

Eligibility

- Incoming freshmen: ACT of 28 or better or SAT of 1240 or better
- Transfer students: cumulative college GPA of 3.3 or better and 28 ACT/1240 SAT
- Current UA students: cumulative UA GPA of 3.3 or better

Requirements for Recognition as Graduating with ChBE Honors

- Completion of the course requirements for the BS degree in Chemical Engineering
- Maintenance of a 3.3 GPA in all undergraduate coursework
- Completion of 18 hours of honors coursework:
  - 12 hours in the ChBE curriculum:
    - One hour of ChBE honors forum
    - Six hours of ChBE-designated courses
    - Five hours of any courses in the ChBE curriculum
  - Six hours of additional honors courses from within or outside the ChBE curriculum
  - Experiential-based coursework
  - Three hours must be experience-based, such as undergraduate research, co-op for credit, work internship for credit, undergraduate design, or a research experience at another university (REU)
- Examples of honors courses offered in ChBE:
  - Independent research or design projects
  - ChBE electives in polymers, electronic materials, biochemical engineering, tissue engineering, or health and safety
  - Honors co-operative education and internship experiences
  - ChBE Honors Forum (explore advanced topics such as nanotechnology, hydrogen fuel cells, engineered medicine or alternative energy)

CHE125 Introduction To Chemical Engineering

Hours 1

An introduction to the chemical engineering profession, its history and its career-enabling potential. The course contains selected topics, and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical and petroleum industries.

CHE254 Chemical Engineering Calculations

Hours 4

Study of physical and chemical processes and chemical reactions; material and energy balance calculations for single-phase and multiphase systems; simultaneous energy and material balances. Offered fall and spring.

Prerequisite(s): CH 101 or CH 117; and MATH 125 or MATH 145; and CHE 125 or AEM 121 or AEM 131 or CE 121 or ECE 121 or ENGR 111 or ENGR 131 or ME 121 or MTE 121 or EE 121 or CS 121

View All Courses

Faculty

Department Head
Brazel, Christopher S.

Professors
Arnold, David W.
Gupta, Arunava
Turner, C. Heath
Van Zee, John W.
Wiest, John M.

Associate Professors
Bara, Jason E.
Bao, Yuping
Brazel, Christopher S.
Klein, Tonya M.
Ritchie, Stephen M. C.

Adjunct Professors
Lizarazo_Adarme, Jair
Weaver, Mark L.

Senior Lecturer
Kherfan, Sadeddin

Assistant Professors
Huang, Qiang
Jeon, Ju-Won
Kim, Yonghyun John
Peng, Qing
Rao, Shreyas
Summers, Ryan M.
Wujcik, Evan

Emeritus Professors
April, Gary
Carlson, Eric
Clements, William
Lane, Alan
McKinley, Marvin
Chemical Engineering, BSChE

Chemical engineering students have strong interests in math, chemistry, physics, and biology. These subjects are often combined and encountered throughout our curriculum. Overall, chemical engineering students are curious about how and why things work, and they have a desire to invent new ways to improve existing technology.

The BSChE degree is a professional degree that prepares graduates for employment and graduate study in chemical engineering and related fields, as well as entry into professional programs such as medicine, dentistry, law, and business.

Chemical engineers apply economics, chemistry, biology, physics, and mathematics to the design and operation of processes and to the research and development of new materials, processes, and systems. The many and varied issues associated with going from concept to demonstration to operation of processes and equipment all fall within the province of chemical engineering. Chemical engineers are as comfortable with plant operations, research and development projects, synthesis of alternative fuels, energy conservation and conversion, process design, optimization and control, environmental conservation and pollution prevention, as they are with the exciting fundamental studies associated with biotechnology, nanotechnology, electrochemical technology, and other areas yet to be discovered.

The BSChE degree and curriculum place strong emphasis on the basic sciences, but a vital feature remains the high degree of confidence and practical ability gained from laboratory and design courses. Laboratories include equipment needed to study and demonstrate heat, mass, and momentum transfer, material and energy balances; process dynamics and control; chemical reaction systems, and thermodynamics. The laboratory courses cover fundamental principles to reinforce the basic courses within the chemical engineering curriculum, while also containing pilot scale process units and other pieces of equipment that allow students to build, operate, and analyze results collected during their operation. The Chemical and Biological Engineering High Bay Facility provides state-of-the-art visualization equipment for research and instruction in continuous and batch distillation and reaction engineering. Individual faculty member research laboratories give students the opportunity to work one-on-one with faculty in special problems courses.

The Chemical and Biological Engineering Design component of this curriculum includes development of student creativity, use of open-ended problems, development and use of modern design theory and methodology, formulation of design problem statements and specifications, consideration of alternative solutions, feasibility analyses, concurrent engineering design, technical research, and detailed system descriptions. The introduction of realistic constraints, such as economic factors, safety, reliability, aesthetics, ethics and environmental and social impacts, are used to fully develop each design experience.

Program Objectives

Within a few years of graduation, UA chemical engineering graduates will be able to:

- Provide solution strategies for a wide variety of technical applications, including the design and improvement of chemical or biological processes
- Work independently and in teams to solve problems and effectively communicate technical issues and solutions to engineering colleagues, non-technical professionals, and lay persons
- Make decisions that are ethical, safe, and environmentally responsible

Student Outcomes

Student learning outcomes include the following:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Special Features

While the baccalaureate degree curriculum contains many courses designed to sequentially introduce students to methodologies for understanding, defining, and solving a broad array of increasingly complex problems, there are elements in the program that also allow students to investigate exciting and challenging issues that often exist at the intersections where engineering and the sciences meet. Some of the elective and special program options are described below.

Chemical Engineering Curriculum

Elective Courses and Minors

Students can explore other areas of personal interest through six hours of career electives as part of the curriculum. Six hours of credit must be selected to fulfill the career electives requirements of the curriculum. This provides students with an option to add breadth to their degree in preparation for the wide variety of careers that chemical engineers pursue after completing the B.S. degree. A student may also select courses through a chemical engineering elective course, an advanced science elective, a biochemistry elective and an engineering elective. Many of these elective courses can be used as part of obtaining a minor or certificate along with a B.S. degree in chemical engineering.

Undergraduate Research

Many students elect to take special problems (undergraduate research) to gain valuable hands-on experience in laboratory or computational settings with a faculty member in ChBE or related disciplines. These courses may be used to satisfy elective course requirements when they are designed to meet the requirements of those course blocks. Products from this activity often include opportunities for making presentations at local and national meetings, co-authoring technical papers or travel. This kind of activity is particularly helpful to students who wish to pursue an advanced degree in chemical engineering or related fields.
International Opportunities

Study abroad programs enhance the undergraduate experience. While there are many opportunities to participate in international classes, some specific programs for chemical engineering students in recent years have included summer lab (CHE 323) in Denmark or Vienna, and an international exchange with University College Dublin in Ireland. Students should check the engineering website and UA's Study Abroad office for updated opportunities.

Accelerated Masters Program

Administered by the University's Graduate School, this program allows eligible students to prepare for advanced study by enrolling in courses that can concurrently satisfy bachelor of science (B.S.) and master of science (M.S.) degree requirements. Enrollment typically is prior to the start of the junior year. The eligibility requirements may be found in the Special Academic Programs section of this catalog. A PhD accelerated program began in 2015 that allows students to combine their B.S with a PhD in Chemical Engineering.

Dual Chemical Engineering/Chemistry Major

UA's Department of Chemical and Biological Engineering and Department of Chemistry offer a dual major program allowing undergraduate students to obtain a single B.S. degree in chemical engineering with both chemistry and chemical engineering listed as majors. The dual major combines core coursework for both chemical engineering and chemistry majors. Career and advanced science elective slots in the chemical engineering curriculum are satisfied by courses in Chemical Equilibria and Analyses, covering classical methods of quantitative and analysis including a laboratory introduction to spectroscopic and chromatographic methods, and Physical Chemistry with Elementary Physical Chemistry Laboratory, while the biology elective slot is fulfilled with Biochemistry I. In addition, Organic Chemistry Laboratory II and a 400 level chemistry elective course are required for a total of four additional hours beyond the chemical engineering degree requirement. Alternatively, students can pursue double majors, resulting in two degrees. A double major requires a completion of both degree programs (B.S. ChE and B.S. Chemistry, for example), and a minimum of 150 course credits at graduation.

Pre-medical/Pre-dental/Pre-law Options

The baccalaureate degree is a popular study plan for preparation to enter one of the professional programs listed. Acceptance rates for our students are excellent and the preparation that an engineering degree provides makes these tracks desired ones.

C- Pre-Requisite Rule

The College of Engineering and The Department of Chemical and Biological Engineering require a grade of "C-" or better be earned in all courses that are a pre-requisite to CHE classes. If a grade lower than "C-" is received in a course that is a pre-requisite, that course must be repeated and a grade of "C-" or higher must be earned before enrolling in the subsequent course.

Chemical Engineering Curriculum

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<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<td>3 CHE 324</td>
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Total Hours: 123-127

1. EC 110 Principles of Microeconomics is a recommended SB course.
2. Students in Accelerated Masters Program and graduate students may enroll in 500-level courses.
CHE 323 Operations Laboratory can be replaced by taking both academic year labs: CHE 321 Basic CHE Lab and CHE 322 Unit Operations Laboratory.

### Dual BS CHE/CH Degree Curriculum

The College of Engineering enforces a C- or higher requirement for any courses that are a prerequisite for another required course.

#### Freshman

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#### Junior

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<td>CHE 306</td>
<td>3 CHE 354</td>
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<tr>
<td></td>
<td>3 CHE 323</td>
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#### Senior

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<tbody>
<tr>
<td>CHE 481</td>
<td>3 CHE 482</td>
<td>3</td>
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<tr>
<td>CHE 493</td>
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<td>Chemical Engr.</td>
<td>3 CHE 440, 441, or 540 Elective (see advisor)</td>
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<td>1 History (Hi) or Social and Behavioral Sciences (SB) Elective</td>
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</table>

1. EC 110 Principles of Microeconomics is a recommended SB course.
2. Students enrolled in Accelerated Masters Program and graduate students may enroll in 500-level courses.
3. CHE 323 can be replaced by Academic Year Labs CHE 321 and CHE 322.

Students find careers in the following industries: petroleum, plastics, pulp and paper, food, consumer products, biotechnology, fine chemicals, pharmaceuticals, medical, environmental

### Types of Jobs Accepted

Our chemical engineering students are in high demand and find jobs with local industries within the state, as well as with Fortune 500 companies around the globe. Common employers are power companies, engineering design firms, large chemical manufacturers, and petroleum refiners.

### Jobs of Experienced Alumni

Our experienced alumni have become leaders in major industries, consulting firms, the medical field, and academic institutions. We have had alumni obtain positions as faculty at MIT and as CEOs at Fortune 500 companies, and become prominent judges. Many of our alumni stay connected with our department, including service on our Advisory Board.

Learn more about opportunities in this field at the Career Center

### Department of Civil, Construction and Environmental Engineering

Office: 284 Hardaway Hall

Civil, construction, and environmental engineers design and build the local communities in which we all live and work. They also work globally to make positive change in the world. Civil, construction, and environmental engineers are in high demand and make a difference locally and globally from planning the public parks in our own neighborhoods to providing clean and safe drinking water to children in refugee camps a world away, from designing and constructing modern sports stadiums to environmentally cleaning up polluted lakes and streams, and from creating new and efficient public transportation networks to developing smart materials for our next generation of infrastructure.

- **Majors**
  - Architectural Engineering (BS) (p. 1139)
  - Civil Engineering (BS) (p. 1140)
  - Construction Engineering (BS) (p. 1142)
  - Environmental Engineering (BS) (p. 1144)
- **Minors**
  - Architectural Engineering (p. 1140)
• Civil Engineering (p. 1142)
• Construction Engineering (p. 1144)
• Environmental Water and Resources Engineering (p. 1144)
• Structural Engineering (p. 1145)
• Transportation Engineering (p. 1146)
• Certificates
  • Construction Management (p. 1144)
  • Environmental Engineering (p. 1145)

The American Society of Civil Engineers (ASCE) states the following vision for civil, construction, and environmental engineers in the year 2025: Entrusted by society to create a sustainable world and enhance the global quality of life, civil engineers serve competently, collaboratively, and ethically as master:

• planners, designers, constructors, and operators of the built environment
• stewards of the natural environment and its resources
• innovators and integrators of ideas and technology across the public, private, and academic sectors
• managers of risk and uncertainty caused by natural events, accidents, and other threats
• leaders in discussions and decisions shaping public environmental and infrastructure policy

Civil, construction and environmental engineering provides a full breadth of opportunities for those who, for example, dream of designing and constructing structures from roller coasters to skyscrapers, designing new water purification and distribution systems that provide clean and safe drinking water, or creating tomorrow’s safe and sustainable transportation systems to move people and goods efficiently. The department’s comprehensive and flexible set of programs provides students with the knowledge, skills, and attributes necessary to successfully enter the profession and lead exciting, fulfilling careers. Students may choose between two undergraduate majors, the Bachelor of Science in Civil Engineering (BSCE) and the Bachelor of Science in Construction Engineering (BSConE). Additionally, students may elect to supplement their degree with one of the department minors: architectural engineering, civil engineering (for non-civil majors), construction engineering (for non-construction majors), environmental and water resources engineering, structural engineering, and transportation engineering.

Departmental Honors Program

The Department of Civil, Construction, and Environmental Engineering offers an undergraduate honors program for students who seek to be challenged by both independent and team projects, and who wish to receive additional distinction with their undergraduate degrees. This individually tailored program culminates with awarding of a Department Honors Certificate and recognition at the Honors Day Ceremony in the student’s senior year.

Requirements for the Bachelor of Science Degree with Honors

The requirements for the Bachelor of Science in Civil Engineering with honors and the Bachelor of Science in Construction Engineering with honors are as follows:

1. Completion of the course requirements for the BS degree in civil engineering or construction engineering
2. Maintenance of at least a 3.3 GPA in all civil engineering courses, as well as a 3.3 cumulative GPA in all undergraduate coursework
3. Completion of 12 hours of approved civil engineering courses using honors credit by contract. The professor and the honors student enter a contract by which the student agrees to additional work to receive honors credit. The following courses are guaranteed available for honors by contract:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CE 260</td>
<td>Civil &amp; Construction Surveying</td>
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</tr>
<tr>
<td>CE 320</td>
<td>Intro Environmental Engineering</td>
<td>3</td>
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<tr>
<td>CE 366</td>
<td>Introduction to Construction Engine</td>
<td>3</td>
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<tr>
<td>CE 378</td>
<td>Water Resources Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 433</td>
<td>Reinf Concrete Struct I</td>
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</table>

4. While the above courses are available for the Departmental Honors Program, they are not required. Other CE courses are available and can be included as part of the required 12 hours of honors credit by contract. Courses other than those listed above taken for honors credit require instructor and departmental approval. Student should contact the instructor for availability.

5. Completion of an honors undergraduate thesis. Students must work directly with a department faculty member on a problem of common interest. Credit for the thesis work is given through completion of three credit hours of the following course: CE 491 Special Problems. Credit for the honors thesis also is accepted as a CE elective within the civil or construction engineering curriculum.

Students enrolled in the Civil, Construction, and Environmental Engineering Departmental Honors Program are also encouraged to participate in either the University Honors Program or Computer-Based Honors Program.

Students interested in the Civil, Construction, and Environmental Engineering Departmental Honors Program should contact the department office or their academic advisors for further details.

[object Object]

CE121 Intro Civil Constrctn Envir Eg
Hours 1

Introduce the student to the areas of professional, civil and environmental engineering practices with exposure to faculty members specializing in each area, solving typical problems in each professional area, learning of the activities of service organizations, and the responsibilities of professional practice.

CE220 Society Infrastruct & Environm SB

Hours 3

Permitting, environmental impact statements and other environmental issues associated with human activities and engineering projects.

Social and Behavioral Sciences

View All Courses

Faculty

Department Head
Back, W. Edward

Director, Undergraduate Programs
Williamson, Derek G.

Director, Graduate Programs
Graetinger, Andrew
Architectural Engineering, BS

Architectural engineering students are interested in how buildings are designed, how they stand up against the forces of nature, and how they are built and maintained. Students are also concerned with how buildings function as a coordinated set of structural, electrical, communication, and mechanical systems. Architectural engineers are also interested in how these systems support a building’s mission and its occupants’ needs in a sustainable manner. They are creative problem solvers addressing national and international challenges of energy needs, sustainable new and reconditioned building systems, urban development, and community planning.

Program Objectives

The objectives of The University of Alabama Bachelor of Science in Architectural Engineering (BSArchE) program is to graduate students who are in demand by employers and graduate programs and who lead fulfilling professional careers through their abilities to:

- apply foundational knowledge of mathematics, science, humanities, and social sciences in the professional practice of architectural engineering
- synthesize technical knowledge of engineering analysis and design to identify, formulate, and solve architectural engineering problems
- demonstrate the professional practice skills needed to be successful in architectural engineering

Student Outcomes

The BSArchE student-learning outcomes are formulated into three categories:

Foundational Outcomes

1. Solve problems in (1) mathematics through calculus and differential equations; (2) probability and statistics; and (3) at least two areas of natural science.
2. Explain the importance of (1) humanities, literature, and fine arts; and (2) history and social behavior.

Technical Outcomes

1. Analyze and solve problems in engineering mechanics and materials.
2. Select and conduct engineering experiments, and analyze and evaluate the resulting data.
3. Apply relevant knowledge, techniques, skills, and modern engineering tools to identify, formulate, and solve engineering problems, including problems in building structures; building mechanical and electrical systems; and construction engineering and management.
4. Explain the affect of historical and contemporary issues on engineering practice.
5. Develop solutions to well-defined project management problems.
6. Design a system or process in more than one area within the discipline to meet desired needs, including sustainability, and within other realistic constraints such as: environmental, economic, social, political, ethical, health and safety, and constructability.
7. Explain key aspects of at least one traditional or emerging area of advanced specialization within the discipline.

Professional Practice Outcomes

1. Analyze a situation involving multiple conflicting professional, legal, and ethical interests and determine an appropriate course of action.
2. Organize and deliver effective written, verbal, and graphical communications.
3. Demonstrate the ability to learn through independent study, without the aid of formal instruction.
4. Demonstrate attributes supportive of the professional practice of engineering; apply leadership principles to direct the efforts of a small group to solve a relatively constrained problem; and function effectively as a member of a multidisciplinary team to solve open-ended engineering problems.
5. Explain the importance of professional licensure and basic concepts in engineering management, business, law, and globalization.

### Architectural Engineering Curriculum

#### Freshman

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<tr>
<th>Fall</th>
<th>Hours</th>
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<td>ENGR 103</td>
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#### Sophomore

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#### Junior

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<tr>
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<td>CE 366</td>
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<td>AEM 311</td>
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#### Senior

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<th>Spring</th>
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<td><strong>Total</strong></td>
<td>15</td>
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Total Hours: 123

1. Recommendations:
   - CE 220 Society Infrastruct & Environment and EC 110 Principles of Microeconomics as an SB
   - Foreign language as an HU

2. BSC 114 Principles Of Biology I/BSC 115 Laboratory Biology I/ or BSC 118 Honors General Biology I
   - GEO 101 The Dynamic Earth
   - GEO 102 The Earth Through Time
   - GEO 104 Hazardous Earth
   - GEO 105 Sustainable Earth
   - GEO 106 Environmental Geology
   - GEO 107 Environmental Geology

All architectural engineering students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation. A graduate of the program who has passed the FE exam would then be an engineer intern under Model Law as maintained by the National Council of Examiners for Engineering and Surveying (ncees.org). It is recommended that the FE be taken the semester prior to graduation. Related department policies and updates of catalog information are posted on the department website and message boards.

Architectural engineers work in a wide spectrum of careers centered on building systems. Architectural engineering graduates can serve as designers of structural, lighting, HVAC, and building energy systems. They work as construction and constructability experts, urban and city planners, project managers, and green building leaders. They are highly involved in the complicated and creative arena of bringing older, historic, and large office and governmental buildings back into productive use.

Learn more about opportunities in this field at the Career Center

### Civil Engineering, BS

Civil engineering students are interested in how buildings are designed, how they are built, and how they stand up against the forces of nature. They are concerned about the environment and how to provide clean water and improve air quality. They want to be part of the solution for traffic congestion and improve how to move people and goods locally, nationally, and globally. They want to better protect people, their belongings, their homes and businesses from natural disasters and help to create a sustainable and resilient future through creative and technical solutions.
Program Objectives

The objectives of The University of Alabama Bachelor of Science in Civil Engineering (BSCE) program is to graduate students who are in demand by employers and graduate programs and who lead fulfilling professional careers through their abilities to:

- apply foundational knowledge of mathematics, science, humanities, and social sciences in the professional practice of civil engineering
- synthesize technical knowledge of engineering analysis and design to identify, formulate, and solve civil engineering problems
- demonstrate the professional practice skills needed to be successful in civil engineering

Student learning Outcomes

The BSCE student learning outcomes are formulated into three categories:

Foundational Outcomes

1. Solve problems in (1) mathematics through calculus and differential equations; (2) probability and statistics; and (3) at least two areas of natural science
2. Explain the importance of (1) humanities, literature, and fine arts; and (2) history and social behavior

Technical Outcomes

1. Analyze and solve problems in engineering mechanics and materials
2. Select and conduct engineering experiments, and analyze and evaluate the resulting data
3. Apply relevant knowledge, techniques, skills, and modern engineering tools to identify, formulate, and solve engineering problems, including problems in environmental, water resources, transportation, structural, construction, and geotechnical
4. Explain the affect of historical and contemporary issues on engineering practice
5. Develop solutions to well-defined project management problems
6. Design a system or process in more than one area within the discipline to meet desired needs, including sustainability, and within other realistic constraints such as: environmental, economic, social, political, ethical, health and safety, and constructability
7. Explain key aspects of at least one traditional or emerging area of area of advanced specialization within the discipline

Professional Practice Outcomes

1. Analyze a situation involving multiple conflicting professional, legal, and ethical interests, and determine an appropriate course of action
2. Organize and deliver effective written, verbal, and graphic communications
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4. Demonstrate attributes supportive of the professional practice of engineering; apply leadership principles to direct the efforts of a small group to solve a relatively constrained problem; and function effectively as a member of a multidisciplinary team to solve open-ended engineering problems
5. Explain the importance of professional licensure and basic concepts in engineering management, business, law, and globalization

All students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation.

Civil Engineering Curriculum

Senior plan of study electives must be CE courses numbered 400 or above or other approved electives. Other courses may be approved by petition. At least six hours of the senior electives must be designation-designated (D) courses. In addition, not more than two senior electives may be professional practice (P) courses, including any non-civil engineering courses. See the department for a list of approved senior design electives, including approved designation-designated (D), professional practice (P) and general technical (G) electives.

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
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<th>Spring</th>
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<td>MATH 125 or 145</td>
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<th>Hours</th>
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<td>AEM 201</td>
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<td>MATH 227</td>
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<td>GES 255</td>
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<table>
<thead>
<tr>
<th>Junior</th>
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<th>Spring</th>
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<td>CE 350</td>
<td>3 CE 378</td>
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<td>History (HI) or social and behavioral sciences (SB) elective</td>
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<th>Senior</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
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<td>Senior (plan of study) electives</td>
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<tr>
<td>15</td>
<td>16</td>
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</tbody>
</table>

Total Hours: 124

1 A six-hour sequence in either HI/SB or HU/L/FA core classes is required. Students are encouraged to consider EC 110 Principles of Microeconomics as an SB, CE 220 Society Infrastruct & Environment as an SB, and/or a foreign language as an HU.
Approved natural science (N) electives include: CH 102 General Chemistry, BSC 114 Principles Of Biology I /BSC 115 Laboratory Biology I, GEO 101 The Dynamic Earth, GEO 102 The Earth Through Time, GEO 105 Sustainable Earth, GY 101 Atmospheric Proc & Patterns, GY 102 Earth Surface Processes, GY 207 Field Water and Climate.

Senior (plan of study) electives must be CE courses numbered 400 or above or other approved electives. Other courses may be approved by petition. At least six hours of the senior electives must be design-designated (D) courses. In addition, not more than two senior electives may be professional practice (P) courses, including any non-civil engineering courses. See the department list for a list of approved senior design electives, including approved design-designated (D), professional practice (P), and general technical (G) electives.

Related department policies and updates of catalog information are posted on the department website and message boards.

Civil engineering provides a broad spectrum of career opportunities including water resources engineer, structural engineer, transportation engineer, environmental engineer, geotechnical engineer, construction engineer, site or urban planning engineer and architectural engineer. In addition, civil engineering graduates can use their technical knowledge and skills for entry into other professions such as medicine or law.

Types of Jobs Accepted
Graduates are design engineers and field engineers. They work in engineering sales and technical support. From small local firms to large multi-national firms, from specialty consulting to full-service design-build, from industry to government to public service, graduates accept offers from many different types of employers. Many get graduate degrees in civil or environmental engineering or go on to medical or law school.

Jobs of Experienced Alumni
Civil engineers often become community leaders. Understanding the built environment and how to make cities and structures more energy efficient, environmentally friendly and sustainable, alumni are well positioned to lead society in resolving many of the issues important to the future. Graduates often own design firms, move into corporate management, become civic leaders through state and federal public service, become research and development engineers and are entrepreneurs in business development.

Learn more about opportunities in this field at the Career Center

Civil Engineering, Minor
The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the department of civil, construction, and environmental engineering; Room 260, H.M. Comer Hall; 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 320 Intro Environmental Eng</td>
<td>3</td>
</tr>
<tr>
<td>CE 331 Intro to Structural Eng.</td>
<td>3</td>
</tr>
<tr>
<td>CE 340 Geotechnical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CE 350 Intro. to Transportation Eng</td>
<td>3</td>
</tr>
<tr>
<td>CE 366 Introduction to Construction Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Construction Engineering, BS
Construction engineering majors typically like to build things and figure out ways to do so more quickly and with less waste materials. In the field, construction engineers work on different types of building projects, coordinating with team members to create cities and communities where people live and work.

Program Objectives
The objectives of The University of Alabama Bachelor of Science in Construction Engineering (BSConE) program is to graduate students who are in demand by employers and graduate programs and who lead fulfilling professional careers through their abilities to:

- apply foundational knowledge of mathematics, science, humanities, and social sciences in the professional practice of construction engineering
- synthesize technical knowledge of engineering analysis and design to identify, formulate, and solve construction engineering problems
- demonstrate the professional practice skills needed to be successful in construction engineering

Student learning Outcomes
The BSConE student learning outcomes are formulated into three categories:

**Foundational Outcomes**
- Solve problems in (1) mathematics through calculus and differential equations; (2) probability and statistics; and (3) at least two areas of natural science.
- Explain the importance of (1) humanities, literature, and fine arts; and (2) history and social behavior.

**Technical Outcomes**
1. Analyze and solve problems in engineering mechanics and materials
2. Conduct engineering experiments, and analyze and evaluate the resulting data
3. Apply relevant knowledge, techniques, skills, and modern engineering tools to identify, formulate, and solve engineering problems, including problems in – project controls, construction methods, materials, and safety
4. Explain the impact of historical and contemporary issues on engineering practice
5. Develop solutions to well-defined project management problems
6. Design a system or process in more than one area within the discipline to meet desired needs, including sustainability, and within other realistic constraints such as: environmental, economic, social, political, ethical, health and safety, and constructability
7. Explain key aspects of at least one traditional or emerging area of area of advanced specialization within the discipline

**Professional Practice Outcomes**
- Analyze a situation involving multiple conflicting professional, legal, and ethical interests and determine an appropriate course of action
- Organize and deliver effective written, verbal, and graphic communications
- Demonstrate the ability to learn through independent study, without the aid of formal instruction
- Demonstrate attributes supportive of the professional practice of engineering; apply leadership principles to direct the efforts of a small group to solve a relatively constrained problem; and function effectively as a member of a multidisciplinary team to solve open-ended engineering problems
- Explain the importance of professional licensure and basic concepts in engineering management, business, law, and globalization

All students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation.

### Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 121</td>
<td>1 ENGR 171</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 103</td>
<td>3 MATH 126 or 146</td>
<td>4</td>
</tr>
<tr>
<td>MATH 125 or 145</td>
<td>4 PH 105 or 125</td>
<td>4</td>
</tr>
<tr>
<td>EN 101</td>
<td>3 EN 102</td>
<td>3</td>
</tr>
<tr>
<td>CH 101 or 117</td>
<td>4 History (HI) or social and behavioral sciences (SB) elective</td>
<td></td>
</tr>
</tbody>
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### Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 260</td>
<td>2 CE 252</td>
<td>3</td>
</tr>
<tr>
<td>AEM 201</td>
<td>3 AEM 250</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227</td>
<td>4 AEM 264</td>
<td>3</td>
</tr>
<tr>
<td>Approved natural science (N) elective</td>
<td>4 MATH 238</td>
<td>3</td>
</tr>
<tr>
<td>GES 255</td>
<td>3 PH 106 or 126</td>
<td>4</td>
</tr>
</tbody>
</table>

16 16

### Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 366</td>
<td>3 CE 463</td>
<td>3</td>
</tr>
<tr>
<td>CE 340</td>
<td>4 CE 462</td>
<td>3</td>
</tr>
<tr>
<td>CE 331</td>
<td>3 CE 418</td>
<td>3</td>
</tr>
<tr>
<td>Engineering systems elective</td>
<td>3 Engineering systems elective</td>
<td>3</td>
</tr>
<tr>
<td>History (HI) or social and behavioral sciences (SB) elective</td>
<td>3 History (HI) or social and behavioral sciences (SB) elective</td>
<td></td>
</tr>
</tbody>
</table>

16 16

### Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 468</td>
<td>3 CE 464</td>
<td>3</td>
</tr>
<tr>
<td>CE 461</td>
<td>3 CE 401 or 403</td>
<td>4</td>
</tr>
<tr>
<td>Senior (plan of study) elective</td>
<td>3 Senior (plan of study) electives</td>
<td>6</td>
</tr>
<tr>
<td>COM 123 or 124</td>
<td>3 Humanities (H), literature (L), or fine arts (FA) elective</td>
<td></td>
</tr>
</tbody>
</table>

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1. Approved natural science (N) electives include: BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, GEO 101 The Dynamic Earth, ECE 320 Fundmtl Electrical Engr, ME 216 Thermal Engineering Survey, AEM 311 Fluid Mechanics, GEY 102 Earth Surface Processes, and GEY 207 Field Water and Climate.

2. A six-hour sequence in either HI/SB or HU/L/FA core classes is required. Students are encouraged to consider EC 110 Principles of Microeconomics as an SB, CE 220 Society Infrastruct & Environm as an SB, and/or a foreign language as an HU.

3. Students must complete six hours of systems electives chosen from: ECE 320 Fundmtl Electrical Engr, ME 216 Thermal Engineering Survey and AEM 311 Fluid Mechanics.

4. Please see an adviser prior to enrolling. Co-op experience may be substituted with prior approval. See an adviser for additional information.

5. Senior (plan of study) electives must include at least one course in project management (PM) and at least one course in design (CD); one course may be a general technical elective (GT). See the department for a list of approved electives including approved project management (PM), design (CD) and general technical (GT) electives.

Related department policies and updates of catalog information are posted on the department website and message boards.

Construction engineers pursue careers in the public sector, managing projects that benefit society, working on highways, mass transit systems, dams, bridges, and infrastructure. Careers are also available with private sector engineering design and construction firms that manage commercial and industrial projects for clients throughout the world. Construction engineering careers frequently serve as a gateway to executive leadership positions or self-employment. Construction engineers lead and inspire people and effectively manage large budgets and challenging schedules.

### Types of Jobs Accepted

Construction engineering graduates often begin their careers with field-based assignments. Many serve as assistant project managers on construction sites. They may assist in the management of a project's cost and schedule or serve in a variety of engineering functions. Other graduates go directly to positions with major industrial firms serving as corporate client representatives on major projects. Still others find career opportunities with state and federal agencies helping plan and oversee major public sector projects.

### Jobs of Experienced Alumni

Experienced construction engineers plan and execute major projects and frequently are directly accountable for overall safety, cost, and schedule performance. Many manage million and billion dollar projects with schedules extending over many years. Most construction engineers have organizational management responsibilities for the corporations or
Construction Engineering, Minor

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering; Room 260, H.M. Comer Hall; 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

Construction Management, Certificate

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering; Room 260, H.M. Comer Hall; 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

Environmental and Water Resources Engineering, Minor

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering; Room 260, H.M. Comer Hall; 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

Environmental Engineering, BS

Environmental engineers are interested in how natural and managed systems respond to physical, chemical and biological process in order to reduce the impact of industrialized society on human health and the environment. Environmental engineers engage in developing next generation integrated waste management systems, integrated water reuse and sustainable cities.

Program Objectives

The objectives of The University of Alabama bachelor of science in environmental engineering (BSEnvE) program is to graduate students who are in demand by employers and graduate programs and who lead fulfilling professional careers through their abilities to:

1. apply foundational knowledge of mathematics, science, humanities and social sciences in the professional practice of environmental engineering
2. synthesize technical knowledge of engineering analysis and design to identify, formulate and solve environmental engineering problems
3. demonstrate the professional practice skills needed to be successful in environmental engineering

Student learning Outcomes

The BSEnvE student learning outcomes are formulated into three categories:

Foundational Outcomes

1. Solve problems in (1) mathematics through calculus and differential equations; (2) probability and statistics; and (3) at least two areas of natural science.
2. Explain the importance of (1) humanities, literature and fine arts; and (2) history and social behavior.

Technical Outcomes

1. Analyze and solve problems in engineering mechanics and materials.
2. Select and conduct engineering experiments, and analyze and evaluate the resulting data.
3. Apply relevant knowledge, techniques, skills, and modern engineering tools to identify, formulate, and solve engineering problems, including problems in – air, land, and water systems, and associated environmental health impacts
4. Explain the impact of historical and contemporary issues on engineering practice.
5. Develop solutions to well-defined project management problems.
6. Design a system or process in more than one area within the discipline to meet desired needs, including sustainability, and within other realistic constraints such as: environmental, economic, social, political, ethical, health and safety, and constructability.
7. Explain key aspects of at least one traditional or emerging area of area of advanced specialization within the discipline.

**Professional Practice Outcomes**

1. Analyze a situation involving multiple conflicting professional, legal, and ethical interests, and determine an appropriate course of action.
2. Organize and deliver effective written, verbal, and graphical communications.
3. Demonstrate the ability to learn through independent study, without the aid of formal instruction.
4. Demonstrate attributes supportive of the professional practice of engineering; apply leadership principles to direct the efforts of a small group to solve a relatively constrained problem; and function effectively as a member of a multidisciplinary team to solve open-ended engineering problems.
5. Explain the importance of professional licensure and basic concepts in engineering management, business, law, and globalization.

**Environmental Engineering Curriculum**

**Freshman**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 121</td>
<td>1 ENGR 171</td>
<td>1</td>
</tr>
<tr>
<td>MATH 125 or 145</td>
<td>4 MATH 126 or 146</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 103</td>
<td>3 PH 105 or 125</td>
<td>4</td>
</tr>
<tr>
<td>EN 101</td>
<td>3 EN 102</td>
<td>3</td>
</tr>
<tr>
<td>CH 101 or 117</td>
<td>4 History (HI) or social and behavioral sciences (SB) elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 260</td>
<td>2 CE 262</td>
<td>3</td>
</tr>
<tr>
<td>AEM 201</td>
<td>3 AEM 250</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227</td>
<td>4 AEM 264</td>
<td>3</td>
</tr>
<tr>
<td>GES 255</td>
<td>3 MATH 238</td>
<td>3</td>
</tr>
<tr>
<td>Approved natural science (N) elective</td>
<td>4 CH 102 or 118</td>
<td>4</td>
</tr>
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</table>

**Junior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 320 &amp; BSC 114</td>
<td>3 CE 340</td>
<td>4</td>
</tr>
<tr>
<td>AEM 311</td>
<td>3 CE 425</td>
<td>3</td>
</tr>
<tr>
<td>COM 123 or 124</td>
<td>3 ME 216</td>
<td>3</td>
</tr>
<tr>
<td>History (HI) or social and behavioral sciences (SB) elective</td>
<td>3 History (HI) or social and behavioral sciences (SB) elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior (plan of study) elective</td>
<td>3 CE 401 or 403</td>
<td>4</td>
</tr>
<tr>
<td>Senior (plan of study) elective</td>
<td>3 Senior (plan of study) elective</td>
<td>3</td>
</tr>
</tbody>
</table>

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All environmental engineering students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation. A graduate of the program who has passed the FE exam would then be an Engineer Intern under Model Law as maintained by the National Council of Examiners for Engineering and Surveying (ncees.org). It is recommended that the FE be taken the semester prior to graduation. Related department policies and updates of catalog information are posted on the department website and message boards.

Environmental engineering provides a spectrum of career opportunities with consulting firms, public utilities, state and federal governments and industry. In addition, environmental engineering graduates can use their technical knowledge and skills for entry into other professions such as medicine, law, public and industrial health and natural resource management.

Learn more about opportunities in this field at the Career Center.

**Environmental Engineering, Certificate**

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering; Room 260, H.M. Comer Hall; 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

Environmental engineering students may earn the certificate in environmental engineering in addition to their bachelor of science (BS) degree. Students must complete 12 hours of environmental engineering courses from an approved list. Many of these courses are commonly acceptable for credit toward the BS degree; however, of the 12 hours, at least six must be in addition to the BS degree requirements. Please see an adviser for a list of approved environmental engineering certificate courses. Other courses may be approved by petition.

**Structural Engineering, Minor**

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering; Room 260, H.M. Comer Hall; 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.
Transportation Engineering, Minor

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering; Room 260, H.M. Comer Hall, 205-348-6550. Related department policies and updates of catalog information are posted on the department website and message boards.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 350 Intro to Transportation Eng</td>
<td>3</td>
</tr>
<tr>
<td>CE 458 Traffic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td>Select a minimum of nine credit hours, which must be approved senior (400-level) electives</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

Department of Computer Science

Computer science is a multifaceted discipline that encompasses a broad range of topics. At one end of the spectrum, computer science focuses on the theoretical capabilities of computers and on the properties of various general problems and algorithms. At the other applications-oriented end of the spectrum, computer science deals with techniques for the design and construction of machines and with advanced applications of computers in all aspects of our society. Graduates of the program will be prepared for admission to graduate study or for immediate employment in business, industry, or government positions involving computer systems and techniques.

- Major
  - Computer Science (BS) (p. 1147)
- Minors
  - Computer Science (p. 1148)
  - Computing Technology and Applications (p. 1149)
Computing touches everyone’s daily lives – the results of computer scientists can be found not only in video games, smartphones and the latest animated movie, but can also be found in automobiles, airplanes, and commonly used appliances such as microwaves, televisions, and most other electronic devices. Through studying computer science, students develop and extend logical thinking and problem-solving skills useful in many career roles. Graduates in computer science will be prepared for admission to graduate study or for immediate employment in business, industry, or government positions involving computer systems and techniques.

Program Objectives
The mission of the Department of Computer Science is to provide a broad-based, high-quality education in computer science. Our program will provide its graduates with a body of knowledge and an attitude toward learning that allows them to contribute to the profession and, ultimately, to society. In order to accomplish this, we must provide an academic experience sufficiently rich in both theory and practice to ensure the development of fundamentally sound, skilled graduates.

For our B.S. degree program in computer science, the following educational objectives describe what graduates are expected to attain within a few years following graduation:

- Successfully engage in professional practice in the computing sciences or apply computer science tools to another field of interest.
- Pursue advanced study in the computing sciences.
- Behave in a professional and ethical manner.
- Communicate effectively both orally and in writing.
- Work successfully in both independent and team environments.

In addition, the following set of student outcomes describes what students are expected to know and do by graduation:

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

Students may substitute CS 499 Undergraduate Thesis Research for the capstone project course upon adviser approval.

**Freshman**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 101</td>
<td>3</td>
<td>EN 102</td>
<td>3</td>
</tr>
<tr>
<td>CS 100 (Computer Science I)</td>
<td>4</td>
<td>CS 101 (CS II for Majors)</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 111 or CS 121</td>
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<td>ENGR 103</td>
<td>3</td>
</tr>
<tr>
<td>MATH 125</td>
<td>4</td>
<td>MATH 126</td>
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<tr>
<td>HI/SB elective</td>
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<td></td>
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**Sophomore**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 200 (Software Design and Engineering)</td>
<td>4</td>
<td>CS 201 (Data Structures &amp; Algorithms)</td>
<td>4</td>
</tr>
<tr>
<td>ECE 380</td>
<td>4</td>
<td>ECE 383</td>
<td>4</td>
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<tr>
<td>MATH 301</td>
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<td>MATH 302</td>
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</tr>
<tr>
<td>HU/L/FA elective</td>
<td>3</td>
<td>Approved Nat Science (N) Elective</td>
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</tbody>
</table>

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**Junior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CS 403</td>
<td>3</td>
<td>CS 426</td>
<td>3</td>
</tr>
<tr>
<td>CS 475</td>
<td>3</td>
<td>CS 457</td>
<td>3</td>
</tr>
<tr>
<td>GES 255 or ST 450</td>
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<td>MATH 237</td>
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<tr>
<td>HI/SB Elective</td>
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<td>Complete the sequence of</td>
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<tr>
<td></td>
<td></td>
<td>HI/SB or HU/L/FA electives</td>
<td></td>
</tr>
<tr>
<td>Free elective</td>
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<td></td>
<td></td>
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**Senior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science elective, 400 level</td>
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<td>CS 495</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science elective, 400 level</td>
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<td>Approved natural science (N) elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(must complete a sequence when paired</td>
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<tr>
<td></td>
<td></td>
<td>with either of the two N</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>electives previously chosen)</td>
<td></td>
</tr>
<tr>
<td>Approved Natural Science (N) elective</td>
<td>4</td>
<td>Free electives</td>
<td>8</td>
</tr>
<tr>
<td>HU/L/FA or HI/SB elective to complete 3rd</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>category.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16  15

Total Hours: 120

1 Students must complete a sequence of two of the HU/L/FA or HI/SB elective courses from the same department.

2 Free electives may be chosen from any course offered at UA, with the exception of CS 102 Microcomputer Applications and mathematics courses lower than MATH 125 Calculus I.
Approved Natural Science Electives

Approved Natural Science (N) electives must be chosen from majors courses. Potential courses include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY 101</td>
<td>Intro To Astronomy (Must take AY 102 to complete the N credit)</td>
<td>3</td>
</tr>
<tr>
<td>AY 102</td>
<td>Intro Astronomy Lab (Must take AY 101 to complete the N credit)</td>
<td>1</td>
</tr>
<tr>
<td>AY 203</td>
<td>Observational Astronomy (Must take AY 204 to complete the N credit)</td>
<td>2</td>
</tr>
<tr>
<td>AY 204</td>
<td>Solar System Astronomy (Must take AY 204 to complete the N credit)</td>
<td>3</td>
</tr>
<tr>
<td>BSC 114</td>
<td>Principles Of Biology I (Must take BSC 115)</td>
<td>3</td>
</tr>
<tr>
<td>BSC 115</td>
<td>Laboratory Biology I</td>
<td>1</td>
</tr>
<tr>
<td>BSC 116</td>
<td>Principles Biology II (Must take BSC 117)</td>
<td>3</td>
</tr>
<tr>
<td>BSC 117</td>
<td>Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CH 101 or CH 117</td>
<td>General Chemistry or Honors General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 102 or CH 118</td>
<td>General Chemistry or Honors General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>GEO 101</td>
<td>The Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEO 102</td>
<td>The Earth Through Time</td>
<td>4</td>
</tr>
<tr>
<td>GEO 105</td>
<td>Sustainable Earth</td>
<td>4</td>
</tr>
<tr>
<td>GY 101</td>
<td>Atmospheric Proc &amp; Patterns</td>
<td>4</td>
</tr>
<tr>
<td>GY 102</td>
<td>Earth Surface Processes</td>
<td>4</td>
</tr>
<tr>
<td>PH 101</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 102</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 105 or PH 125</td>
<td>General Physics W/Calc I or Honors Gen Ph W/Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PH 106 or PH 126</td>
<td>General Physics W/Calc II or Honors Gen Ph W/Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>61</td>
</tr>
</tbody>
</table>

Minors for Computer Science Majors

A minor is not required for students majoring in computer science. However, we strongly encourage all students to combine their individual interests with the free electives in the program to complete a minor in an area of interest to them. For example, computer science majors may earn a minor in mathematics by completing the mathematics courses required by the computer science curriculum plus MATH 227 Calculus III and one additional math course numbered 300 or above, such as MATH 355 Theory Of Probability.

Concentration in Software Engineering

In addition to the standard Bachelor of Science in Computer Science degree, the department offers a concentration in software engineering. This concentration will give students a deeper understanding of software engineering, a sub-discipline of computer science. This concentration requires 12 hours of 400 level software engineering classes, chosen from the list below. Students who successfully complete this concentration will have the designation indicated on their transcripts.

Select 12 hours (4 courses) from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 407</td>
<td>Software Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>CS 415</td>
<td>Software Design &amp; Development</td>
<td>3</td>
</tr>
</tbody>
</table>

CS 416 Testing and Quality Assurance 3
CS 417 Requirements Engineering 3
CS 420 Software Mainten. & Evolution 3
CS 428 Computer Security 3
CS 491 Special Topics 3

The coursework required for the software engineering concentration is the same as what is shown above for the computer science degree. The six hours of 400-level CS electives and six of the free elective hours must be approved software engineering electives. The current list of approved software engineering electives can be found on the Department of Computer Science’s website.

This concentration does not require the student to take more than the 120 hours required for the B.S. degree, since six of these course hours replace six hours of CS electives, and the other six hours can be taken from the free electives in the B.S in CS curriculum.

Students with a computer science degree may work in a traditional software company such as Google, Microsoft or IBM or in many industries driven by automation needs.

Types of Jobs Accepted

Our students primarily are employed in the computer industry as software developers, software engineers and security and program analysts. Recent graduates are employed at places such as Amazon, Google, Intergraph, IBM, ADTRAN, Southern Company, AT&T and Walmart.

Jobs of Experienced Alumni

Our students advance to positions such as owner of their own company, software designer, network engineer and IT/IS supervisory roles. These jobs involve the direction and management of large-scale software development projects and their deployment.

Learn more about opportunities in this field at the Career Center

Computer Science, Minor

Admission into the Minor

If students want or need a minor, they are expected to formally declare a minor. With the assistance of an advisor, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 121</td>
<td>The Discipline of Computing</td>
</tr>
<tr>
<td>CS 100</td>
<td>CS I for Majors (CS I)</td>
</tr>
<tr>
<td>CS 101</td>
<td>CS II for Majors (CS II for Majors)</td>
</tr>
<tr>
<td>CS 200</td>
<td>Software Design and Engineering (Software Design &amp; Engineering)</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>CS 201</td>
<td>Data Structures and Algorithms (Data Structures &amp; Algorithms)</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

Ancillary Courses

<table>
<thead>
<tr>
<th>Ancillary Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 302</td>
<td>Topics in Discrete Mathematics</td>
</tr>
<tr>
<td><strong>Credit Hours Subtotal:</strong></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>
Grade Point Average
A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Upper-level Residency
For A&S majors, a minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser for the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Computing Technology and Applications, Minor

Admission into the Minor
Students are expected to formally declare a minor. With the assistance of an advisor in the minor department, students should complete the Declaration of Minor form before or during the third year of full-time enrollment.

The minor in computing technology and applications (offered by the department of computer science) is primarily designed for students who are seeking to become computer literate in today’s rapidly advancing technology. This minor requires 18 hours of CS courses that are specifically designed for non-majors.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 102 Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following sequences:</td>
<td>6</td>
</tr>
<tr>
<td>CS 202 Intro to the Internet</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CS 205 Web Site Design</td>
<td>3</td>
</tr>
<tr>
<td>CS 285 Microcomputer Appl II</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CS 385 Prototyping In Visual Environm</td>
<td>3</td>
</tr>
<tr>
<td>CS 302 Computerized Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CS 305 Adv. Comp. Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 340 Legal &amp; Ethical Issues in Comp</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CS 345 Adv. Legal &amp; Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>Select nine hours of additional courses offered by the Computer Science Department. Most students select nine hours of the following:</td>
<td>9</td>
</tr>
<tr>
<td>CS 202 Intro to the Internet</td>
<td>3</td>
</tr>
<tr>
<td>CS 205 Web Site Design</td>
<td>3</td>
</tr>
<tr>
<td>CS 285 Microcomputer Appl II</td>
<td>3</td>
</tr>
<tr>
<td>CS 302 Computerized Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 305 Adv. Comp. Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 340 Legal &amp; Ethical Issues in Comp</td>
<td>3</td>
</tr>
<tr>
<td>CS 345 Adv. Legal &amp; Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>CS 385 Prototyping In Visual Environm</td>
<td>3</td>
</tr>
<tr>
<td>CS 391 Special Topics</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Hours 18

1 CS 391 Special Topics courses will count towards the 18 hours for this minor. However, they do not carry a C-designation and thus cannot be used towards your Core Curriculum requirements.

The following courses all carry a C-designation and thus can be used towards the completion of your Core Curriculum requirements:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 202 Intro to the Internet</td>
</tr>
<tr>
<td>CS 205 Web Site Design</td>
</tr>
<tr>
<td>CS 285 Microcomputer Appl II</td>
</tr>
<tr>
<td>CS 302 Computerized Database Systems</td>
</tr>
<tr>
<td>CS 305 Adv. Comp. Database Systems</td>
</tr>
<tr>
<td>CS 340 Legal &amp; Ethical Issues in Comp</td>
</tr>
<tr>
<td>CS 345 Adv. Legal &amp; Ethical Issues</td>
</tr>
<tr>
<td>CS 385 Prototyping In Visual Environm</td>
</tr>
</tbody>
</table>

Students who pass the CS 102 Microcomputer Applications placement test must still complete 18 hours of CS coursework.

For students in the College of Arts and Sciences, at least two of your CS courses must be 300 level or higher.

Grade Point Average
A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Upper-level Residency
For students in the College of Arts &Sciences, a minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Electrical engineering, the largest of the engineering fields, is the application of mathematics, sciences, and electrical and electronic technologies to the needs of society. This broad and diverse discipline touches almost every aspect of people’s lives and occupations, from communication systems such as cellular phones, radio, television, and the internet to computer systems, including personal computers and the hidden processors that control automobiles and household appliances.

The Department of Electrical and Computer Engineering at The University of Alabama offers programs in traditional electrical engineering and in computer engineering. Electrical engineering students get deeply involved in technical areas, including communication systems, computers, control systems, electromagnetics, electronics and microelectronics, power systems, and signal processing. Students in the computer engineering option specialize in the software and
hardware components of modern computing systems. The programs provide a sound foundation for entry into the engineering profession, and opportunities for graduates are extensive, often depending only on the interests of the individual. Graduates work in most industries, including the computer, telecommunications, power, aerospace, manufacturing, defense, and electronics industries. They design high-tech devices ranging from tiny microelectronic chips to powerful computers that use those chips, to efficient telecommunication systems that interconnect those computers. They design and operate a wide array of complex technological systems, such as power generation and distribution systems and modern computer-controlled manufacturing plants. They are also involved in sales, marketing, testing, quality control, and research. With additional training, they may even contribute in other professions, including education, medicine, and law.

• Major
  • Electrical Engineering (BS) (p. 1150)

• Minor
  • Electrical Engineering (p. 1153)

ECE225 Electric Circuits
Hours 4
Physical concepts and mathematical techniques of circuit analysis; DC, transient, and sinusoidal steady-state analysis of circuits; Includes laboratory experiments.
Prerequisite(s): PH 106 and PH 126, MATH 227 and MATH 238

Electrical Engineering, BS

Students who are interested in math and physics are often well-suited for study in electrical and computer engineering. Many ECE students have interests in computing and in hands-on projects with electrical and electronic devices such as household wiring, audiovisual equipment, automobiles, electric motors, and much more. Students develop critical-thinking and problem-solving skills throughout their studies. In addition, they develop their ability to apply their knowledge of mathematics, science, and general engineering to attack technical issues associated with electro-technology.

Program Educational Objectives and Program Outcomes
The mission of the undergraduate electrical engineering and computer engineering programs is to provide high-quality and broad-based education in electrical engineering or computer engineering that emphasizes critical thinking and communication skills while preparing graduates for professional careers and lifelong learning. The faculty has adopted the educational objectives listed below for the electrical and computer engineering undergraduate programs. The department has included a process to provide continual improvement of the curricula. Graduates will:

Associate Professors
Abu Qahouq, Jaber
Kim, Seongsin
Kotru, Sushma
Kung, Patrick
Li, Dawen
Li, Shuhui
Ricks, Kenneth

Assistant Professors
Brovont, Aaron
Cakareski, Jakov
Freeborn, Todd
Gomez-Garcia, Daniel
Gurbuz, Ali
Gurbuz, Sevgi
Jeong, Nathan
Kisacikoglu, Mithat
Lemmon, Andrew
Song, Aijun
Taylor, Andrew
Yan, Stephen

Adjunct Professor
Gupta, Su

Professor emeritus
Jackson, Jeff

Associate professors emeriti
Scharstein, Robert

Faculty
Department Head
Haskew, Tim

Assistant Department Head
Ricks, Kenneth

Alabama Power Endowed Professor
Burkett, Susan

Cudworth Professor of Electrical and Computer Engineering and Aerospace Engineering and Mechanics
Gogineni, Prasad

E.A. Larry Drummond Endowed Chair of Computer Engineering
Hong, Yang-Ki

Professors
Balasubramanian, Bharat
Haskew, Tim
Hu, Fei
Sazonov, Edward
Suzuki, Takao
• excel in engineering careers and/or postgraduate education using knowledge of electrical or computer engineering disciplines and underlying fundamental principles of science and mathematics, engineering analysis, problem solving, and design
• expand their knowledge of current and emerging issues in electrical and computer engineering and continue career-long professional development through engagement in lifelong learning
• grow professionally and advance throughout their engineering careers using skills in effective communication; responsible, multidisciplinary teamwork; and adherence to principles of professional accountability and ethics

To facilitate attainment of these career-long objectives, the department has defined a set of program outcomes and associated assessments to demonstrate that, by graduation, students have:
• an ability to apply the necessary knowledge of mathematics, science, and engineering to analyze and design electrical and electronic devices, as well as software and systems containing hardware and software components, as appropriate to program objectives
• an ability to design and conduct experiments, as well as analyze and interpret data
• an ability to design a system, component, or process to meet desired needs
• an ability to function on multidisciplinary teams
• an ability to identify, formulate, and solve engineering problems
• an understanding of professional and ethical behavior
• an ability to communicate effectively in oral, written, and graphical formats
• the broad education necessary to understand the impact of electrical or computer engineering solutions in a global, societal, and environmental context consistent with the principles of sustainable development
• a recognition for the need for and an ability to engage in lifelong learning
• a knowledge of contemporary issues
• an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
• knowledge of probability and statistics, specifically applied to problems in electrical or computer engineering
• for electrical engineering graduates, knowledge of advanced mathematics, typically including differential equations, linear algebra, complex variables, and discrete mathematics; for graduates with the computer engineering option, knowledge of discrete mathematics

The information contained here describes the undergraduate curricula in electrical engineering and computer engineering. Graduate students and students participating in the Scholars Program should consult the graduate catalog for information on all cross-listed and graduate-only courses. More information about various programs within the department is available in the electrical and computer engineering office.

The overall goal of the electrical engineering program is to prepare students for engineering careers within the discipline. The first year and a half of the electrical engineering curriculum includes basic courses in mathematics and physical science, broadening courses in humanities and social science and foundation courses in engineering. The next three semesters provide the core education in electrical engineering, with courses in computers, electronics, circuits, systems and electromagnetics. The last year of study includes technical electives to allow students to concentrate in selected areas of the discipline.

For seniors, the department offers advanced courses in computers, communication, control, electromagnetics, microelectronics, materials and power.

Students must select two electrical engineering electives with labs. The elective areas are computers, microelectronics, electromagnetics, power systems, communication systems and control systems. Materials that describe each area are available in the electrical and computer engineering office.

### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101</td>
<td>4</td>
<td>PH 105</td>
</tr>
<tr>
<td>MATH 125</td>
<td>4</td>
<td>MATH 126</td>
</tr>
<tr>
<td>ENGR 111 or ECE 121</td>
<td>1</td>
<td>ENGR 103</td>
</tr>
<tr>
<td>EN 101</td>
<td>3</td>
<td>EN 102</td>
</tr>
<tr>
<td>Humanities (HU), literature (L), or fine arts (FA) elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>15</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 106</td>
<td>4</td>
<td>PH 253</td>
</tr>
<tr>
<td>MATH 227</td>
<td>4</td>
<td>MATH 237</td>
</tr>
<tr>
<td>MATH 238</td>
<td>3</td>
<td>ECE 225</td>
</tr>
<tr>
<td>CS 100</td>
<td>4</td>
<td>ECE 380</td>
</tr>
<tr>
<td>Humanities (HU), literature (L), or fine arts (FA) elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>15</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 355</td>
<td>3</td>
<td>ECE 326</td>
</tr>
<tr>
<td>ECE 370</td>
<td>3</td>
<td>ECE 350</td>
</tr>
<tr>
<td>ECE 332</td>
<td>4</td>
<td>ECE 333</td>
</tr>
<tr>
<td>ECE 383</td>
<td>4</td>
<td>History (HI) or social and behavioral sciences (SB) elective</td>
</tr>
<tr>
<td>Humanities (HU), literature (L), or fine arts (FA) elective</td>
<td>3</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PH 301</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OR ECE 330</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OR ECE 455</td>
</tr>
<tr>
<td></td>
<td><strong>17</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 340</td>
<td>4</td>
<td>ECE or Professional elective</td>
</tr>
<tr>
<td>Restricted Area Elective</td>
<td>3</td>
<td>ECE elective</td>
</tr>
<tr>
<td>ECE 492</td>
<td>2</td>
<td>ECE 494</td>
</tr>
<tr>
<td>ECE elective with laboratory</td>
<td>4</td>
<td>ECE elective with laboratory</td>
</tr>
<tr>
<td>History (HI) or social and behavioral sciences (SB) elective</td>
<td>3</td>
<td>History (HI) or social and behavioral sciences (SB) elective</td>
</tr>
<tr>
<td></td>
<td><strong>16</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Total Hours: 126
The computer engineering option includes a broad spectrum of electrical engineering and computer science courses, as well as electives to allow the student to study a specific area in depth and to gain additional design experience. Areas of specialization may include computer architecture, integrated circuit design, microprocessor-based systems, sensor networks, image processing, robotics and applications-oriented study in other disciplines of electrical engineering.

The computer engineering option includes a broad spectrum of electrical engineering and computer science courses, as well as electives to allow the student to study a specific area in depth and to gain additional design experience. Areas of specialization may include computer architecture, integrated circuit design, microprocessor-based systems, sensor networks, image processing, robotics and applications-oriented study in other disciplines of electrical engineering.

**Computer Engineering Option in Electrical Engineering**

The computer engineering option is offered within the electrical engineering department in order to give students a broad knowledge of the software and hardware components of modern computing systems, detailed computer-systems design, and the role of computer systems in various engineering disciplines. A primary goal of the program is to prepare the student for a computer-oriented engineering career with emphasis on computer applications within various subdisciplines of electrical engineering.

The computer engineering option includes a broad spectrum of electrical engineering and computer science courses, as well as electives to allow the student to study a specific area in depth and to gain additional design experience. Areas of specialization may include computer architecture, integrated circuit design, microprocessor-based systems, sensor networks, image processing, robotics and applications-oriented study in other disciplines of electrical engineering.

**Freshman**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 101</td>
<td>4 PH 105</td>
<td>4</td>
</tr>
<tr>
<td>MATH 125</td>
<td>4 MATH 126</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 111 or ECE 121</td>
<td>1 ENGR 103</td>
<td>3</td>
</tr>
<tr>
<td>EN 101</td>
<td>3 EN 102</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU), literature (L), or fine arts (FA) elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 106</td>
<td>4 MATH 301</td>
<td>3</td>
</tr>
<tr>
<td>MATH 238</td>
<td>3 ECE 225</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>4 MATH 237</td>
<td>3</td>
</tr>
<tr>
<td>CS 100</td>
<td>4 ECE 380</td>
<td>4</td>
</tr>
<tr>
<td>Humanities (HU), literature (L), or fine arts (FA) elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History (HI) or social and behavioral sciences (SB) elective</td>
<td>3 History (HI) or social and behavioral sciences (SB) elective</td>
<td>3</td>
</tr>
<tr>
<td>ECE 370</td>
<td>3 ECE 332</td>
<td>4</td>
</tr>
<tr>
<td>MATH 355</td>
<td>3 ECE 326</td>
<td>3</td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities (HU), literature (L), or fine arts (FA) elective</td>
<td>3 History (HI) or social and behavioral sciences (SB) elective</td>
<td>3</td>
</tr>
<tr>
<td>ECE 333</td>
<td>4 Restricted Area Elective</td>
<td>3</td>
</tr>
<tr>
<td>ECE 492</td>
<td>2 ECE 494</td>
<td>2</td>
</tr>
<tr>
<td>ECE 484</td>
<td>3 Professional or Restricted Area Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following lecture/lab combinations

| ECE 408 | ECE 407 | 1 |
| ECE 409 | OR |
| ECE 475 | ECE 476 | OR |
| ECE 480 | ECE 481 |

**Total Hours: 123**

1 Students must satisfy the College of Engineering in-depth requirement (minimum of six hours in one discipline).

2 The College of Engineering core curriculum requires a minimum of: nine hours of HU, L, or FA courses; nine hours of HI or SB courses; six hours of FC courses; six hours of W courses (300- and 400-level ECE courses); 12 hours of N courses (eight hours of calculus-based physics); 12 hours of MA courses (MATH 125 Calculus I or higher); and six hours of C or FL courses.

3 The Restricted Area Elective must be chosen from the list approved by the Department of Electrical and Computer Engineering.

4 The Professional Elective must be chosen from the list approved by the Department of Electrical and Computer Engineering.

Electrical and Computer Engineering graduates have career opportunities in a number of industries and fields including, but not limited to, computing, communications, manufacturing, maintenance, utilities, aerospace, automotive, defense/military, medical, and consumer products. The degree also provides an excellent background for graduate study in electrical or computer engineering as well as medicine and law.

**Types of Jobs Accepted**

Electrical and Computer Engineering graduates often gain entry-level positions as utility engineers, plant engineers, programmers, maintenance engineers, or as design engineers with engineering and consulting firms.

**Jobs of Experienced Alumni**

Alumni of the Electrical and Computer Engineering Department currently hold positions such as distribution manager, Alabama Power; vice president, ADTRAN; and senior design engineer, Radiance Technologies.

Learn more about opportunities in this field at the Career Center.
Electrical Engineering, Minor

A student should apply for the Electrical Engineering (EE) minor prior to achieving senior standing in order to have sufficient time to complete all requirements. A student indicates intent for the EE minor by completing the necessary steps online (DegreeWorks). Interested students may find that several of these ECE courses meet the student's department's required or technical electives options.

A student who is not a major in electrical engineering or the computer engineering option can earn a B.S. minor in electrical engineering by completing the following requirements:

- The student must complete 18 hours of ECE designated courses at the 200-level or above.
- A letter grade of a "C-" or higher is required in all coursework for the EE minor
- All prerequisites for ECE courses are required to be met
- At least 50% of the coursework required for the EE minor must be taken on the UA campus.

Department of Mechanical Engineering

Mechanical engineering is the most versatile engineering program. Mechanical engineers pursue careers in a wide variety of industries, research laboratories, educational activities, and government agencies. Mechanical engineering graduates can become involved in research, design, and management in industries such as aerospace, automotive, energy conservation, precision engineering, railroad, heavy machinery, manufacturing, food/forest products, textiles, paper, consumer appliances, robotics, nuclear and fossil power plants, electronics, computer automation, agriculture, heating and air-conditioning, construction, transportation, and mining. A significant number of mechanical engineering graduates use mechanical engineering as the foundation for careers in business administration, law, medicine, and other professions. Many graduates are also accepted for advanced study in mechanical engineering, biomedical engineering, medicine, law, business administration, and dentistry.

- Majors
  - Mechanical Engineering (BS) (p. 1154)

Mechanical Engineering Program

The Mechanical Engineering Honors Program is part of the College of Engineering Honors Programs and is designed to provide an enhanced academic experience for highly motivated, high-achieving students. The program develops problem-solving, critical-thinking and communication skills through a mentored experience-based activity. Research is particularly encouraged. Students completing the ME Honors Program will be awarded a certificate and recognized at the Honors Day ceremony in the student’s senior year. Details can be found online at me.eng.ua.edu under the undergraduate program link.

Accelerated Master's Program (AMP)

The department participates in this when a student has 90 hours when they begin the program and meets other admission test score/GPA requirements. The application process is the same.

Undergraduate Research Program

The Supplemental Undergraduate Research Experience (SURE) program provides our students with an enhanced educational experience.

This is achieved by teaming the student with a faculty mentor who will work with and guide the student as the student completes a structured research project. Participation in the SURE Program will:

- sharpen the student's critical thinking skills
- enhance the student's ability to apply engineering analysis techniques
- improve the student's ability to communicate technical information
- increase the student's confidence in his or her engineering skills
- provide exposure to the graduate-level research environment

Details can be found online at me.eng.ua.edu under the undergraduate program link.

Cooperative Education

Many mechanical engineering students participate in the cooperative education program. This is an academic program where students alternate work terms in an engineering environment in industry with full-time terms of course work. Co-op can greatly enhance your academic experience and employment opportunities.

[object Object]

ME121 Introduction to Mechanical Engineering
Hours 1

An introduction to the discipline of mechanical engineering and the role of the mechanical engineer, including both mechanical and thermal/fluid stems. Focus is on learning about the discipline through a series of student hands-on activities. Credit will not be given for this course for students who have passed ME 215.

Prerequisite(s): MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238.

Prerequisite(s) with concurrency: MATH 112 or MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146 or MATH 227 or MATH 238

ME215 Thermodynamics I
Hours 3

Properties of matter; processes in fluids; zeroth; first and second laws; irreversibility.

Prerequisite(s): MATH 126 or MATH 146 or MATH 132

View All Courses

Faculty

Professor and Department Head
Midkiff, Jr., K. Clark

Professor and Robert F. Barfield Endowed Chair
Agrawal, Ajay K.

Associate Professors
Ashford, Marcus
Fonseca, Daniel
Jordon, Marcus
Schreiber, Will
Shen, Xiangrong
Todd, Beth A.
Williams, Keith
Assistant Professor
Allison, Paul G.
Bittle, Joshua A.
MacPhee, David W.
Mahmoodi, Seyed Nima
O'Neil, Zheng
Uddi, Mruthunjaya 'Jay'
Volkov, Alexey
Yoon, Hwan-Sik

Professors
Balasubramanian, Bharat, Executive Director, Center for Advanced Vehicle Technology
Daniewicz, Steve
Guo, Yuebin
Shepard, Steve
Woodbury, Keith A.

Professors Emeriti
Barfield, Robert F.
Doughty, Julian O.
Evces, Charles R.
Harrisberger, Lee
Kavanaugh, Steve
Parker, Joey K.
Taylor, Robert P

Mechanical Engineering, BS
Mechanical engineering appeals to students who are interested in applying their solid backgrounds in math and physical sciences to understand, design, test, and build real-world devices and processes for the improvement of society. Many ME students delight in hands-on design, test and building experiences.

Students will develop an ability to apply knowledge of mathematics, science, and general engineering to design and conduct experiments; analyze and interpret data; and design systems, components, and processes to meet desired needs.

Program Objectives
The University of Alabama Department of Mechanical Engineering has adopted the following objectives to ensure our graduates are equipped to meet known and anticipated technical challenges of our profession. Out of a commitment to continuously improve the undergraduate curriculum for the mechanical engineering program, the Department of Mechanical Engineering’s faculty has adopted several educational objectives. The following objectives define the early-career accomplishments that the mechanical engineering program is designed to prepare graduates to pursue:

- Our graduates will continue to grow in expertise and knowledge by participating in activities that enhance professional development in their career path.
- Our graduates will contribute to the profession in ways that benefit society.

Student Educational Outcomes
The mechanical engineering program at The University of Alabama will demonstrate that its graduates have:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to model, analyze, design, and realize a system, component, or process to meet ethical, health and safety, manufacturability, and sustainability
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in, lifelong learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- an ability to apply advanced mathematics in both thermal and mechanical systems areas
- the ability to work professionally in both thermal and mechanical systems areas

Freshman

<table>
<thead>
<tr>
<th>Course</th>
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Sophomore

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</table>
### Interim Term Courses

Humanities and social science courses taken during the Interim term may be counted toward the requirements for a BS degree in mechanical engineering. However, interim courses can be used to fulfill mechanical engineering or technical elective requirements only if the specific courses have been approved in advance of registration by the department of mechanical engineering.

Our graduates accept positions in aerospace, automotive, energy, railroad, manufacturing, food/forest products, appliances, robotics, electric power, electronics, automation, heating/air-conditioning, construction, mining, defense/military, business, law and medicine.

---

### Types of Jobs Accepted

Entry level engineering jobs in project engineering, production supervision, product design, process design, maintenance, plant layout, technical marketing/sales, contract supervision, engineering consulting, graduate education in engineering, business, law, medicine and dentistry.

### Jobs of Experienced Alumni

Positions in project leadership, plant management, R&D management, contractors, technical sales/marketing executives, entrepreneurs, consulting *rm executives/owners, corporate executives/managers/owners, business management, physicians, attorneys, dentists, military officers, college faculty, and federal/industrial researchers.

Learn more about opportunities in this field at the Career Center

### Department of Metallurgical and Materials Engineering

The breadth of training afforded to engineers specializing in metallurgical and materials engineering permits entry into many exciting technical fields. All fields of engineering involve metallic, ceramic, polymeric, or composite materials. Virtually every component of any engineered structure is limited by the properties of the materials chosen for its fabrication. The selection, methods of production, heat treatment, and finishing of the materials involved in all aspects of systems of transportation, power generation, communication, food preparation, entertainment, and housing depend on individuals trained in materials. Exciting challenges exist in the development and application of 21st-century materials, which range from the new generation of superconductors and ultra-lightweight composites to new magnetic recording media and sophisticated high-temperature alloys.

It is the objective of the Department of Metallurgical and Materials Engineering undergraduate program to provide an educational experience that develops the fundamental scientific and technical engineering principles to prepare students for the 21st century. Students receive an integrated learning experience, which includes classroom and laboratory courses that enhance their analytical, experimental, synthesis, and design skills for problem solving, that address their responsibilities to society and the environment, and that emphasize the growth of their teamwork, communicative, and leadership talents. Student learning is stimulated by modern facilities that include sophisticated equipment and advanced computer technology in which individual attention is the rule rather than the exception.

Graduates of The University of Alabama’s metallurgical engineering curriculum have distinguished themselves in many careers, holding a wide range of managerial, scientific, and engineering posts across the country in industry, government, and education. The four-year program leading to the BS degree in metallurgical engineering involves a 125-credit-hour course sequence. Advanced study may then be pursued, if desired, to earn the MS or PhD degree.

- Major
  - Metallurgical Engineering (BS) (p. 1156)

### MTE121 Introduction to Materials

Hours 1

An introduction to the materials science and engineering profession and history. The course includes selected topics useful in the study of metallurgical and materials engineering.
MTE252 Metallurgical Process Calculations  
Hours 3  
Mathematical quantitative relations of chemical reactions and physicochemical processes; principles of overall mass and energy balances and the application of these principles to metallurgical systems.  
Prerequisite(s): CH 102, ENGR 103, and MATH 125  
View All Courses

Faculty  
Interim Department Head  
Weaver, Mark L.  
ACIPCO Professor  
Reddy, Ramana G.  
Professors  
Acoff, Viola L.  
Gupta, Subhadra  
Suzuki, Takao  
Thompson, Gregory B.  
Warren, Garry W.  
Weaver, Mark L.  
Associate Professor  
Brewer, Luke N.  
Nastac, Laurentiu  
Assistant Professor  
Li, Lin  
Yan, Feng  
Professor Emeriti  
Bradt, Richard C.  
Stefanescu, Doru M.  
Warren, Garry W.

Metallurgical Engineering, BS  
It is the objective of the Department of Metallurgical and Materials Engineering undergraduate program to provide an educational experience that develops the fundamental scientific and technical engineering principles to prepare the student for the 21st century. Students receive an integrated learning experience, which includes classroom and laboratory courses that enhance their analytical, experimental, synthesis, and design skills for problem solving, that address their responsibilities to society and the environment. These experiences emphasize the growth of their teamwork, communicative, and leadership skills.

Program Objectives  
The University of Alabama Department of Metallurgical and Materials Engineering has adopted the following objectives to ensure that our graduates are equipped to meet known and anticipated technical challenges in our profession. Graduates of the metallurgical and materials engineering program are expected within a few years of graduation to:  
1. Be successful in applying fundamental principles of metallurgical engineering to solve contemporary engineering problems.  
2. Communicate effectively in a wide variety of situations.

3. Succeed in the global engineering professional community.

Student Educational Outcomes  
The Department of Metallurgical and Materials Engineering at The University of Alabama will demonstrate that its graduates have:  
1. The ability to apply knowledge of math, science, and engineering principles to metallurgical systems.  
2. The ability to design and conduct experiments.  
3. The ability to analyze and interpret data and to prepare professional-style engineering reports.  
4. The ability to design metallurgical systems, components, or processes to meet necessary specifications, and understand the fundamental principles of the structure, processing, properties, and performance of metallurgical systems.  
5. The ability to function on multidisciplinary teams.  
6. The ability to identify, formulate, and integrate the knowledge from each of the four elements of the field described in “d” to solve materials selection and design problems.  
7. The ability to communicate effectively through writing and speaking.
8. A broad education necessary to understand the impact of engineering in a global economic, environmental, and societal context.
10. A knowledge of contemporary issues.  
11. The ability to use techniques, skills, and modern engineering tools necessary for engineering practice.  
12. An understanding of professional and ethical responsibilities.

Freshman  

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<th>Fall</th>
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Sophomore  

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Junior  

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<td>Social and behavioral sciences elective (HI/SB)</td>
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<td>Advanced science elective</td>
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<td><strong>17</strong></td>
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</table>
Degrees and Programs Offered

Human Environmental Sciences programs are offered at the bachelor's, master's and, in some cases, doctoral levels. Upon the successful completion of the requirements established for each curriculum, the appropriate degree may be conferred.

Second Bachelor's Degree

To earn a second bachelor's degree in the College, a student must complete a minimum of 30 hours beyond the hours required for the first degree. The 30 additional hours must be completed through the College of Human Environmental Sciences with a grade average of "C" (2.0 GPA) or better. The work must be completed in accordance with all other University and College regulations (see Multiple Degrees and Multiple Majors (p. 891) section in Academic Records and Policies).

General Degree Requirements

The minimum requirements for a degree in the College of Human Environmental Sciences at The University of Alabama are:

- A minimum of 120 earned semester credit hours, including all University Core Curriculum requirements and the human environmental sciences core courses (HES 310 Issues Human Envir Sciences for all students and HES 100 Freshman Compass Human Env Sci for new freshmen on campus HES 103 Distance Compass HES for new online freshmen).
- A 2.0 or higher GPA for all college-level courses attempted, all courses attempted at The University of Alabama and all courses attempted in the major field of study.
- At least 30 semester credit hours earned through The University of Alabama (UA) in the College of Human Environmental Sciences.

It is the student’s responsibility to make sure that all degree requirements have been met. Students should review the academic requirements in the catalog and on DegreeWorks and arrange to meet with their academic advisors in the College of Human Environmental Sciences two semesters prior to graduation to verify that all requirements will have been fulfilled by the expected date of graduation. In order to graduate, a student must submit an application for degree using the online application for degree on myBama no later than the time he or she registers for the final semester at UA.

The College of Human Environmental Sciences follows the admission and retention standards set by the University. The standards for admission to specific professional programs and the conditions for retention in those programs are indicated in the departmental information that follows. The College of Human Environmental Sciences reserves the right to change policies, procedures, degree requirements, schedules, courses offered, and other standards in light of circumstances that may arise.

Once the student chooses a major in the College of Human Environmental Sciences, he or she is assigned a departmental academic advisor/mentor who will counsel him or her about degree requirements, appropriate course sequencing, and other academic matters. It is the student’s responsibility to consult with the academic advisor and then plan and complete an appropriate course of study. Students need to pay careful attention to requirements of the University Core Curriculum, specifically noting any prerequisites that must be met before enrollment in courses that carry core curriculum designations. The core curriculum at myBama.ua.edu should be consulted each semester to determine whether a core curriculum designation remains in effect at the time the student is enrolling in the course. Early in the program, the student should plan an appropriate sequence to satisfy the core curriculum requirements. Students should check with the office of student services of the College of Human Environmental Sciences to verify the successful completion of core curriculum requirements.

### College of Human Environmental Sciences

**Department of Clothing, Textiles and Interior Design (p. 1160)**

**Department of Consumer Sciences (p. 1164)**

**Department of Health Science (p. 1168)**

**Department of Human Development and Family Studies (p. 1171)**

**Department of Human Nutrition and Hospitality Management (p. 1176)**

**General Studies in HES, BS (p. 1183)**

**Interdisciplinary Studies, BA (p. 1184)**

**Interdisciplinary Studies, BS (p. 1184)**

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### Jobs of Experienced Alumni

Our alumni are leaders in the field of metallurgical and materials engineering. The positions they hold at metallurgical/materials engineering companies include president and owner, president and CEO, president and general manager, vice president, COO, senior engineer, technology director, systems engineer manager, senior process engineer, and site manager.

Learn more about opportunities in this field at the Career Center.
History and Objectives
Designated as Human Environmental Sciences in 1987, the College evolved from the tradition and heritage of home economics. Courses were offered as early as the summer session of 1911, with a department of home economics in the College of Arts and Sciences established by 1917. The division became the School of Home Economics in 1931; Agnes Ellen Harris, AM, LLD, was appointed the first dean. Actively engaged in the transmission, generation, and dissemination of knowledge, the College has three main objectives:

1. provide students with the intellectual curiosity and professional competence needed for careers in business, industry, government agencies, health care, and education
2. provide for the general education and intellectual growth of students in other divisions
3. contribute to the body of knowledge that is the foundation for continued enrichment of the educational experience

Class Hour Load
The College of Human Environmental Sciences enforces the same restrictions on class hour loads as the University. These restrictions are outlined in the Academic Records and General Academic Policies (p. 624) section of this catalog.

Transfer Students
A student who transfers into the College of Human Environmental Sciences from another institution must complete EN 101 English Composition and EN 102 English Composition if he or she has not done so previously.

A transfer student must earn at least 30 hours of credit through The University of Alabama in the College of Human Environmental Sciences. Transfer students planning to enter certain majors in the college should be aware of the existence of a required sequence of courses.

Declaration of a Minor
A student pursuing a degree in the College of Human Environmental Sciences may choose a minor course of study within the College or within another academic division. In this catalog, the courses required in particular minors are listed along with the requirements for majors in that division and department.

Students may declare a minor online through myBama using the Change Major/Minor link under the Student tab. The student is responsible for reviewing minor requirements through the listing in the academic catalog and on the DegreeWorks audit. When the student applies for graduation, the registrar for the College of Human Environmental Sciences will verify the completion of all graduation requirements, including any designated minor(s). If the student satisfactorily completes all requirements for the minor, the minor is included on the student’s transcript.

Faculty
Dean
Bosching, Milla D.

Executive Secretary
Klein, Rosemary

Senior Associate Dean
Usdan, Stuart

Assistant Dean
Meyer, Mary Kay

Director of Financial Affairs
Robinson, April

Director of Development
Baker-Parton, Amy

Registrar
Kelly, Carmen

Head of Department of Clothing, Textiles, and Interior Design
Foster, Shirley

Head of Department of Consumer Sciences
Nielsen, Robert

Head of Department of Health Science
Birch, David

Head of the Department of Human Development and Family Studies
Tingle, Carroll

Head of Department of Nutrition and Hospitality Management
Lawrence, Jeannine

Manager of Computer Laboratories and Services
Johnson, Stephen

Director of Child Development Resources
Kendrick, April

Director of the Children's Program
Darabaris, Michelle

Program Director of RISE
Gillen, Andi

CHES Advisor
Carpenter, Karen

Schaefer, Kelly

Wilson, Andrea

Professors
Hernandez-Reif, Maria

Neggers, Yasmin

Robertson, Elizabeth

Turner, Lori

Wright, Kenneth E.

Associate Professor
Crowe-White, Kristi

Curtner-Smith, Mary Elizabeth

Knol, Linda

Koontz, Marcy

Leaver-Dunn, Deidre

McFadden, Anna C.

Nickelson, Joyce

Paschal, Angela

Ross, Levi

Scofield, Jason

Severt, Kimberly
Thompson, Amanda
Tong, Xiao (Michelle)
Witte, Tricia

**Assistant Professor**
Berryhill, Blake
Blitch, Kimberly
Boyle, Kimberly
Burns-Nader, Sherwood
Casper, Deborah M
Chen, Hsiang-Ting
Choi, Shinae
Cook, Reuben
Douglas, Joy
Downs, Karly
Ellis, Amy
Fulmer, Caroline
Gordon, Brian
Hale, Michelle
Hibberd, Elizabeth
Jung, Seung Eun
Kim, Kyoung Tae
Kissingler, Beverly
Kong, Lingyan
Knowlden, Adam
Komara, Blanche Cecile
Lewis, Melvin
Maki, Kristin
McGahey, Courtney
Moran, Ryan
Niuh, Alvin
Peaslee, John
Pentecost, Eve
Reddoch, Kym
Shin, Yeon Ho
Stran, Kim
Tan, Libo
Totenhagen, Casey
Wilmarth, Melissa
Wimberley, Virginia
Zemke, Jeri

**Instructors**
Blumenthal, Jason
Bridgewater, Diane

Crotwell, Terry
Davis, Barbara
Desalvo, Denise M.
Faulkner, Cassandra
Galloway, Hunter
Greene, Lori
Harcrow, Andy
Lee, Michelle
Hugg, Carla
McMahon, Shannon
McMath, Juanita
Robinson, Paula
Taylor, Brian
Thornton, Darryl

**Emeritus**
Abdel-Ghany, Mohamed
Balentine, Margaret
Bolland, John
Brakefield, Jan
Callis, Carolyn
Cook, Martha
Darden, Leatha
Enders, Sally
Hancock, Shelley
Hodge, William
Hodges, Patricia
Hudson, Carmen
Jackson, Ernestine
James, Dennis
Jessee, Peggy
Kendrick, Olivia
Ladewig, Becky
Lane, Ralph
Luck, Cynthia
Maize, Roy
Parker, Sue
Price, Barrie Jo
Roper, Lydia
Stinnett, Nancy
Stinnett, Nick
Stitt, Kathleen
Strickland, Martha
Switzer, Mildred

Department of Clothing, Textiles and Interior Design

- Majors
  - Interior Design (BS) (p. 1163)
  - Apparel and Textiles (BS) (p. 1160)

CTD102 Applied Design
Hours 3

Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD121 Intro Interior Design
Hours 3

Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two laboratories, one lecture.

View All Courses

Faculty

Chair
Foster, Shirley P.

Assistant Professor
Foster, Shirley P.
Maki, Kristin
Peaslee, John E.
Tong, Michelle

Wimberley, Virginia S.

Instructors
Davis, Babs
Faulkner, Cassandra M.
Robinson, Paula H.
Rose, Michelle
Self, Laurl
Taylor, Brian

Associate Professor
Koontz, Marcy L.
Thompson, Amanda

Adjuncts
Kendrick, Carol
Reaves, Lindsey D

Office Staff
Donna McGee

Apparel and Textiles, BS

Basic principles and elements of design, including color theory, are introduced, reviewed, and applied throughout the four-year program. Two- and three-dimensional work, as well as color principles and their application, are studied and used in freshman studio projects. By the completion of the sophomore year, students have developed the ability to render garments and fabrics on croquis. Students refine and individualize their abilities for visual organization, color utilization, sketching/drawing, and design process in the upper-level design studio courses. Progressing from the modification of commercial patterns to development of unique patterns through the flat pattern and draping methods, students take projects from original concepts to finished products.

During the first three years, students take courses that provide opportunities for constant interaction between faculty and students. To be successful, students need a strong grounding in merchandise management, marketing, information systems, human resources management, accounting, and economics. During their senior year, students will complete an internship with a regional or national retailer, manufacturer, or buying office. Typical internship sites include New York City, Atlanta, Dallas, Charlotte, and Birmingham.

307 Doster Hall

The Apparel and Textiles (AT) major offers two concentrations: Fashion Retail (p. 1161) and Apparel Design (p. 1160). (p. 1160)

Students in both AT concentrations must take:

- 21 hours of common courses
- 39 hours of coursework for apparel design or 42 or 43 hours of coursework for fashion retailing

Apparel and Textiles provides career preparation for students interested in merchandising, management, design and production careers in retailing and/or the textile and apparel industry. Apparel and Textiles is also appropriate for students who are interested in pursuing a wide variety of entrepreneurial opportunities in fashion retailing, textiles and/or apparel.

Required courses for all AT majors

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTD 102</td>
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<tr>
<td>CTD 261</td>
<td>3</td>
</tr>
<tr>
<td>CTD 281</td>
<td>3</td>
</tr>
<tr>
<td>CTD 447</td>
<td>3</td>
</tr>
<tr>
<td>CTD 448 or CTD 415</td>
<td>3</td>
</tr>
<tr>
<td>EC 110</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

Apparel Design Concentration for AT Majors

The concentration in apparel design is planned for students interested in preparing for design, production and management careers in the textile and apparel industry. Students may enhance their career preparation by choosing coursework from such areas as art, business and communication, and by completing an internship in textile/apparel production or design. Accreditation by the National Association of Schools of Art and Design was awarded in 2008.

All students interested in transferring into the apparel design concentration at The University of Alabama should contact the Department of Clothing, Textiles, and Interior Design one year prior to enrollment, if possible, to verify transfer credits and plan for a required portfolio review.
Transcripts, student work, project assignments and course syllabi are required at the time of the portfolio review. CTD 241 Apparel Construction is a prerequisite for CTD 245 Apparel Production, which is offered spring semester only. CTD 245 Apparel Production, CTD 349 Compt-Aid Apparel Design, CTD 350 Flat Pattern Design, CTD 351 Apparel Des Thru Drpng and CTD 450 Advanced Apparel Design are not offered in summer school and must be completed in that sequence. Each student will be assigned an academic adviser who will help develop the plan of study.

<table>
<thead>
<tr>
<th>Art history (FA)</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours</td>
<td>45</td>
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</tbody>
</table>

**Fashion Merchandising/Retail for AT Majors**

The fashion retailing internship is an approved work experience completed during the entire fall semester of the student’s senior year. The internship must be a full-time experience, with the student working an average of 40 hours per week. Students will not be required to come to campus that semester. In addition to the internship, students are required to be concurrently enrolled in a special online section of HES 310 Issues Human Envir Sciences.

<table>
<thead>
<tr>
<th>CTD 231</th>
<th>Sewn Products Analysis</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTD 320</td>
<td>Visual Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>CTD 381</td>
<td>Fashion Retailing Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CTD 387</td>
<td>Fashion Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CTD 446</td>
<td>Cult Dynam Apparel Text</td>
<td>3</td>
</tr>
<tr>
<td>CTD 461</td>
<td>Quality Control for Textiles</td>
<td>3</td>
</tr>
<tr>
<td>CTD 485</td>
<td>Intern Fashion Retailing</td>
<td>9</td>
</tr>
<tr>
<td>MGT 300</td>
<td>Org Theory &amp; Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CSM 461</td>
<td>Manag in High Perf Org</td>
<td>3</td>
</tr>
<tr>
<td>MKT 321</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 376</td>
<td>Services Marketing</td>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>MKT 313</th>
<th>Consumer Behavior</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>MKT 337</td>
<td>Personal Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKT 344</td>
<td>Promotional Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 410</td>
<td>Managing Innovation</td>
<td>3</td>
</tr>
<tr>
<td>EC 111</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>CS 285</td>
<td>Microcomputer Appl II</td>
<td>3</td>
</tr>
</tbody>
</table>

| Students are able to both manually and digitally create an original line for a specific target market, articulate the design philosophy underlying the line, execute the pattern work, and prepare the technical flats and specification package for the line items. They are prepared, as a result, to meet the demands of an entry-level position as an assistant designer or assistant technical designer or positions in fashion publishing or apparel manufacturing.

Diverse career opportunities exist for fashion retailing graduates. Some graduates pursue traditional careers in corporate and regional buying and sales, merchandise management, human resource management, store management, product development, wholesale sales, and fashion coordination. Other graduates pursue non-traditional career opportunities in public relations, entrepreneurial enterprises, and as sales representatives outside the apparel industry.

**Types of Jobs Accepted**

Graduates of the Apparel Design program find jobs in every sector of the fashion industry. Many develop clothing lines and pursue businesses of their own, while others find positions assisting established designers, and working in the corporate end of fashion.

Recent graduates have accepted jobs with wholesale apparel companies, buying offices, fashion magazines, and retail stores.

**Jobs of Experienced Alumni**

Graduate of the program Anthony Williams, who appeared on the seventh season of “Project Runway,” is now in development for a TV show about fashion. Anthony’s design from the show was worn by Heidi Klum on the cover of Marie Claire. He also designed the inaugural gown for Alabama’s former First Lady, Mrs. Diane Bentley. Clothing and Textiles graduate Lauren Leonard presented her “Leona” collection during Nashville Fashion Week March 29-April 2, 2011. Graduates Brent Johnson’s and Mary Catherine Moody’s AMAN STOVALL luxury line was also shown. Graduate Michael Spoors began his career designing children’s clothes and is now a vice president at Hanes.

Experienced alumni from our program have included the founder of Gurwitch Products, which manufactures Laura Mercier cosmetics; the president of Karen Kane; the president of Sigrid Olsen; and the assistant manager of the Manhattan Coach flagship store in New York.

Learn more about opportunities in this field at the Career Center.

**Sample Curriculum for the Apparel and Textiles Major with an Apparel Design Concentration**

<table>
<thead>
<tr>
<th>Select one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 313</td>
</tr>
<tr>
<td>MKT 337</td>
</tr>
<tr>
<td>MKT 344</td>
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<tr>
<td>MKT 410</td>
</tr>
<tr>
<td>EC 111</td>
</tr>
<tr>
<td>CS 285</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
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</thead>
<tbody>
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<td>ART 110</td>
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<tr>
<td>CTD 141</td>
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<tr>
<td>CTD 102</td>
<td>3</td>
</tr>
<tr>
<td>CTD 241</td>
<td>3</td>
</tr>
<tr>
<td>Freshman</td>
<td>Hours</td>
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<tr>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>EN 101</td>
<td>3</td>
</tr>
<tr>
<td>EN 102 or 103</td>
<td>3</td>
</tr>
<tr>
<td>HES 100</td>
<td>3</td>
</tr>
<tr>
<td>History (HI) and social and behavioral sciences (SB)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MA)</td>
<td>3</td>
</tr>
<tr>
<td>Sophomore Portfolio Review</td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td>Hours</td>
</tr>
<tr>
<td>CTD 217</td>
<td>3</td>
</tr>
<tr>
<td>CTD 245</td>
<td>3</td>
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<td>CTD 319</td>
<td>3</td>
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<td>CTD 281</td>
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</tr>
<tr>
<td>Art history (FA)</td>
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<tr>
<td>EC 110</td>
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</tr>
<tr>
<td>Humanities (HU) and fine arts (FA)</td>
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<tr>
<td>Natural science (N)</td>
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<tr>
<td>Sophomore Portfolio Review</td>
<td>31</td>
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<tr>
<td>Junior</td>
<td>Hours</td>
</tr>
<tr>
<td>CTD 302 or 446</td>
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</tr>
<tr>
<td>CTD 349</td>
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<td>CTD 350</td>
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<td>CTD 351</td>
<td>3</td>
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<td>CTD 448 or 415</td>
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<tr>
<td>CTD 461</td>
<td>3</td>
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<tr>
<td>Computer science (C) or foreign language (FL)</td>
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<tr>
<td>Writing course (W)</td>
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<tr>
<td>Junior Portfolio Review</td>
<td>27-29</td>
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<tr>
<td>Senior</td>
<td>Hours</td>
</tr>
<tr>
<td>CTD 447</td>
<td>3</td>
</tr>
<tr>
<td>CTD 450</td>
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<td>HES 310</td>
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<td>MKT 300</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Natural science (N)</td>
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<tr>
<td>Senior Portfolio Review</td>
<td>30-32</td>
</tr>
</tbody>
</table>

1. Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.
2. Each student who completes a 6-hour history sequence must take a 3-hour literature course.
3. A four-hour accounting course is required for the general business minor.
Interior Design, BS

The Interior Design program’s philosophy at The University of Alabama acknowledges the need for the interior design profession to remain active in providing for the safety, convenience, and aesthetic satisfaction of users in the 21st century and beyond.

The program in Interior Design prepares students for professional careers in residential and nonresidential interior design. Career opportunities include employment with interior design studios, interior design divisions of architectural firms, retail establishments, and corporate design departments, as well as independent business ownership. The coursework prepares students to become entry-level professionals qualified to sit for the NCIDQ and become registered interior designers. The Interior Design program received a six-year accreditation from the Council for Interior Design Accreditation (CIDA) in 2010. Accreditation by the National Association of Schools of Art and Design (NASAD) was awarded in 2008.

Transfers

All students interested in transferring into the interior design program at The University of Alabama should contact the department of clothing, textiles and interior design at least one year prior to enrollment, if possible, to verify transfer credits and plan for a required portfolio review.

Transcripts, student work, project assignments and course syllabi are required at the time of the portfolio review.

CTD 121 Intro Interior Design is a prerequisite for CTD 225 Residnt Des/Graphic Comm, the first official studio class, which is offered fall semesters only. TRANSFER STUDENTS WHO DO NOT HAVE CREDIT FOR CTD 121 Intro Interior Design (or the equivalent) ARE URGED TO COMPLETE THE COURSE DURING SUMMER SCHOOL IN ORDER TO TAKE CTD 225 Residnt Des/Graphic Comm the first fall semester of enrollment.

Course Sequencing

As well as CTD 225 Residnt Des/Graphic Comm, CTD 226 Nonresidential Design, CTD 325 Design For Special Populations, CTD 326 Design For Hospitality Interio, CTD 425 Advanced Residential Design and CTD 426 Advanced Design are not offered in summer school and must be taken in the above sequence. Studio/Lab courses are open only to interior design majors. Each student will be assigned an academic adviser who will help develop a plan of study.

The Interior Design program serves the interior design profession and its clients and users through quality instruction, research, and service. Our mission addresses student learning in the areas of social and cultural history, sustainability, professional practice, nonresidential and residential clients, and special populations. Computer application relative to design problems and the development of aesthetic skills complete the focus in order to provide for human safely, comfort, function, and convenience. Graduates of the program can expect to secure entry-level positions in a wide variety of areas with the design profession.

Types of Jobs Accepted

Recent graduates have accepted jobs with architectural firms, interior design firms. they have accepted employment with private sector corporate businesses such as restaurants, hotels, and banks, as well as public sector entities such as hospitals, schools, and government agencies. Graduates frequently have been chosen by their firms to become LEED (Leadership in Energy and Environmental Design) certified.

Jobs of Experienced Alumni

Experienced alumni designs have included the interior of a French aircraft for Dassault Aviation; the flagship retail store for New York’s Barneys in Texas; preservationist work in New York with architect David Foster; designs for the U.S. military; and sky boxes for sports arenas. They have worked on high-end residential design in New York with Keith Irvine; in Washington, D.C., with Solis Betancourt; with a design/build firm in Houston, Texas; and with architect Stephen Laney. Graduates also have become executives in the world of design materials (fabrics, carpet, furniture, and lighting). Alumni have pursued graduate education at international schools of architecture such as the Glasgow School of Art.

Learn more about opportunities in this field at the Career Center

Sample Curriculum for the Interior Design Major

Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature. Each student who completes a 6-hour history sequence must take a 3-hour literature course.

Not required for completion of major. Interior design majors who plan to enroll in CTD 423 Intern Interior Design in the summer must register for CTD 323 Interior Design Internship Sem the preceding spring semester.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ART 110 Drawing I</td>
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<tr>
<td>ART 131 3D Design</td>
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<tr>
<td>CTD 102 Applied Design</td>
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</tr>
<tr>
<td>CTD 121 Intro Interior Design</td>
<td>3</td>
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<tr>
<td>Select two Studio Arts of the following or faculty approved Studio Art:</td>
<td></td>
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<tr>
<td>CTD 215 Introduction to Rendering (Interim Only)</td>
<td>6</td>
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<tr>
<td>CTD 255 Comp Appl for Interior Design (C)</td>
<td></td>
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<tr>
<td>CTD 301 I. D. New York Study Tour</td>
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<tr>
<td>CTD 319 Textile Design</td>
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<tr>
<td>CTD 340 Portfolio Development</td>
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<tr>
<td>CTD 353 Language of Design (Italy Trip)</td>
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<tr>
<td>CTD 355 Global Influences on Design (Italy Trip)</td>
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<tr>
<td>CTD 427 ACAD (C)</td>
<td></td>
</tr>
<tr>
<td>CTD 221 Matl Source Int Design</td>
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</tr>
<tr>
<td>CTD 225 Residnt Des/Graphic Comm</td>
<td>3</td>
</tr>
<tr>
<td>CTD 226 Nonresidential Design</td>
<td>3</td>
</tr>
<tr>
<td>CTD 250 Construction Procedure for INT</td>
<td>3</td>
</tr>
<tr>
<td>CTD 261 Textiles</td>
<td>3</td>
</tr>
<tr>
<td>CTD 321 History of Interiors I (History of Interiors I)</td>
<td>3</td>
</tr>
<tr>
<td>CTD 325 Design For Special Populations</td>
<td>4</td>
</tr>
<tr>
<td>CTD 326 Design For Hospitality Interio</td>
<td>4</td>
</tr>
<tr>
<td>CTD 328 Prof Proced Interior Des</td>
<td>3</td>
</tr>
<tr>
<td>CTD 330 Autocad for Interior Design</td>
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</tr>
<tr>
<td>CTD 371 Lighting For Interiors</td>
<td>3</td>
</tr>
<tr>
<td>CTD 422 Research and Theory for INTD (W)</td>
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<tr>
<td>CTD 425 Advanced Residential Design</td>
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</tr>
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<td>CTD 426 Advanced Design</td>
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<td>Art History</td>
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Freshman

CTD 102
CS 102
CTD 121
CTD 221
EN 101
EN 102
HES 100
MATH 110
History (HY) and Social and Behavioral (SB)
LIT, HU, and FA

Sophomore

CTD 225
CTD 226
CTD 330
DR 250
ARH 252
ARH 253
CTD 261
HY or SB

Junior

CTD 325
CTD 326
CTD 328
CTD 371
CTD 321
ART 110
ART 131
Computer science (C) or foreign language (FL)
HY or SB

Senior

CTD 425
CTD 426
CTD 422
CTD 427
CTD 340
HES 310
Writing Elective
LIT, HU, or FA

Hours

Total Hours: 120

Department of Consumer Sciences

In addition to core courses that provide the foundation for understanding consumers in their economic, political, and home environments, the Consumer Sciences curriculum offers two concentrations.

Consumer Affairs Concentration

The Consumer Affairs concentration offers an applied approach to understanding consumers in home and market environments. With coursework in consumer economics, consumer policy, demographics, consumer communications, and family resource management, the Consumer Affairs concentration prepares students for careers as consumer specialists in government, business, research, and non-profit settings. This concentration builds students' capacity to analyze markets and matters of personal finance from the perspective of consumers, and to communicate these issues to stakeholders.

Graduates enjoy careers as analysts, entrepreneurs, sales professionals, customer care and engagement specialists, financial professionals, and similar in private, public, and non-profit sectors. The skills learned in this concentration also prepare students for law school and graduate school.

Family Financial Planning and Counseling Concentration

The Family Financial Planning and Counseling concentration offers students the knowledge and skills necessary for a career in financial planning and related careers. Financial planners guide clients in many aspects of their financial lives: financial goals, cash flow, taxes, retirement, college, business planning, estate planning, and insurance needs, among others. Financial counselors also counsel clients, but with a focus on developing sound personal finance principles such as reducing debt, building an emergency fund, negotiating payments, developing a budget, and similar.

The Family Financial Planning and Counseling Concentration coursework fulfills the educational requirements to sit for the CFP® certification exam that leads to the CERTIFIED FINANCIAL PLANNER™ certification registered with the Certified Financial Planner Board of Standards, Inc. The Certified Financial Planner Board of Standards Inc. owns the marks CFP®, Certified Financial Planner™ and CFP (with flame logo) ®, which it awards to individuals who successfully complete initial and ongoing certification requirements. The University of Alabama does not certify individuals to use the CFP®, Certified Financial Planner™ and CFP (with flame logo) ® certification marks. Only the Certified Financial Planner Board of Standards Inc., grants CFP certification to those persons who, in addition to completing an educational requirement such as this CFP Board Registered Program, have met ethics, experience, and examination requirements.

The Family Financial Planning and Counseling Concentration coursework also fulfills the educational requirements to sit for the Accredited Financial Counselor® exam offered by the Association for Financial Counseling and Planning Education®.

- Major
  - Consumer Sciences (BS)
  - Minor
    - • Consumer Sciences (p. 1167)

[object Object]
CSM101 Introduction to Digital Tools
Hours 3
Students are expected to demonstrate basic proficiency in the word processing, presentation, and spreadsheet tools as well as other emerging productivity tool sets. Specific emphasis is placed on introducing skills and uses related to data storage applications, basic technology privacy and security issues, mobile device applications, social media, communications technology, and work-place applications. Students exit this class with a basic introduction to each topic and other emerging topics deemed relevant for today's digital citizens, consumers, and professionals.

CSM116 Quantitative Methods of Financ MA
Hours 3
This three-credit hour course is intended to develop mathematical fluency within the context of financial planning/literacy. It is broad in scope and content rather than specific to a particular discipline, is an introduction to the basic tools and techniques necessary for the development of a successful personal financial plan over one's life span and emphasizes the use of mathematical techniques as a tool for analysis. CSM 116 includes topics such as real and nominal rates of return, probability, and algebra functions. An emphasis is placed on mathematical reasoning in solving financial problems. It uniquely serves as a course for students not intending to pursue further study in mathematics, science, or engineering, but for students who will be able to utilize mathematical tools to make sound financial decisions. Students will apply practical skills by setting and reaching financial goals as elements of an integrated system, manipulating of quantitative data, calculating future financial needs, and using mathematical induction formulas and tools to determine predictability of expected outcomes. The course commences with money management and credit use, progresses to investments, insurance, retirement planning, and culminates in wealth accumulation and estate planning as the basis for mathematical problem solving exercises. CSM 116 is designed to provide a foundation both for further study and for personal enrichment. Grades are reported as A, B, C, or NC (No Credit).
Prerequisite(s): MATH 100

Mathematics
View All Courses

Faculty
Dean
Boschung, Milla D.
Chair
Nielsen, Robert
Professor
Wright, Kenneth E.
Assistant Professor
Choi, Shinae
Cook, Reuben
Fulmer, Caroline S.
Hale, Michelle
Kim, Kyoung Tae
Lewis, Melvin
McGahey, Courtney L.
McMath, Juanita
Pak, Tae-Young
Pentecost, Eve
Reddoch, Kym
Shin, Su
Stebbins, Richard
Wilmarth, Melissa

Associate Professor Emerita
McFadden, Anna

Professor Emerita
Abdel-Ghany, Mohamed
Brakefield, Jan L.
Hodge, William H.
Price, Barrie Jo

Consumer Sciences, BS

Office: 316 Adams Hall
Consumer Affairs Concentration

The Consumer Affairs concentration offers an applied approach to understanding consumers in home and market environments. With coursework in consumer economics, consumer policy, demographics, consumer communications, and family resource management, the Consumer Affairs concentration prepares students for careers as consumer specialists in government, business, research, and nonprofit settings. This concentration builds students' capacity to analyze markets and matters of personal finance from the perspective of consumers, and to communicate these issues to stakeholders.

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Board Registered Program, have met ethics, experience, and examination requirements.

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### Consumer Science Major Courses

**Required for all CSM Majors**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSM 201</td>
<td>Indiv Family Resource Mgt</td>
<td>3</td>
</tr>
<tr>
<td>CSM 204</td>
<td>Intro Personal Finance Plan</td>
<td>3</td>
</tr>
<tr>
<td>CSM 303 or CSM 403</td>
<td>Introduction to Consumer Economics</td>
<td>3</td>
</tr>
<tr>
<td>CSM 401</td>
<td>Consumer Protection</td>
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</tr>
<tr>
<td>CSM 405</td>
<td>Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>ST 260 or BER 345</td>
<td>Statistical Data Analysis or Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CSM 381 or MKT 300</td>
<td>Consumer Marketing Management or Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 21**

### Family Financial Planning and Counseling Concentration

**Family Financial Planning and Counseling Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AC 210</td>
<td>Intro To Accounting</td>
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</tr>
<tr>
<td>CSM 300</td>
<td>Time Value of Money</td>
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</tr>
<tr>
<td>CSM 400</td>
<td>Personal Insurance Plan &amp; Mgt</td>
<td>3</td>
</tr>
<tr>
<td>CSM 404</td>
<td>Personal Investment Plan &amp; Mgt</td>
<td>3</td>
</tr>
<tr>
<td>CSM 410</td>
<td>Pers Retire Plan Employ Benefits</td>
<td>3</td>
</tr>
<tr>
<td>CSM 420</td>
<td>Personal Estate Planning</td>
<td>3</td>
</tr>
<tr>
<td>CSM 454</td>
<td>Personal Income Tax Mgt Planning</td>
<td>3</td>
</tr>
<tr>
<td>CSM 458</td>
<td>Spreadsheets in Fin. Decisions</td>
<td>3</td>
</tr>
<tr>
<td>CSM 459</td>
<td>Techniques of Counseling in Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CSM 460</td>
<td>Financial Planning Case Study Capstone Course</td>
<td>3</td>
</tr>
<tr>
<td>HD 462 or HD 262</td>
<td>Interpersonal Relationships or Marriage And Family</td>
<td>3</td>
</tr>
<tr>
<td>TH 113</td>
<td>Voice And Diction</td>
<td>3</td>
</tr>
<tr>
<td>COM 123</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 32**

### Recommended Courses

**Recommended Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CSM 390</td>
<td>Field Experience</td>
<td>1-6</td>
</tr>
<tr>
<td>CSM 430</td>
<td>Consumer Demographics</td>
<td>3</td>
</tr>
<tr>
<td>CSM 451</td>
<td>Consumer Communications</td>
<td>3</td>
</tr>
<tr>
<td>CSM 441</td>
<td>Consumer Communications</td>
<td>3</td>
</tr>
<tr>
<td>CSM 445</td>
<td>Applied Digital Tools</td>
<td>3</td>
</tr>
<tr>
<td>CSM 451</td>
<td>Consumer Demographics</td>
<td>3</td>
</tr>
<tr>
<td>CSM 461</td>
<td>Manag in High Perf Org</td>
<td>3</td>
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</table>

### Recommended General Elective

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CSM 390</td>
<td>Field Experience</td>
<td>1-6</td>
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### Consumer Affairs Concentration

**Consumer Affairs Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>CSM 403</td>
<td>Consumer Economics</td>
<td>3</td>
</tr>
<tr>
<td>CSM 415</td>
<td>Customer Service Management</td>
<td>3</td>
</tr>
<tr>
<td>CSM 425</td>
<td>Conflict Resolution Workplace</td>
<td>3</td>
</tr>
</tbody>
</table>

### Financial Planning and Counseling Concentration

**Financial Planning and Counseling Concentration**

- Financial planner
- Financial counselor
- Banks/credit union
- Accounting office staff
- Employee benefits representative
- Insurance consultant/sales
- Retirement planner
- Social Security Administration representative
- Cooperative Extension Agent
- Credit counselor
• Estate planning professional
• Law student
• Graduate student

Learn more about opportunities in this field at the Career Center

Family Financial Planning and Counseling Concentration

<table>
<thead>
<tr>
<th>Grade</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
<th>Total Hours</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>EN 101: 3</td>
<td>EN 102: 3</td>
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<tr>
<td></td>
<td>HES 100: 3</td>
<td>EC 110: 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CS 102 or CSM 101: 3</td>
<td>CSM 204: 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 112 or 110: 3</td>
<td>3 Natural Science Core: 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>History Core: 3</td>
<td>Fine Arts Core: 3</td>
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<tr>
<td></td>
<td>EN 101: 3</td>
<td>EN 102: 3</td>
<td>6</td>
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<tr>
<td></td>
<td>HES 100: 3</td>
<td>EC 110: 3</td>
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<tr>
<td></td>
<td>CS 102 or CSM 101: 3</td>
<td>CSM 204: 3</td>
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<td>MATH 112 or 110: 3</td>
<td>3 Natural Science Core: 4</td>
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<tr>
<td></td>
<td>History Core: 3</td>
<td>Fine Arts Core: 3</td>
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Sophomore

<table>
<thead>
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<tbody>
<tr>
<td></td>
<td>CSM 201: 3</td>
<td>HU or FA: 3</td>
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<tr>
<td></td>
<td>EC 111: 3</td>
<td>HI or SB or L: 3</td>
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<tr>
<td></td>
<td>HU/FA or Lit: 3</td>
<td>Computer Core: 3</td>
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<td></td>
<td>COM 123, HD 262, or TH 113: 3</td>
<td>ST 260 or BER 345: 3</td>
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<td></td>
<td>Natural Science Core: 4</td>
<td>AC 210: 4</td>
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<tr>
<td></td>
<td>CSM 300: 3</td>
<td>1 HI or SB or L: 3</td>
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<tr>
<td></td>
<td>CSM 303: 3</td>
<td>3 Natural Science Core: 4</td>
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<td></td>
<td>CSM 400: 3</td>
<td>3 CSM 405: 3</td>
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<td>CSM 401: 3</td>
<td>3 CSM 410: 3</td>
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<td>CSM 404: 3</td>
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<td></td>
<td>13</td>
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Senior

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<tbody>
<tr>
<td></td>
<td>CSM 381: 3</td>
<td>Writing Core CSM 441, CSM 451: 3</td>
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<td>CSM 458: 3</td>
<td>CSM 454: 3</td>
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<td></td>
<td>CSM 459: 3</td>
<td>CSM 460: 3</td>
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<td></td>
<td>Elective: 3</td>
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<tr>
<td></td>
<td>15</td>
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</table>

Total Hours: 120

Consumer Sciences, Minor

Office: 316 Adams Hall

Admission into the Minor

A minor in consumer sciences is available to students outside the Department of Consumer Sciences. Eighteen hours are required, including CSM 201 Indiv Family Resourc Mgt and CSM 204 Intro Personl Finan Plan and CSM 303 Introduction to Consumer Economics or CSM 381 Consumer Marketing Management and 9 additional hours selected in consultation with a department advisor. At least 6 hours of consumer sciences classes must be 300 level or above.

Students should formally declare a minor before or during the third year of full-time enrollment.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CSM 201: 3</td>
<td>Indiv Family Resourc Mgt: 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CSM 204: 3</td>
<td>Intro Personl Finan Plan: 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSM 303 or Introduction to Consumer Economics: 3</td>
<td>CSM 381 Consumer Marketing Management: 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 9 hours of CSM electives CSM 403, CSM 405, CSM 415, CSM 425, CSM 427, CSM 428, CSM 430, CSM 437, CSM 440, CSM 441, CSM 451, CSM 459, CSM 475, CSM 480, CSM 486: 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Hours: 18</td>
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</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.
Ancillary Courses
This minor does not require ancillary courses.

Additional Minor Requirements
Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student should meet with an adviser in the major department for academic planning.

Department of Health Science

- Athletic Training (BSAT) (p. 1168)
- Public Health (BS) (p. 1170)

ATR257 Intro to Athletic Training
Hours 3
The study of current principles in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

HHE265 Safety and Injury Prevention
Hours 3
Among people 1-44 years of age, unintentional injury is the leading cause of death in the United States according to the centers for disease control and prevention (CDC). Even after age 44, unintentional injury remains among the top ten causes of mortality among Americans. Additionally, millions of Americans are injured each year and do not die. For individuals that survive an injury, pain and disability can linger for years, if not for the rest of their lives. This course explores the complex nature of unintentional injuries while examining the impact of various prevention strategies.

Prerequisite(s): NONE
Prerequisite(s) with concurrency: NONE

View All Courses

Faculty

Department Head
Birch, David

Professors
Birch, David
Turner, Lori
Usdan, Stuart

Associate Professors
Leaver-Dunn, Deidre
Nickelson, Jen
Paschal, Angela
Ross, Levi

Assistant Professors
Gordon, Brian
Hibberd, Lizzie
Knowelden, Adam
Moran, Ryan

Zemke, Jeri
Instructor
Harcrow, Andy

Athletic Training, BSAT
Athletic training encompasses the prevention, examination, diagnosis, treatment, and rehabilitation of emergent, acute, or chronic injuries and medical conditions. Athletic training is recognized by the American Medical Association (AMA), Health Resources Services Administration (HRSA), and the Department of Health and Human Services (HHS) as an allied health care profession.

Athletic trainers (ATs) are highly qualified, multi-skilled health care professionals who collaborate with physicians to provide preventive services, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic trainers work under the direction of a physician as prescribed by state licensure statutes.

Accredited by the Commission on Accreditation of Athletic Training Education (CAATE), the limited-enrollment professional program requires the completion of 120 semester hours as specified below and leads to the Bachelor of Science in Athletic Training (BSAT) degree. Students must be accepted into the professional phase of the Athletic Training Program (AT Program) to complete the degree. Completion of the professional program requires a minimum of six consecutive semesters or three academic years. All ATR courses must be taken in sequence and students must earn a grade of ‘C’ or higher in all professional program courses. Students enrolled in the professional program must maintain a minimum overall GPA of 2.5.

Admitted students are required to undergo blood-borne pathogen training, TB testing, and a physical examination annually and must maintain current first aid and professional rescuer-level CPR certification. Professional program students also have access to the Hepatitis B vaccination at no charge. An annual background check and drug screening are also required of admitted students.

The undergraduate catalog is published at one-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most current information on degree and other requirements. Students should always obtain the most recent advising sheet, available from the AT Program office and the HES Student Services Office in 101 Doster Hall.

Office: 480 Russell Hall
For application to the professional phase of the AT Program a student must fulfill the following requirements:

- complete all prerequisite courses with a grade of ‘C’ or higher
- maintain a minimum 2.75 overall grade point average (28 hours)
- be evaluated by AT Preceptors*
- submit a formal AT Program application & essay*
- provide proof of current CPR training that includes AED use, 2 rescuer techniques and care for infants & children*
- submit three standardized recommendation forms*
- submit an official transcript from The University of Alabama*
- take a clinical skills examination with the AT Program Selection Committee*
• complete a personal interview with AT Program Selection Committee*
• undergo a comprehensive evaluation by the AT Program Selection Committee*

*These steps will be addressed in ATR 258, Clinical Fundamentals, which must be taken at The University of Alabama during the semester of application to the professional program.

On average, 28 students are admitted to the professional program each year. Selections are made at the end of the spring semester. Students must also meet specific written technical standards prior to admission to the professional phase of the program. A copy of these standards is available from the office of the program director. Selection into the professional phase of the AT Program is competitive and satisfaction of the minimum requirements does not guarantee admission. An individual may request information concerning summative data on the most recent professional program admissions from the program director.

**Students must earn a grade of C or higher in all prerequisite and professional program courses**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit Hours Subtotal: 27</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PREREQUISITE COURSES</strong></td>
<td></td>
</tr>
<tr>
<td>ATR 257</td>
<td>Intro to Athletic Training</td>
</tr>
<tr>
<td>ATR 258</td>
<td>Clinical Fundamentals</td>
</tr>
<tr>
<td>ATR 272</td>
<td>First Aid, Safety &amp; CPR</td>
</tr>
<tr>
<td>BSC 114</td>
<td>Principles Of Biology I</td>
</tr>
<tr>
<td>&amp; BSC 115</td>
<td>and Laboratory Biology I</td>
</tr>
<tr>
<td>EN 101</td>
<td>English Composition</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition</td>
</tr>
<tr>
<td>HHE 270</td>
<td>Personal Health</td>
</tr>
<tr>
<td>NHM 101</td>
<td>Intro Human Nutrition</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>MATH 112</td>
<td>Precalculus Algebra</td>
</tr>
<tr>
<td>MATH 113</td>
<td>Precalculus Trigonometry</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalc Algebra &amp; Trig</td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>PY 101</td>
<td>Intro To Psychology</td>
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<tr>
<td><strong>PROFESSIONAL PROGRAM COURSES</strong></td>
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</tr>
<tr>
<td>ATR 300</td>
<td>Foundations in AT</td>
</tr>
<tr>
<td>ATR 310</td>
<td>Clinical Skills I</td>
</tr>
<tr>
<td>ATR 320</td>
<td>Clinical Skills II</td>
</tr>
<tr>
<td>ATR 357</td>
<td>Exam &amp; Diagnosis I</td>
</tr>
<tr>
<td>ATR 358</td>
<td>Exam &amp; Diagnosis II</td>
</tr>
<tr>
<td>ATR 360</td>
<td>Exam &amp; Diagnosis III</td>
</tr>
<tr>
<td>ATR 410</td>
<td>Clinical Skills III</td>
</tr>
<tr>
<td>ATR 420</td>
<td>Clinical Skills IV</td>
</tr>
<tr>
<td>ATR 430</td>
<td>Clinical Skills V</td>
</tr>
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<td>ATR 440</td>
<td>Clinical Skills VI</td>
</tr>
<tr>
<td>ATR 453</td>
<td>Appl Clin Res Skills</td>
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<tr>
<td>ATR 454</td>
<td>Healthcare Admin</td>
</tr>
<tr>
<td>ATR 455</td>
<td>Pharm and Path</td>
</tr>
<tr>
<td>ATR 456</td>
<td>Ther Int: Rehab &amp; Recon</td>
</tr>
<tr>
<td>ATR 457</td>
<td>Ther Int: Ther Modalities</td>
</tr>
<tr>
<td>ATR 458</td>
<td>Seminar in AT</td>
</tr>
<tr>
<td>BSC 215</td>
<td>Human Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>BSC 216</td>
<td>Human Anatomy &amp; Physiology II</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Credit Hours Subtotal: 57</th>
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<tbody>
<tr>
<td><strong>Types of Jobs Accepted</strong></td>
</tr>
<tr>
<td>Recent graduates are now athletic training graduate assistants, fellows or interns at Arizona State University, University of Iowa, North Carolina State University, University of Toledo, Virginia Tech, Florida State and Mercer University. Other recent alumni work as athletic trainers with Andrews Sports Medicine, Encore Rehabilitation, Drayer Physical Therapy Institute, Champion Sports Medicine, Real Salt Lake, Mississippi State and Samford University.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit Hours Subtotal: 84</th>
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</thead>
<tbody>
<tr>
<td><strong>Jobs of Experienced Alumni</strong></td>
<td></td>
</tr>
<tr>
<td>Experienced alumni serve in capacities such as school athletic trainer, collegiate athletic trainer, professional sports athletic trainer, performing arts athletic trainer, director of sports medicine, outpatient physical therapy clinic director.</td>
<td></td>
</tr>
<tr>
<td><strong>Learn more about opportunities in this field at the Career Center</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Faculty | |
|---------| |
| **Associate Professor** | |
| Deidre Leaver-Dunn, PhD, LAT, ATC | |
| **Assistant Professors** | |
| Elizabeth Hibberd, PhD, LAT, ATC | |
| Ryan Moran, PhD, LAT, ATC | |
| Jeri Zemke, PhD, LAT, ATC | |
| **Adjunct Instructors** | |
| Jennifer Brown, MS, LAT, ATC | |
| Rodney Brown, MA, LAT, ATC | |
| Mandy Faunda, MS, LAT, ATC | |
| Rebecca Jones, MED, LAT, ATC | |
| Christopher Wise, MS, LAT, ATC | |

| Preceptors | |
|-----------| |
| Kyle Adams, MS, LAT, ATC | |
| Jeff Allen, MEd, LAT, ATC | |
| Chris Boyce, MA, MS, PT, LAT, ATC | |
| Brett Bentley, MD | |
| David Bredeke, PT | |
| Tim Brister, LAT, ATC, CSCS | |
| Lauren Buckalew, DPT | |
| Craig Buettner, MD | |
| Bernard Burroughs, MEd, LAT, ATC | |
| Sarah Clos, LAT, ATC | |
| Scott Collen, MS, LAT, ATC | |

| KIN 365 | Applied Biomechanics | 3 |
| KIN 492 | Physiology of Exercise | 3 |
| NHM 315 | Nutrition For Performance | 3 |
| PH 101 | General Physics I | 4 |

| Electives (variable) | |
|---------------------| |
| **Total Hours** | 84 |
Public Health, BS

The undergraduate program in Public Health is designed for students interested in public health education or other health professions. The program offers two concentrations: 1) health education and health promotion and 2) health professions. Students enrolled in the health education and health promotion concentration will prepare for careers in community, medical care, and work-site health promotion. The health professions concentration is appropriate for students interested in graduate study in physical therapy or medicine, as well as other allied health and public health professions.

In addition to the University Core Curriculum, the Public Health degree requires 51 hours of major coursework. Though students may choose from a variety of elective courses in addition to the specific major courses, other courses (as approved by and selected in consultation with your program advisor) may also be considered to satisfy prerequisite courses for future undergraduate or graduate program pursuits. Total coursework required for the degree is 120 semester hours.

Students who complete the requirements for the health education and promotion concentration will be eligible to sit for the Certified Health Education Specialist (CHES) examination. Students in the health professions concentration who opt to take additional health education coursework could also qualify for eligibility to sit for the CHES examination. For specific information regarding certification as a health education specialist, please visit the National Commission for Health Education Credentialing, Inc.

The undergraduate program in public health is designed for students interested in public health education and/or other health professions. The program offers two concentrations: 1) health education and health promotion and 2) health professions. Students enrolled in the health education and health promotion concentration will prepare students for careers in community, medical care and work-site health promotion. The health professions concentration is appropriate for students interested in graduate study in physical therapy or medicine, as well as other allied health and public health professions. In addition to the University core curriculum, the Public Health degree requires 51 hours of major coursework. Total coursework required for the degree is 120 semester hours.

Public Health, BHL

<table>
<thead>
<tr>
<th>Major Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HHE 270</td>
<td>Personal Health</td>
</tr>
<tr>
<td>HHE 273</td>
<td>Community And Public Health</td>
</tr>
<tr>
<td>HHE 370</td>
<td>Prin/Foundatin Health Promotion</td>
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<tr>
<td>HHE 445</td>
<td>Environmental Health</td>
</tr>
<tr>
<td>HHE 446</td>
<td>Health Disparities</td>
</tr>
<tr>
<td>CHS 420</td>
<td>Basic Epidemiology</td>
</tr>
<tr>
<td>CSM 441 or</td>
<td>Consumer Communications</td>
</tr>
<tr>
<td>CSM 445</td>
<td>Applied Digital Tools</td>
</tr>
<tr>
<td>CSM 447</td>
<td>Advanced Digital Tools</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>PY 211</td>
<td>Elem Statistical Methods</td>
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<td>BER 345</td>
<td>Educational Statistics</td>
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<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
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<tr>
<td>Credit Hours Subtotal:</td>
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</table>

Concentration

Select one of the following: 12-24
Health Education and Health Promotion concentration

<table>
<thead>
<tr>
<th>Health Professions concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

**Concentrations**

In addition to the public health major requirements, students should select either the health education and health promotion concentration or the health professions concentration.

**Health Education and Health Promotion Concentration**

The requirements for the Health Education and Health Promotion concentration are listed below.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
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<tbody>
<tr>
<td>3</td>
<td>HHE 378 Drug Awareness Education</td>
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<tr>
<td>3</td>
<td>HHE 440 Understanding Stress Mgt</td>
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<td>3</td>
<td>HHE 467 Design Eval Health Promo</td>
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<tr>
<td>3</td>
<td>HHE 468 Pract Appl Health Comm &amp; Promo</td>
</tr>
<tr>
<td>3</td>
<td>HHE 480 Culminating Experi HEP</td>
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<tr>
<td>3</td>
<td>HD 475 Human Sexuality Sex Education</td>
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<tr>
<td>3</td>
<td>KIN 199 Ecol Appr Hlth &amp; Fitness</td>
</tr>
<tr>
<td>3</td>
<td>NHM 101 Intro Human Nutrition</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**Health Professions Concentration**

Health Professions Advising Office

200 Clark Hall, (205) 348-5970
prehealth.ua.edu

The Health Professions Concentration can be used by students who identify an interest in applying to allied health undergraduate and/or graduate programs (i.e., medicine, dentistry, physical therapy, pharmacy, physician assistant, nursing, etc.). Students should identify this interest early in order to complete the program requirements for the respective allied health program. Submission of applications to such programs is entirely the responsibility of the student. The Health Professions Advising Office in the College of Arts and Sciences is available to assist public health majors wishing to apply to allied health undergraduate and/or graduate programs.

The requirements for the Health Professions Concentration are listed below.

**Required Courses**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HHE 378 Drug Awareness Education</td>
</tr>
<tr>
<td>3</td>
<td>HHE 440 Understanding Stress Mgt</td>
</tr>
<tr>
<td>3</td>
<td>HD 475 Human Sexuality Sex Education</td>
</tr>
<tr>
<td>3</td>
<td>NHM 101 Intro Human Nutrition</td>
</tr>
<tr>
<td></td>
<td><strong>Credit Hours Subtotal:</strong></td>
</tr>
</tbody>
</table>

**Health Professions Support Courses**

Select four courses in consultation with public health advisor:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Health related course</td>
</tr>
<tr>
<td>3</td>
<td>Health related course</td>
</tr>
<tr>
<td>3</td>
<td>Health related course</td>
</tr>
<tr>
<td>3</td>
<td>Health related course</td>
</tr>
<tr>
<td></td>
<td><strong>Credit Hours Subtotal:</strong></td>
</tr>
</tbody>
</table>

**Total Hours** 24

---

**NOTE:** Prerequisite courses for allied health undergraduate and/or graduate programs can also be used for the Health Professions Support Courses. Specific admissions requirements vary; therefore, students preparing to enter allied health programs should consult the catalogs of the schools of their interest early in their undergraduate enrollment in order to be informed of the exact requirements for entrance.

The undergraduate catalog is published at one-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet available from their academic advisers.

Students enrolled in the health education and health promotion concentration will prepare students for careers in community, medical care, and work-site health promotion. The health professions concentration is appropriate for students interested in graduate study in physical therapy or medicine, as well as other allied health and public health professions.

Learn more about opportunities in this field at the Career Center

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**Department of Human Development and Family Studies**

The Department of Human Development and Family Studies offers majors in early childhood education, addiction and recovery, and in human development and family studies (HDFS). In the HDFS major, four concentrations are offered: family life education and advocacy; adolescence and youth development, child life and child development practitioners. For non-majors, the department offers minors in addiction and recovery studies and human development and family studies.

In addition to selecting a major and concentration, a student may also select a minor to enhance his or her program of study and career opportunities. Other University of Alabama academic divisions offer many appropriate minors. Requirements for these minors are found in the sections of this catalog pertaining to those divisions. The student should select a concentration and/or minor in consultation with a departmental adviser to ensure that program requirements are fulfilled. The student should also consult the adviser before choosing elective courses.

Students who plan to apply for graduate study should complete at least one elective course in undergraduate research methods and statistics.

- **Majors**
  - Early Childhood Education (BS) (p. 1172)
  - Human Development and Family Studies (BS) (p. 1173)
- **Minors**
  - Human Development and Family Studies (p. 1175)
  - Addiction and Recovery Studies (p. 1172)

**HD101 Life Span Human Development SB**

**Hours 3**

An introductory survey of basic principles of human development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial development. HD 101 counts toward the Social and Behavioral Sciences requirement of the UA Core.

Social and Behavioral Sciences
HD202 Child Dev-Infancy/Todlr

Hours 3

The growth and development of the child from conception to three years of age are studied. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week. HD 202 and HD 205 cannot be taken in the same semester.

View All Courses

Faculty

Department Head
Carroll M. Tingle

Professor
Hernandez-Reif, Maria

Associate professors
Curtner-Smith, Mary Elizabeth
Scofield, Jason
Witte, Tricia

Assistant professors
Berryhill, Blake
Blitch, Kimberly
Burns-Nader, Sherwood
Casper, Deborah
Downs, Karly
Komara, Cecile
Totenhagen, Casey

Professors Emeriti
Hudson, Carmen
Enders, Linda
Jesse, Peggy
Ladewig, Becky
Stinnett, Nancy
Stinnett, Nick
Strickland, Martha S.

Addiction and Recovery Studies, Minor

Office: 214 CDRC

Admission into the Minor

Students who choose to declare a minor must meet with an advisor in the minor department. Students should complete the Change of Major/Minor Application online under the Student tab of myBama before or during the third year of full-time enrollment.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD 210 Understanding Addiction</td>
<td>3</td>
</tr>
<tr>
<td>HD 302 Child Dev-Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>HD 350</td>
<td>3</td>
</tr>
</tbody>
</table>

| Hours |

| HD 445 Addiction and the Family     | 3     |
| HHE 378 or Drug Awareness Education | 3     |
| SW 414 Chemical Dependency         |       |

Select one of the following:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD 405 Policy Issues: Family, Crime and Addictions</td>
</tr>
<tr>
<td>CJ 240 Juvenile Delinquency</td>
</tr>
<tr>
<td>PY 358 Abnormal Psychology</td>
</tr>
<tr>
<td>CSM 204 Intro Personl Finan Plan</td>
</tr>
<tr>
<td>CSM 424 Addict. &amp; Dysf. in Money Mgmt</td>
</tr>
</tbody>
</table>

Total Hours 18

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA and all work attempted applicable to the minor throughout the entire higher education career. Please see Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary Courses

This minor does not require ancillary courses.

Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

Early Childhood Education, BS

Experimental learning activities, assessment, and practicums are provided for students on and off campus through the Office of Clinical Experiences. On-campus facilities providing structured practicums include the Child Development Laboratories and the Rural Infant Stimulation Environment (RISE) Program. These programs provide opportunities for students to work with infants, toddlers, and children who have a broad range of special needs. In addition, all students who major in early childhood special education will complete supervised practicum and internship experiences in diverse public school settings.

Degree Options

Early childhood education students graduate with a Bachelor of Science in Human Environmental Sciences degree. Students who choose to do so may continue their education in a teacher education master’s program to obtain teacher certification, or they may pursue a Master of Science in Human Environmental Sciences. Some students continue to one of the HDFS collaborative doctoral programs in education or psychology.

All students with a major in human development and family studies must take the following courses as part of the University core requirements:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 114 Principles Of Biology I</td>
</tr>
<tr>
<td>&amp; BSC 115 or Laboratory Biology I</td>
</tr>
</tbody>
</table>
in each concentration. There are also recommended elective courses the concentrations available to HDFS majors, including courses required and development throughout the lifespan. Following are descriptions of development and family studies provides an understanding of growth and the dynamics of family relationships. Others. Students gain an understanding of the development of the family helping people learn, solve life problems and successfully interact with genuine concern for children and families and seek the challenge of Students majoring in human development and family studies have a degree program may qualify to apply for state teacher certification of children birth - Pre-K.

Each student completing the Early Childhood Education major must have a grade point average of 2.0 or higher in both HD and UA coursework before enrolling in HD 495 Early Childhood Ed Internship. Many internship opportunities require a cumulative and HD GPA of 2.5 or higher. Students should contact the department’s internship coordinator for further information.

Early Childhood Educator, birth-pre K teacher, early interventionist, curriculum specialist, case manager, advocate for early childhood policies, employee for non-profit organization

Jobs of Experienced Alumni

Lead teachers, pre-K teachers, instructional facilitators, cooperating master teachers, school administrators (principals, special education supervisors, directors of non-profit organizations)

Learn more about opportunities in this field at the Career Center

Human Development and Family Studies, BS

Students majoring in human development and family studies have a genuine concern for children and families and seek the challenge of helping people learn, solve life problems and successfully interact with others. Students gain an understanding of the development of the family system and the dynamics of family relationships. The major in human development and family studies provides an understanding of growth and development throughout the lifespan. Following are descriptions of the concentrations available to HDFS majors, including courses required in each concentration. There are also recommended elective courses to enhance the various programs of study. A list of these courses is available from the student’s departmental advisor.

Degree Options

A student majoring in human development and family studies graduates with a bachelor of science degree in human environmental sciences. Students may continue their education and pursue a Master of Science in Human Environmental Sciences. Some students move to one of our collaborative doctoral programs in education or psychology.

All students with a major in human development and family studies must take the following courses as part of the University core requirements:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Total Hours</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Early Childhood Education Major

The major in early childhood education (ECHS) is designed to provide students with an understanding of the growth and development of young children (conception through 8 years of age). Additionally, students learn to apply developmental principles in the design, implementation and evaluation of programs for young children. Beginning fall 2017, graduates of this degree program may qualify to apply for state teacher certification of this degree program may qualify to apply for state teacher certification

Students may continue their education and pursue a Master of Science with a bachelor of science degree in human environmental sciences. A student majoring in human development and family studies graduates available from the student’s departmental advisor.

Degree Options

A student majoring in human development and family studies graduates with a bachelor of science degree in human environmental sciences. Students may continue their education and pursue a Master of Science in Human Environmental Sciences. Some students move to one of our collaborative doctoral programs in education or psychology.

All students with a major in human development and family studies must take the following courses as part of the University core requirements:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-58</td>
<td>Select an existing concentration or propose a personalized concentration</td>
</tr>
<tr>
<td>51-68</td>
<td>Total Hours</td>
</tr>
<tr>
<td></td>
<td>Course requirements for students with no concentration</td>
</tr>
</tbody>
</table>

University Core Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Principles Of Biology I and Laboratory Biology I</td>
</tr>
<tr>
<td>3</td>
<td>Intro Biology Non Maj II</td>
</tr>
<tr>
<td>3</td>
<td>Life Span Human Development</td>
</tr>
<tr>
<td>3</td>
<td>Intro To Psychology</td>
</tr>
<tr>
<td>41-58</td>
<td>Select an existing concentration or propose a personalized concentration</td>
</tr>
<tr>
<td>51-68</td>
<td>Total Hours</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Life Span Human Development</td>
</tr>
<tr>
<td>3</td>
<td>Child Dev-Infancy/Todlr</td>
</tr>
<tr>
<td>3</td>
<td>Child Dev-Preschool</td>
</tr>
<tr>
<td>3</td>
<td>Senior Seminar</td>
</tr>
<tr>
<td>6</td>
<td>Early Childhood Ed Internship</td>
</tr>
<tr>
<td>3</td>
<td>Dev Persp Young Child W/ Disab</td>
</tr>
<tr>
<td>3</td>
<td>Elem Statistical Methods</td>
</tr>
<tr>
<td>3</td>
<td>Educational Statistics</td>
</tr>
<tr>
<td>3</td>
<td>Adult Development</td>
</tr>
<tr>
<td>3</td>
<td>Admin Child Centers &amp; Programs</td>
</tr>
<tr>
<td>3</td>
<td>Addiction and the Family</td>
</tr>
<tr>
<td>2</td>
<td>Interpersonal Relationships</td>
</tr>
<tr>
<td>3</td>
<td>Program Evaluation</td>
</tr>
<tr>
<td>3</td>
<td>Human Sexuality Sex Education</td>
</tr>
<tr>
<td>3</td>
<td>Children And Divorce</td>
</tr>
<tr>
<td>12</td>
<td>Select four of the following</td>
</tr>
<tr>
<td>3</td>
<td>Juvenile Delinquency</td>
</tr>
<tr>
<td>3</td>
<td>Juvenile Delinquency</td>
</tr>
<tr>
<td>3</td>
<td>Indiv Family Resourc Mgt</td>
</tr>
<tr>
<td>3</td>
<td>Family &amp; Consumer Law</td>
</tr>
<tr>
<td>3</td>
<td>Drug Awareness Education</td>
</tr>
<tr>
<td>3</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>3</td>
<td>Dev Persp Young Child W/ Disab</td>
</tr>
<tr>
<td>48</td>
<td>Total Hours</td>
</tr>
</tbody>
</table>
Concentrations

Concentration in Family Life Education and Advocacy

The concentration in family life education and advocacy provides an understanding of the development of the family system, the dynamics of family relationships and their bidirectional influence on family members. Students who earn a grade of C or better in each course in the program are eligible to apply for certification as a family life educator by the National Council on Family Relations. This concentration prepares students to plan and implement programs in parent education, relationship/marriage education and human sexuality education. Graduates work in a variety of settings, such as industry, family service agencies, mental health agencies, churches, nursing homes and schools. This concentration currently does not lead to certification. This concentration is also well-suited for students interested in pursuing government and military programs, a graduate degree in marriage and family therapy, as well as other fields that serve children and families.

Each student completing the family life education and advocacy concentration must have a cumulative grade point average of 2.0 or higher in both HD and UA coursework before enrolling in HD 497 Family Studies Internship. Most internship opportunities require a minimum cumulative and HD GPA of 2.5. Students should contact the internship coordinator for further information.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSM 201</td>
<td>Indiv Family Resourc Mgt</td>
<td>3</td>
</tr>
<tr>
<td>HD 202</td>
<td>Child Dev-Infancy/Todlr</td>
<td>3</td>
</tr>
<tr>
<td>HD 205</td>
<td>Child Dev-Preschool</td>
<td>3</td>
</tr>
<tr>
<td>HD 262</td>
<td>Marriage And Family</td>
<td>3</td>
</tr>
<tr>
<td>HD 302</td>
<td>Child Dev-Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>HD 382</td>
<td>Parent And Family Devt</td>
<td>3</td>
</tr>
<tr>
<td>HD 462</td>
<td>Interpersonal Relationships</td>
<td>3</td>
</tr>
<tr>
<td>HD 472</td>
<td>Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HD 475</td>
<td>Human Sexuality Sex Education</td>
<td>3</td>
</tr>
<tr>
<td>HD 483</td>
<td>Methods Family Life Education</td>
<td>3</td>
</tr>
<tr>
<td>HD 488</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
<tr>
<td>HD 497</td>
<td>Family Life Ed Adv Internship</td>
<td>6</td>
</tr>
<tr>
<td>PY 211 or</td>
<td>Elem Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>BER 345</td>
<td>Educational Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- CSM 430 or Family & Consumer Law 3
- HD 480 or Children And Divorce 3

Total Hours 44

Concentration in Adolescence and Youth Development

The adolescence and youth development concentration is planned for students who wish to study and work with children and youth in health care settings. The curriculum consists of a comprehensive foundation of courses related to the growth and development of the healthy child as well as children with illnesses. Through specific courses, students participate in laboratory and practicum experiences with children. These experiences, along with the theoretical information, provide a foundation necessary for working with hospitalized children and their families. This curriculum enables a student to become a candidate for the national certification exam administered by the Child Life Certifying Committee of the National Child Life Council. Students must make application to the child life program after completion of 60–90 hours with at least 12 hours of HD courses. Acceptance and retention in the program are determined by:

- satisfactory recommendation by HD faculty committee
- cumulative grade point average (GPA) of at least 2.5 and a GPA of 2.5 or above in HD courses (each student enrolled in the child life concentration must have a GPA of 2.5 or higher in human development coursework before enrolling in HD 496 Child Life Internship)

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 215</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BSC 216</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>HD 202</td>
<td>Child Dev-Infancy/Todlr</td>
<td>3</td>
</tr>
<tr>
<td>HD 203</td>
<td>Medical Terminology</td>
<td>2</td>
</tr>
<tr>
<td>HD 205</td>
<td>Child Dev-Preschool</td>
<td>3</td>
</tr>
<tr>
<td>HD 302</td>
<td>Child Dev-Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>HD 321</td>
<td>Concp Creat Exper Young Child</td>
<td>3</td>
</tr>
<tr>
<td>HD 322</td>
<td>Conc Creat Exper Yng Child II</td>
<td>3</td>
</tr>
<tr>
<td>HD 382</td>
<td>Parent And Family Devt</td>
<td>3</td>
</tr>
<tr>
<td>HD 422</td>
<td>Admin Child Centers &amp; Programs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>41</td>
</tr>
</tbody>
</table>
Concentration in Child Development Practitioners

The Child Development Practitioners concentration is solely for those who work in Head Start agencies. The concentration provides an understanding of the growth and development of children from birth to eight years of age and prepares students to guide children through one of the most important developmental stages. Students will learn how to design, implement and evaluate programs for children in preschool programs. The knowledge and skills students gain through this program prepare then to teach children and families to solve life problems and successfully interact with others. A unique feature of the Child Development Practitioner concentration is that students can apply for prior learning credit, which allows their work experience to count toward their degree.

If you are not currently working or planning to work in a Head Start agency, you may consider the Early Childhood Education Major.

Types of Jobs Accepted

Family Studies graduates find jobs as family relationships/parenting educators in businesses, mental health agencies and community or church-related programs. Child Life graduates work in hospitals, outpatient clinics and large pediatric practices. Adolescent and Youth graduates work in private clinics, human service organizations, community-sponsored programs or with youth groups in churches, synagogues and other privately funded organizations.

Jobs of Experienced Alumni

teachers, administrators, community service providers, social services representative, travel agent, teen mom program director, child life specialist in a research hospital, adult or child daycare provider, consumer protection agent, business manager, writer/editor of children's books, parent counselor, hospice manager, State Department of Education staff member, women's protective agency, State Department of Human Resources staff member, State Department of Children's Affairs staff member and child/family advocate

Learn more about opportunities in this field at the Career Center

Sample Curriculum for the Human Development and Family Studies Major

Freshman Year

HD 101  Life Span Human Development 3
Select one of the following:
EN 101  English Composition 3
EN 102  and English Composition 3
EN 103  Advanced English Composition 3
HES 100  Freshman Compass Human Env Sci 3
Select one of the following:
BSC 109  Intro Biology Non Maj II 4
BSC 114/115  Principles Of Biology I 3-4
Computer Science (C) or foreign language (FL) 3-4
Math (MA) 3
PY 101  Intro To Psychology 3
History (HI) and social and behavioral sciences (SB) 6
Total Hours 28-32

Sophomore Year

HD 202  Child Dev-Infancy/Todlr 3
HD 205  Child Dev-Preschool 3
Computer science (C) or foreign language (FL) 3-4
Natural science (N) 4
Humanities (HU) and fine arts (FA) 12
Human development elective or concentration courses 6
Total Hours 31-32

Junior Year

HD 302  Child Dev-Adolescence 3
HD 382  Parent And Family Devt 3
PY 211 or  Elem Statistical Methods 3
BER 345  Educational Statistics 3
Human development electives 6-9
Elective 6
Concentration or minor 12
Total Hours 33-36

Senior Year

HES 310  Issues Human Envir Sciences 3
HD internship, if applicable. 6-12
HD 472  Program Evaluation 3
HD 488  Senior Seminar 2
Concentration or minor 6
Electives 9
Total Hours 29-35

Human Development and Family Studies, Minor

Office: 214 CDRC
Admission into the Minor

Students who choose to declare a minor must meet with an advisor in the minor department. Students should complete the Change of Major/Minor Application online under the Student tab of myBama before or during the third year of full-time enrollment.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD 202 Child Dev-Infancy/Todir</td>
<td>3</td>
</tr>
<tr>
<td>HD 205 Child Dev-Preschool</td>
<td>3</td>
</tr>
<tr>
<td>HD 302 Child Dev-Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>HD 382 Parent And Family Devt</td>
<td>3</td>
</tr>
<tr>
<td>HD 462 Interpersonal Relationships</td>
<td>3</td>
</tr>
<tr>
<td>Select three hours of HD elective 300 or 400 level</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor the student has attempted at UA. Please see the Grades and Grade Points (p. 885) section of this catalog for an explanation on grade point average calculations.

Department of Human Nutrition and Hospitality Management

It is important for students to obtain the list of specific courses to be taken each semester from the department. Many of the courses in the major must be taken in a prescribed sequence, and most are offered only once each year.

• Majors
  • Food and Nutrition (BS) (p. 1177)
  • Hospitality Management (BS) (p. 1181)

• Minor
  • Food and Nutrition (p. 1180)

The University Club

On April 1, 2012 the College of Human Environmental Sciences assumed the day-to-day leadership and management functions of The University Club, located on Queen City Avenue near downtown Tuscaloosa. Students in the restaurant, hotel, and meetings management program rotate through the club to gain “real world, hands-on” experiences. Students taking RHM 375, Managing Catering Operations, have the opportunity to host catered events at The University Club in both fall and spring semesters. Student learning is enhanced with opportunities to acquire knowledge in the classroom and apply that knowledge in a living laboratory.

The University Club was built on land reserved in 1819 by the Congress of the United States as part of a donation to endow “a seminary of learning” for the state of Alabama. In 1834 the current home was constructed by James Dearing, a steamboat captain and member of the Alabama Legislature. The home was occupied by Governor Arthur P. Bagby from 1834-1841 while he was governor of Alabama. The home was presented to The University of Alabama in 1944 by the Herbert David Warner and Mildred Westervelt Warner family to be used as a social center for faculty and staff.

NHM101 Intro Human Nutrition
Hours 3
Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

RHM105 Nutrition for Hospitality Man.
Hours 3
Lecture and discussion introducing students to nutrition principles to evaluate and modify menus and recipes, as well as respond knowledgably to customers questions and needs.
Prerequisite(s): RHM 175
View All Courses

Faculty
Chair
Lawrence, Jeannine

Professor
Meyer, Mary Kay

Associate Professors
Crowe-White, Kristi
Knol, Linda
Lawrence, Jeannine
Severt, Kimberly

Assistant Professors
Azrad, Maria
Boyle, Kimberly
Chen, Hsiangting "Shatina"
Douglas, Joy
Ellis, Amy
Hylton, Tiffany
Jung, Seung Eun
Kong, Lingyan
Niuh, Alvin
Park, Han-A
Shin, Yeon Ho
Stran, Kimberly
Tan, Libo

Instructors
Blakey, Carla
Blumenthal, Jason
Bridgewater, Diane
DeSalvo, Denise
Greene, Lori
McMahon, Shannon
Milstead, Sarah "Morgan"

University Club
Dean, Angelique
Food and Nutrition, BS

Food and nutrition students typically have an aptitude for science; a concern for people; the ability to plan and direct programs; and a strong interest in food, nutrition, and health.

Office: 403 Russell Hall

The curriculum of the food and nutrition major is designed to prepare students for careers in health care facilities, community-health-nutrition programs, food-service management, and business. The major offers two routes to registration as a dietitian: a didactic program in dietetics (DPD) and a coordinated program in dietetics (CPD), both of which are accredited by the Accreditation Council for Education in Nutrition and Dietetics. The DPD prepares students to apply for dietetic internships in order to be eligible to take the registration examination for dietitians. Students who complete the CPD are eligible to take the registration examination after graduation. A third option, the nutrition sciences major, is designed for students who plan to attend medical school or other advanced health professions program.

Students who have completed 90 hours of undergraduate work with a 3.5 GPA overall are eligible to apply to the Accelerated Master's Program (AMP). If accepted, then up to 15 graduate credit hours of the 30 hour Master's program could be taken as cross-listed courses or would substitute for required undergraduate coursework while finishing the undergraduate degree. Any coursework taken in this manner would apply toward both the undergraduate degree and a master's degree at The University of Alabama.

The Commission on Dietetic Registration (CDR) will change the entry-level registration eligibility requirements for dietitians, beginning in 2024, from a baccalaureate degree to a minimum of a graduate degree. All other entry-level dietitian registration eligibility requirements remain the same.

All students in the coordinated or didactic program in dietetics follow the same plan of study for the first 66 or 68 hours. In the fall semester of the junior year, students either apply to the coordinated program or the didactic program focused areas of study. Regardless of the focused area chosen, all students complete the required courses listed below:

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER 345</td>
<td>Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BSC 215</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BSC 216</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BSC 242</td>
<td>Microbiology And Man</td>
<td>4</td>
</tr>
<tr>
<td>CH 104</td>
<td>Introductory Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 105</td>
<td>Introductory Org Chem</td>
<td>4</td>
</tr>
<tr>
<td>HES 100 or 103</td>
<td>Freshman Compass Human Env Sci</td>
<td>3</td>
</tr>
<tr>
<td>HES 310</td>
<td>Issues Human Envir Sciences</td>
<td>3</td>
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<tr>
<td>NHM 101</td>
<td>Intro Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 195</td>
<td>Intro Dietetics Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NHM 201</td>
<td>Nutrition In Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>NHM 253</td>
<td>Food Science</td>
<td>3</td>
</tr>
<tr>
<td>NHM 340</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 361</td>
<td>Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NHM 362</td>
<td>Nutrition At Cell Level</td>
<td>3</td>
</tr>
<tr>
<td>NHM 363</td>
<td>Applied Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 365</td>
<td>Med Nutr Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>NHM 372</td>
<td>Intro Food Service Mgt</td>
<td>3</td>
</tr>
<tr>
<td>NHM 373</td>
<td>Purchsg Design Risk Mgt Food S</td>
<td>3</td>
</tr>
<tr>
<td>NHM 374</td>
<td>Quant Food Prod &amp; Servc</td>
<td>3</td>
</tr>
<tr>
<td>NHM 395 or 295</td>
<td>Intro Research Food Nutr</td>
<td>1</td>
</tr>
<tr>
<td>NHM 441</td>
<td>Nutrition Education</td>
<td>2</td>
</tr>
<tr>
<td>NHM 442</td>
<td>Nutrition Care Process</td>
<td>1</td>
</tr>
<tr>
<td>NHM 454</td>
<td>Experimental &amp; Functional Food</td>
<td>3</td>
</tr>
<tr>
<td>NHM 465</td>
<td>Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>NHM 475</td>
<td>Mgt Food Service Systems</td>
<td>3</td>
</tr>
<tr>
<td>NHM 491</td>
<td>Directed Professional Study</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>Intro To Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 82

1. HES 103 Distance Compass HES is for Distance Learning Students Only. It is not required for transfer students.

### Focused Areas of Study

#### Coordinated Program in Dietetics

The coordinated program in dietetics (CPD) provides students with both the required knowledge and supervised practice experiences to be eligible to sit for the national examination to become a registered dietitian (RD). The University of Alabama CPD provides a concentration and culminating experience in dietetics management and communication. Students in the CPD take the courses required of all food and nutrition majors plus an additional seven courses (17 hours) in which they apply the theories presented in these courses through experiences in food service and health care facilities, as well as health promotion programs. Students interested in completing the CPD should apply at the beginning of the junior year during the fall admission period. A second opportunity for admission is available at the end of the junior year during the spring admission period. Application forms are available from the department. Admission to the CPD is limited. Applications will be reviewed and recommended by the committee on admissions of the Department of Human Nutrition and Hospitality Management. Criteria for admission include the following:

- The student must present a cumulative grade point average of at least 3.0 and must have completed the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 215</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BSC 216</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CH 104</td>
<td>Introductory Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH 105</td>
<td>Introductory Org Chem</td>
<td>4</td>
</tr>
<tr>
<td>EN 101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 101</td>
<td>Intro Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 195</td>
<td>Intro Dietetics Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NHM 201</td>
<td>Nutrition In Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>NHM 253</td>
<td>Food Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 32

- A pretest covering material from the above prerequisite courses is part of the admission process. The score on the pretest is considered by the committee on admissions.
To enter the Didactic Program in Dietetics (DPD) a student must:

- Be eligible to enter a dietetic internship.
- Have completed a minimum of 60 semester hours, including:
  - Earn a minimum of B- or higher in all "NHM designated" food and nutrition courses including
    - Introductory Organic Chemistry (NHM designated and BER 345), or 1 retake in up to two different DPD Professional Courses (excluding original attempt) to earn the required grade.
  - Have an overall GPA of 3.0 or higher.
  - Submit a completed "DPD Admission Petition Form":
    - for On-campus students to the DPD Director (at 424 Russell Hall)
    - for Distance students to the student’s Academic Advisor, mail to: P.O. Box 870311, Tuscaloosa, AL 35487-0311

To complete and meet all DPD requirements and receive a Verification Statement, a student:

- must maintain an overall GPA of 3.0 or higher.
- must earn a minimum of C - in the following courses: BSC 215 Human Anatomy & Physiology I, BSC 216 Human Anatomy & Physiology II and BSC 242 Microbiology And Man; CH 104 Introductory Chemistry and CH 105 Introductory Org Chem; PHY 101 Intro To Psychology;
- must earn a minimum of B- or higher in all "NHM designated" food and nutrition courses including BER 345 Educational Statistics (or equivalent).
- may only have a total of 2 retakes in one DPD Professional Course (NHM designated and BER 345), or 1 retake in up to two different DPD Professional Courses (excluding original attempt) to earn the required grade.
- must complete the courses required for the DPD, and/or complete a bachelor's degree

**Didactic Program in Dietetics**

The didactic program in dietetics (DPD) provides students with the required knowledge to apply for a dietetic internship. Upon successful completion of the DPD, students receive a verification statement indicating that they are eligible to enter a dietetic internship. Students in the DPD take the courses required of all food and nutrition majors plus NHM 492 Prepare Dietetic Internship (offered on campus only).

To enter the Didactic Program in Dietetics (DPD) a student must:

- Have completed a minimum of 60 semester hours including:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 101 Intro Human Nutrition</td>
</tr>
<tr>
<td>1</td>
<td>NHM 195 Intro Dietetics Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NHM 201 Nutrition In Life Cycle</td>
</tr>
<tr>
<td>3</td>
<td>NHM 253 Food Science</td>
</tr>
<tr>
<td>4</td>
<td>CH 104 Introductory Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 105 Introductory Org Chem</td>
</tr>
<tr>
<td>4</td>
<td>BSC 215 Human Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>4</td>
<td>BSC 216 Human Anatomy &amp; Physiology II</td>
</tr>
</tbody>
</table>

Total Hours 26

**Nutrition Sciences Concentration for Food and Nutrition Majors**

The nutrition sciences concentration is designed for students planning to attend medical school or other advanced health professions programs and who wish to have a strong foundation in food and nutrition sciences. This concentration does not meet the requirements to become a registered dietitian. Students who choose to meet both the requirements for medical school/an advanced health professions program and for registration as a dietitian should work with an adviser to add the necessary courses to this curriculum. Applications to medical school or advanced health professional programs should be completed approximately one year prior to the expected date of enrollment. Students should coordinate those applications through the Health Professions Advising Office in the College of Arts and Sciences.

**Additional Courses Typically Required for Premedical Education**

Please consult with the Health Professions Advising Office in the College of Arts and Sciences for program-specific coursework required.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>BSC 114 Principles Of Biology I</td>
</tr>
<tr>
<td>4</td>
<td>BSC 115 &amp; BSC 117 Principles Biology I</td>
</tr>
<tr>
<td>3</td>
<td>CH 232 Elem Organic Chem II</td>
</tr>
<tr>
<td>2</td>
<td>CH 237 Elem Organic Chem Lab</td>
</tr>
<tr>
<td>3</td>
<td>MATH 115 Precalc Algebra &amp; Trig</td>
</tr>
<tr>
<td>4</td>
<td>MATH 125 Calculus I</td>
</tr>
<tr>
<td>4</td>
<td>PH 101 General Physics I</td>
</tr>
<tr>
<td>4</td>
<td>PH 102 General Physics II</td>
</tr>
</tbody>
</table>

Total Hours 28

**Undergraduate Catalog**

- Please see the Director of the Coordinated Program in Dietetics for more information regarding admission requirements to the CPD, as the requirements may change in order to maintain accreditation and registration eligibility requirements.
- Please refer to the current CPD handbook for CPD continuation and completion policies.

Students who choose the coordinated program in dietetics must also take:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 366 Supv Prac Med Nutr Therapy I</td>
</tr>
<tr>
<td>3</td>
<td>NHM 390 Pract Food Service Mgt I</td>
</tr>
<tr>
<td>1</td>
<td>NHM 464 Supv Pract Commun Nutr</td>
</tr>
<tr>
<td>3</td>
<td>NHM 466 Sup Pract Med Nutr Therapy II</td>
</tr>
<tr>
<td>3</td>
<td>NHM 467 Sup Prac Longterm Care</td>
</tr>
<tr>
<td>2</td>
<td>NHM 476 Pract Food Serv Mgt II</td>
</tr>
<tr>
<td>3</td>
<td>NHM 485 Sup Prac in Dic Mgmt</td>
</tr>
</tbody>
</table>

Total Hours 18

The nutrition sciences concentration for food and nutrition majors provides students with the required knowledge to apply for a dietetic internship. Upon successful completion of the nutrition sciences concentration, students receive a verification statement indicating that they are eligible to enter a dietetic internship. Students in the nutrition sciences concentration take the courses required of all food and nutrition majors plus NHM 492 Prepare Dietetic Internship (offered on campus only).

To enter the nutrition sciences concentration (NSP) a student must:

- Have completed a minimum of 60 semester hours including:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 101 Intro Human Nutrition</td>
</tr>
<tr>
<td>1</td>
<td>NHM 195 Intro Dietetics Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NHM 201 Nutrition In Life Cycle</td>
</tr>
<tr>
<td>3</td>
<td>NHM 253 Food Science</td>
</tr>
<tr>
<td>4</td>
<td>CH 104 Introductory Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 105 Introductory Org Chem</td>
</tr>
<tr>
<td>4</td>
<td>BSC 215 Human Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>4</td>
<td>BSC 216 Human Anatomy &amp; Physiology II</td>
</tr>
</tbody>
</table>

Total Hours 26

- Earn a minimum of C - in the following courses: BSC 215 Human Anatomy & Physiology I, BSC 216 Human Anatomy & Physiology II and BSC 242 Microbiology And Man; CH 104 Introductory Chemistry and CH 105 Introductory Org Chem; PHY 101 Intro To Psychology;
- Earn a minimum of B- in all "NHM designated" courses including BER 345 Educational Statistics or equivalent.
- Have an overall GPA of 3.0 or higher.
- Submit official transcripts of all work taken at another institution to the DPD Director.
- Submit a completed “DPD Admission Petition Form”:
  - for On-campus students to the DPD Director (at 424 Russell Hall)
  - for Distance students to the student’s Academic Advisor, mail to: P.O. Box 870311, Tuscaloosa, AL 35487-0311

To complete and meet all DPD requirements and receive a Verification Statement, a student:

- must maintain an overall GPA of 3.0 or higher.
- must complete the courses required for the DPD, and/or complete a bachelor's degree

**Undergraduate Catalog**

- Please see the Director of the Coordinated Program in Dietetics for more information regarding admission requirements to the CPD, as the requirements may change in order to maintain accreditation and registration eligibility requirements.
- Please refer to the current CPD handbook for CPD continuation and completion policies.

Students who choose the coordinated program in dietetics must also take:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 366 Supv Prac Med Nutr Therapy I</td>
</tr>
<tr>
<td>3</td>
<td>NHM 390 Pract Food Service Mgt I</td>
</tr>
<tr>
<td>1</td>
<td>NHM 464 Supv Pract Commun Nutr</td>
</tr>
<tr>
<td>3</td>
<td>NHM 466 Sup Pract Med Nutr Therapy II</td>
</tr>
<tr>
<td>3</td>
<td>NHM 467 Sup Prac Longterm Care</td>
</tr>
<tr>
<td>2</td>
<td>NHM 476 Pract Food Serv Mgt II</td>
</tr>
<tr>
<td>3</td>
<td>NHM 485 Sup Prac in Dic Mgmt</td>
</tr>
</tbody>
</table>

Total Hours 18

The didactic program in dietetics (DPD) provides students with the required knowledge to apply for a dietetic internship. Upon successful completion of the DPD, students receive a verification statement indicating that they are eligible to enter a dietetic internship. Students in the DPD take the courses required of all food and nutrition majors plus NHM 492 Prepare Dietetic Internship (offered on campus only).

To enter the Didactic Program in Dietetics (DPD) a student must:

- Have completed a minimum of 60 semester hours including:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 101 Intro Human Nutrition</td>
</tr>
<tr>
<td>1</td>
<td>NHM 195 Intro Dietetics Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NHM 201 Nutrition In Life Cycle</td>
</tr>
<tr>
<td>3</td>
<td>NHM 253 Food Science</td>
</tr>
<tr>
<td>4</td>
<td>CH 104 Introductory Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>CH 105 Introductory Org Chem</td>
</tr>
<tr>
<td>4</td>
<td>BSC 215 Human Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>4</td>
<td>BSC 216 Human Anatomy &amp; Physiology II</td>
</tr>
</tbody>
</table>

Total Hours 26

- Earn a minimum of C - in the following courses: BSC 215 Human Anatomy & Physiology I, BSC 216 Human Anatomy & Physiology II and BSC 242 Microbiology And Man; CH 104 Introductory Chemistry and CH 105 Introductory Org Chem; PHY 101 Intro To Psychology;
- Earn a minimum of B- in all "NHM designated" courses including BER 345 Educational Statistics or equivalent.
- Have an overall GPA of 3.0 or higher.
- Submit official transcripts of all work taken at another institution to the DPD Director.
- Submit a completed “DPD Admission Petition Form”:
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  - for Distance students to the student’s Academic Advisor, mail to: P.O. Box 870311, Tuscaloosa, AL 35487-0311

To complete and meet all DPD requirements and receive a Verification Statement, a student:

- must maintain an overall GPA of 3.0 or higher.
Clinical nutrition in the hospital and long-term care settings, Department of Public Health, private consulting businesses and industries, performance nutrition, the Child Nutrition Program in elementary through high school, food service management, food sales, food service equipment sales.

Types of Jobs Accepted
Our graduates accept positions such as clinical nutrition manager, certified nutrition support specialist (CNSS), board certified specialist in sports dietetics (CSSD), child nutrition specialist, lactation consultant.

Jobs of Experienced Alumni
Our alumni serve in positions such as a food editor at myRecipes.com; founder, Computrition and focusGreen; regional manager, Frito-Lay Corporation; account manager, Nestle Corporation.

Learn more about opportunities in this field at the Career Center

Sample Curriculum for the Food and Nutrition Major

All Food and Nutrition Majors Completing CPD or DPD

Freshman Year

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES 100 Freshman Compass Human Env Sci (Or) 3</td>
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<td>HES 103 Distance Compass HES (Distance Learning Students Only) 3</td>
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<td>NHM 101 Intro Human Nutrition 3</td>
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<tr>
<td>NHM 195 Intro Dietetics Nutrition 1</td>
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<tr>
<td>CH 104 Introductory Chemistry 8</td>
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<td>CH 105 &amp; Introductory Org Chem 8</td>
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<td>PY 101 Intro To Psychology 3</td>
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<td>EN 101 English Composition 3</td>
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<td>EN 102 or 3-6 English Composition 3-6</td>
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<td>EN 103 Advanced English Composition 3</td>
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<tr>
<td>Humanities (HU) or Fine Arts (FA) 3</td>
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<tr>
<td>Mathematics (MA) 3</td>
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<td>Total Hours 27-30</td>
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Sophomore Year

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>BSC 215 Human Anatomy &amp; Physiology I 8</td>
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<tr>
<td>&amp; BSC 216 and Human Anatomy &amp; Physiology II 8</td>
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<td>NHM 201 Nutrition In Life Cycle 3</td>
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<tr>
<td>NHM 253 Food Science 3</td>
</tr>
<tr>
<td>Computer science (C) or foreign language (FL ) 6-8</td>
</tr>
<tr>
<td>Statistics 3</td>
</tr>
<tr>
<td>Humanities (HU) or Fine Arts (FA) or Literature (L) 3</td>
</tr>
<tr>
<td>NHM 372 Intro Food Service Mgt 3</td>
</tr>
<tr>
<td>NHM 395 or 1 Intro Research Food Nutr</td>
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<tr>
<td>NHM 295 Intro Research Food Nutr 1</td>
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<tr>
<td>Total Hours 30-32</td>
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</table>

DPD Focused Area of Study

Junior Year

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHM 340 Community Nutrition 3</td>
</tr>
<tr>
<td>NHM 361 Nutritional Biochemistry 3</td>
</tr>
<tr>
<td>NHM 362 Nutrition At Cell Level 3</td>
</tr>
<tr>
<td>NHM 363 Applied Nutrition 3</td>
</tr>
<tr>
<td>NHM 365 Med Nutr Therapy I 3</td>
</tr>
<tr>
<td>NHM 373 Purchasing Design Risk Mgt Food S 3</td>
</tr>
<tr>
<td>NHM 374 Quant Food Prod &amp; Servc 3</td>
</tr>
<tr>
<td>NHM 441 Nutrition Education 2</td>
</tr>
<tr>
<td>NHM 442 Nutrition Care Process 1</td>
</tr>
<tr>
<td>History or Social behavioral science (H/SB) 3</td>
</tr>
<tr>
<td>Humanities (HU) or Fine Arts (FA) or Literature (L) 3</td>
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<tr>
<td>Total Hours 30</td>
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</table>

Senior Year

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHM 491 Directed Professional Study (Summer practicum course, taken between junior and senior year) 3</td>
</tr>
<tr>
<td>HES 310 Issues Human Envir Sciences 3</td>
</tr>
<tr>
<td>NHM 454 Experimental &amp; Functional Food Science 3</td>
</tr>
<tr>
<td>NHM 465 Medical Nutrition Therapy II 3</td>
</tr>
<tr>
<td>Total Hours 36</td>
</tr>
</tbody>
</table>
NHM 475  Mgt Food Service Systems  3
NHM 492  Prepare Dietetic Internship  1
BSC 242  Microbiology And Man  4
Humanities (HU) or Fine Arts (FA) or Literature (L)  3
History (HI) or Social and behavioral sciences (SB)  3
History (HI)  3
Total Hours  29

**CPD Focused Area of Study**

**Sample CPD Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHM 361  Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NHM 362  Nutrition At Cell Level</td>
<td>3</td>
</tr>
<tr>
<td>NHM 363  Applied Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 365  Med Nutr Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>NHM 366  Supv Pract Med Nutr Therapy I</td>
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</tr>
<tr>
<td>NHM 373  Purchsg Design Risk Mgt Food S</td>
<td>3</td>
</tr>
<tr>
<td>NHM 374  Quant Food Prod &amp; Servc</td>
<td>3</td>
</tr>
<tr>
<td>NHM 390  Pract Food Service Mgt I</td>
<td>3</td>
</tr>
<tr>
<td>NHM 441  Nutrition Education</td>
<td>2</td>
</tr>
<tr>
<td>NHM 442  Nutrition Care Process</td>
<td>1</td>
</tr>
<tr>
<td>NHM 340  Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>History (HU) or Social behavioral science (SB)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>33</td>
</tr>
</tbody>
</table>

**Sample CPD Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHM 491  Directed Professional Study</td>
<td>3</td>
</tr>
<tr>
<td>NHM 454  Experimental &amp; Functional Food Science</td>
<td>3</td>
</tr>
<tr>
<td>NHM 464  Supv Pract Commun Nutr</td>
<td>1</td>
</tr>
<tr>
<td>NHM 465  Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>NHM 466  Sup Pract Med Nutr Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>NHM 467  Supervised Practice in Long-term Care</td>
<td>3</td>
</tr>
<tr>
<td>NHM 475  Mgt Food Service Systems</td>
<td>3</td>
</tr>
<tr>
<td>NHM 476  Pract Food Serv Mgt II</td>
<td>2</td>
</tr>
<tr>
<td>NHM 485  Sup Prac in Dic Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>HES 310  Issues Human Envir Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU) or Fine art (FA) or Literature (L)</td>
<td>3</td>
</tr>
<tr>
<td>History (HI)</td>
<td>3</td>
</tr>
<tr>
<td>History (HI) and social and behavioral sciences (SB)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

**Sample Curriculum for the Nutrition Sciences Concentration for Food and Nutrition Majors**

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES 100  Freshman Compass Human Env Sci</td>
<td>3</td>
</tr>
<tr>
<td>EN 101  English Composition</td>
<td>6</td>
</tr>
<tr>
<td>&amp; EN 102  and English Composition</td>
<td>3</td>
</tr>
<tr>
<td>CH 101  General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>&amp; CH 102  and General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>NHM 195  Intro Dietetics Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NHM 101  Intro Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PY 101  Intro To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU) or Fine Arts (FA) or Literature (L)</td>
<td>6</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>33</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 231  Elem Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BSC 215  Human Anatomy &amp; Physiology I</td>
<td>8</td>
</tr>
<tr>
<td>&amp; BSC 216  and Human Anatomy &amp; Physiology II</td>
<td>10</td>
</tr>
<tr>
<td>NHM 201  Nutrition In Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (HU) or Fine Arts (FA) or Literature (L)</td>
<td>6</td>
</tr>
<tr>
<td>History (HI) or Social and Behavioral Sciences (SB)</td>
<td>9</td>
</tr>
<tr>
<td>NHM 253  Food Science</td>
<td>3</td>
</tr>
<tr>
<td>NHM 395 or  Intro Research Food Nutr</td>
<td>1</td>
</tr>
<tr>
<td>NHM 295  Intro Research Food Nutr</td>
<td>1</td>
</tr>
<tr>
<td>Total Hours</td>
<td>33</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHM 361  Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NHM 362  Nutrition At Cell Level</td>
<td>3</td>
</tr>
<tr>
<td>NHM 363  Applied Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NHM 365  Med Nutr Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>NHM 441  Nutrition Education</td>
<td>2</td>
</tr>
<tr>
<td>NHM 442  Nutrition Care Process</td>
<td>1</td>
</tr>
<tr>
<td>Computer or Foreign Language</td>
<td>6-8</td>
</tr>
<tr>
<td>Electives (choose courses to meet premed/advanced health program requirements)</td>
<td>3</td>
</tr>
<tr>
<td>NHM 340  Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>27-29</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHM 465  Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>HES 310  Issues Human Envir Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Electives (choose courses to meet premed/advanced health program requirements)</td>
<td>15</td>
</tr>
<tr>
<td>NHM 491  Directed Professional Study (Only taught in Summer)</td>
<td>3</td>
</tr>
<tr>
<td>NHM 454  Experimental &amp; Functional Food Science</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>27</td>
</tr>
</tbody>
</table>

**Food and Nutrition, Minor**

Office: 101 Doster Hall

**Admission into the Minor**

A minor in food and nutrition is offered by the department and requires 18 hours, including NHM 101 Intro Human Nutrition and NHM 201 Nutrition In Life Cycle. The remaining hours are determined in consultation with an academic advisor. To fulfill natural science requirements, students are encouraged to take introductory chemistry and introductory organic chemistry.

Students are expected to formally declare a minor. With the assistance of an advisor in the minor department, students should complete the Major/Minor Application online under the Student tab of myBama before or during the third year of full-time enrollment.
for a career in restaurant, commercial, and institutional food-service operations; hotel and lodging operations and management; and/or convention, meetings, and event marketing and management.

Students must complete a 500-hour work practicum or internship in a hospitality organization. Students may also select a concentration in:
- Restaurant/food and beverage management
- Hotel/lodging management
- Meetings/event planning

Students may complete requirements for the Manage First Professional (MFP) certification available from the Educational Foundation of the National Restaurant Association and/or the Certified Hospitality Supervisor (CHS) certification or the Certification in Hotel Industry Analytics (CHIA) available from the Educational Institute of the American Hotel and Lodging Association.

The hospitality management major is offered through the traditional on-campus setting (all concentrations) or via distance education with no concentration. Students who have completed 90 hours of undergraduate work with a 3.5 GPA overall are eligible to apply to the Accelerated Master’s Program (AMP). If accepted, then up to 15 graduate credit hours of the 30 hour master’s program could be taken as cross-listed courses or would substitute for required undergraduate coursework while finishing the undergraduate degree. Any coursework taken in this manner would apply towards both the undergraduate degree and a master’s degree at The University of Alabama.

### Campus Education Hospitality Management Curriculum

Students must file a plan of study for their concentration with the department office within the first semester of the sophomore year. The plan of study must be approved by the student’s academic advisor. Students choosing a concentration in restaurant/food and beverage, hotel/lodging, or meetings/event must take the required classes mandated by their chosen concentration.

### Distance Education Hospitality Management Program

Students completing the Hospitality Management program via distance education must complete the Hospitality Management Core Courses and the additional courses to meet the 120 hours requirement. The student’s academic advisor will assist in selecting appropriate online courses to fulfill academic requirements. Students may fulfill degree requirements for the Hospitality Management major entirely online.

### Hospitality Management

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>RHM 175 Intro to Hospitality Mgt</td>
</tr>
<tr>
<td>3</td>
<td>RHM 241 Mgt Of Food/Beverage Operation</td>
</tr>
<tr>
<td>3</td>
<td>NHM 250 or Principles of Food Preparation</td>
</tr>
<tr>
<td>3</td>
<td>NHM 253 Food Science</td>
</tr>
<tr>
<td>3</td>
<td>RHM 251 Hospitality Employee Suprv/Mgt</td>
</tr>
<tr>
<td>3</td>
<td>RHM 274 Basic Accounting in the Hospitality Industry</td>
</tr>
<tr>
<td>3</td>
<td>RHM 303 Mgn Quality In Hosp Industry</td>
</tr>
<tr>
<td>3</td>
<td>RHM 321 Tourism &amp; Hospitality Industry</td>
</tr>
<tr>
<td>3</td>
<td>RHM 421 Hospitality Law</td>
</tr>
<tr>
<td>3</td>
<td>RHM 469 Internship Hospitality Managem</td>
</tr>
<tr>
<td>3</td>
<td>RHM 470 Hospitality Computer Systems</td>
</tr>
<tr>
<td>3</td>
<td>RHM 474 Mangr Acct Hospitality Industr</td>
</tr>
</tbody>
</table>

### Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

### Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.

### Ancillary Courses

This minor does not require ancillary courses.

### Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

### Hospitality Management, BS

Students selecting a hospitality management career generally thrive in an environment of assistance to others, personal accountability, and nontraditional work hours. The industry is ideal for individuals who are interested in customer service. Ability to work with diverse personalities, solve conflicts, and provide innovative leadership are key to a graduate’s success. This growing industry demands flexible hours from employees.

Office: 403 Russell Hall

The Hospitality Management curriculum offers a variety of courses designed to develop the skills and abilities required for a management career in the hospitality industry. The curriculum prepares students for a career in restaurant, commercial, and institutional food-service

### Suggested Courses

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 210 Dynamics Weight Control</td>
</tr>
<tr>
<td>3</td>
<td>NHM 250 Principles of Food Preparation</td>
</tr>
<tr>
<td>3</td>
<td>NHM 305 Vegetarian Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NHM 315 Nutrition For Performance</td>
</tr>
<tr>
<td>3</td>
<td>NHM 320 Food in Film</td>
</tr>
<tr>
<td>3</td>
<td>NHM 361 Nutritional Biochemistry</td>
</tr>
<tr>
<td>3</td>
<td>NHM 362 Nutrition At Cell Level</td>
</tr>
<tr>
<td>3</td>
<td>NHM 372 Intro Food Service Mgt</td>
</tr>
<tr>
<td>3</td>
<td>NHM 373 Purchsg Design Risk Mgt Food S</td>
</tr>
<tr>
<td>3</td>
<td>NHM 401 Nutrition Health Profesn</td>
</tr>
<tr>
<td>3</td>
<td>NHM 457 Childhood Obesity</td>
</tr>
</tbody>
</table>

### Minor Courses

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 101 Intro Human Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NHM 201 Nutrition In Life Cycle</td>
</tr>
<tr>
<td>9</td>
<td>Select three hours of NHM elective (200-400 level)</td>
</tr>
<tr>
<td>18</td>
<td>Total Hours</td>
</tr>
</tbody>
</table>

### Ancillary Courses

This minor does not require ancillary courses.

### Additional Minor Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be cleared for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

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### Suggested Courses

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>NHM 210 Dynamics Weight Control</td>
</tr>
<tr>
<td>3</td>
<td>NHM 250 Principles of Food Preparation</td>
</tr>
<tr>
<td>3</td>
<td>NHM 305 Vegetarian Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NHM 315 Nutrition For Performance</td>
</tr>
<tr>
<td>3</td>
<td>NHM 320 Food in Film</td>
</tr>
<tr>
<td>3</td>
<td>NHM 361 Nutritional Biochemistry</td>
</tr>
<tr>
<td>3</td>
<td>NHM 362 Nutrition At Cell Level</td>
</tr>
<tr>
<td>3</td>
<td>NHM 372 Intro Food Service Mgt</td>
</tr>
<tr>
<td>3</td>
<td>NHM 373 Purchsg Design Risk Mgt Food S</td>
</tr>
<tr>
<td>3</td>
<td>NHM 401 Nutrition Health Profesn</td>
</tr>
<tr>
<td>3</td>
<td>NHM 457 Childhood Obesity</td>
</tr>
</tbody>
</table>

### Grade Point Average

A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

### Upper-level Residency

A minimum of six hours of 300- or 400-level courses in the minor must be earned on this campus.
### Sample Curriculum for the Hospitality Management Majors

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHM 175</td>
<td>Intro to Hospitality Mgt</td>
<td>3</td>
</tr>
<tr>
<td>RHM 185</td>
<td>Intro Meetings Events Ind</td>
<td>3</td>
</tr>
<tr>
<td>RHM 285</td>
<td>Food Safety And Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>NHM 250</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>RHM 274</td>
<td>Basic Accounting in the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>RHM 241</td>
<td>Mgt Of Food/Beverage Operation</td>
<td>3</td>
</tr>
<tr>
<td>NHM 250</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>RHM 251</td>
<td>Hospitality Employee Suprv/Mgt</td>
<td>3</td>
</tr>
<tr>
<td>RHM 274</td>
<td>Basic Accounting in the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>RHM 285</td>
<td>Food Safety And Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>RHM 303</td>
<td>Mgn Quality In Hosp Industry</td>
<td>3</td>
</tr>
<tr>
<td>RHM 321</td>
<td>Tourism &amp; Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>RHM 375 or RHM 285</td>
<td>Managing Catering Operations</td>
<td>3</td>
</tr>
<tr>
<td>RHM 377</td>
<td>Restaurant Management &amp; Servic</td>
<td>3</td>
</tr>
<tr>
<td>RHM 465</td>
<td>Food And Beverage Controls</td>
<td>3</td>
</tr>
<tr>
<td>RHM 478</td>
<td>Mgt Service Food Bev Operation</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RHM 420</td>
<td>Hospitality Marketing</td>
<td>3</td>
</tr>
<tr>
<td>RHM 370</td>
<td>Event Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHM 325</td>
<td>Lodging Operations &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>RHM 332 or RHM 285</td>
<td>Front Office Management</td>
<td>3</td>
</tr>
<tr>
<td>RHM 375 or RHM 285</td>
<td>Managing Catering Operations</td>
<td>3</td>
</tr>
<tr>
<td>RHM 385</td>
<td>Event Lead. Prog. Prob Solving</td>
<td>3</td>
</tr>
<tr>
<td>RHM 420</td>
<td>Hospitality Marketing</td>
<td>3</td>
</tr>
<tr>
<td>RHM 450</td>
<td>Issues Hotel &amp; Lodg. Mgmt.</td>
<td>3</td>
</tr>
<tr>
<td>RHM 479</td>
<td>Convention Management &amp; Service</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>27-30</td>
</tr>
</tbody>
</table>

#### Distance Hospitality Management Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHM 175</td>
<td>Intro to Hospitality Mgt</td>
<td>3</td>
</tr>
<tr>
<td>RHM 185</td>
<td>Intro Meetings Events Ind</td>
<td>3</td>
</tr>
<tr>
<td>RHM 285</td>
<td>Food Safety And Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>NHM 374</td>
<td>Quant Food Prod &amp; Servc</td>
<td>3</td>
</tr>
<tr>
<td>RHM 420</td>
<td>Hospitality Marketing</td>
<td>3</td>
</tr>
<tr>
<td>RHM 421</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>RHM 469</td>
<td>Internship Hospitality Mangement</td>
<td>1</td>
</tr>
<tr>
<td>RHM 470</td>
<td>Hospitality Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>RHM 474</td>
<td>Mngr Acct Hospitality Industr</td>
<td>3</td>
</tr>
<tr>
<td>RHM 479</td>
<td>Convnion Management &amp; Servic</td>
<td>3</td>
</tr>
<tr>
<td>RHM 496</td>
<td>RHM Senior Capstone Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CSM 204</td>
<td>Intro Personl Finan Plan</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>56</td>
</tr>
</tbody>
</table>

#### Types of Jobs Accepted

Graduates are employed in restaurants, commercial and institutional food service, hotel and lodging properties, convention bureaus, convention centers, sporting event facilities management, catering businesses, cruise lines and country clubs. Graduates generally enter the field as management trainees, assistant managers or supervisors. The potential for advancement is excellent for dedicated individuals.

#### Jobs of Experienced Alumni

The hospitality industry offers many opportunities for growth and advancement based on individual performance and achievement. It is not unusual for students to be promoted into higher level positions within two to three years after graduation.

Learn more about opportunities in this field at the Career Center.
include a minimum of 35 hours of coursework offered by the College of Human Environmental Sciences.

- The proposal must demonstrate that the proposed program could not be better served by an existing major program within the College.
- At the time of submission, the proposal must include a statement of approval by a faculty advisor chosen from the area of specialization.
- The proposal must indicate that the student has examined the consequences of the proposed program in relation to career goals and post-graduation plans.

The minimum requirements for a degree in General Studies in Human Environmental Sciences at The University of Alabama are:

- An approved program of study prior to the completion of 100 hours and in accordance with the CHES guidelines and courses selected in consultation with the student’s adviser.
- A minimum of 120 earned semester credit hours, including all University Core Curriculum requirements and a minimum of 35 hours of coursework offered by the College of Human Environmental Sciences, including the human environmental sciences core courses (HES 310 Issues Human Envir Sciences for all students, HES 100 Freshman Compass Human Env Sci for new freshmen on campus and HES 103 Distance Compass HES for new online freshmen).
- A 2.0 or higher grade point average for all college-level courses attempted, all courses attempted at The University of Alabama and all courses attempted in the major field of study.
- At least 30 semester credit hours earned through The University of Alabama (UA) in the College of Human Environmental Sciences.

It is the student’s responsibility to make sure that all degree requirements have been met. Students should review the academic requirements of this catalog and under DegreeWorks through their myBama account. They must meet with their academic advisers within the college two semesters before graduation to verify that all requirements will have been fulfilled by the expected date of graduation. In order to graduate, a student must submit an application for degree, using the online application for degree available through myBama no later than the time he or she registers for their final semester at UA.

The general studies option is designed for those interested in careers that combine two or more areas in HES. Courses are selected in consultation with an adviser.

The purpose of this program is to give the student with specific career goals an opportunity to develop an innovative program of study with a focus on at least one area within the College. Each student majoring in general human environmental sciences is expected to file a program of study prior to the completion of 100 hours and in accordance with the following guidelines:

- The proposed course of study must include 120 hours (including the statewide general studies requirements), The University of Alabama Core Curriculum requirements, and the College of Human Environmental Sciences core requirements.
- The proposed course of study must give evidence that the student has built a cohesive structure of interrelated ideas around a focus within the College of Human Environmental Sciences and must

General Studies in HES, BS

Students with specific career goals have an opportunity to develop an innovative program of study with a focus on at least one of the following areas: apparel and textiles, consumer sciences, food and nutrition, health studies, human development and family studies, and hospitality management. Most students drawn to human environmental sciences share the goal of improving the quality of life of individuals, families, and communities.

The curriculum in general studies in human environmental sciences enables students to integrate knowledge from all areas of the field and prepares them for employment or further study. The general studies option is designed for those interested in careers in cooperative extension, government, human services, utility companies or an area of the communications field. Courses are selected in consultation with an advisor.

The purpose of this program is to give the student with specific career goals an opportunity to develop an innovative program of study with a focus on at least one area within the College.

Types of Jobs Accepted

Graduates are employed with large multi-national organizations, agencies with a social focus and as entrepreneurs.

Learn more about opportunities in this field at the Career Center.
The general requirements for the major in IDHS are:

- A 30-hour block of courses that represent a significant body of work related to the student’s career path which should include courses at the 300 and 400 level.

### Interdisciplinary Studies, BS

The degree in interdisciplinary studies is designed for the mature learner with prior college credit in various disciplines. It enables the student to build on academic preparation combined with work experience in a particular career or field to develop, with the advice of an advisor, an individualized program leading to a Bachelor of Science or a Bachelor of Arts degree.

The Bachelor’s Degree with a major in Interdisciplinary Studies (IDHS) is designed to maximize already-earned credits and earn a degree in the shortest amount of time for students with a significant number of college credit hours (approximately 100+) who have been working in the career field of their choice for a period of time or are currently enrolled University of Alabama students under special circumstances.

Students who are interested in pursuing the BS Degree in IDHS should meet with an advisor in the College of Human Environmental Sciences to determine if this program meets their needs. If approved, the advisor and the student will develop a plan to complete the degree.

The general requirements for the major in IDHS are:

- 120 credits earned and applied under general guidelines to the degree (this includes transfer limits, etc.)
- 2.0 UA overall, and major GPA
- Completion of UA’s general education requirements
- A 30-hour block of courses that represent a significant body of work related to the student’s career path which should include courses at the 300 and 400 level.

### Culverhouse College of Business

The Culverhouse College of Business offers one undergraduate degree, the Bachelor of Science in Commerce and Business Administration (BSCBA). The Manderson Graduate School of Business offers the following degrees: Master of Business Administration (MBA), Master of Arts (MA), Master of Science (MS), Master of Accountancy (MAcc), Master of Tax Accounting (MTA), and Doctor of Philosophy (PhD).

Undergraduate students in commerce and business administration may major in accounting, economics, finance, general business, management, management information systems, marketing, or operations management. Students in business may complete more than one major, including a non-business major, a non-business minor, and a specialization in a particular business field.

Culverhouse School of Accountancy (p. 1196)
Department of Economics, Finance, and Legal Studies (p. 1198)
Department of Information Systems, Statistics and Management Science (p. 1203)
Department of Management (p. 1206)
Department of Marketing (p. 1211)

### General Degree Requirements

The requirements specified in this catalog are intended for all students who begin their college careers during or after fall 2016. Students who have begun their careers prior to fall 2016 may choose to complete the requirements outlined in this catalog, but if they do so, they must...
complete all of the requirements listed here. Students may not choose some requirements from this catalog and some from previous catalogs.

Student Responsibilities

- Each student is responsible for selecting courses that will allow the student to make reasonable progress toward a degree in the College. An appointment with an advisor in the A.H. Bean Undergraduate Student Services Center to develop a long-term academic plan is strongly encouraged.
- Each student is responsible for following University and College policies appearing in official documents, including those on the University and College websites, governing academic programs, curricula, courses, and completion of degrees.
- Each student is expected to pursue successful completion of all courses in which the student enrolls.
- Each student is expected to maintain a current and accurate mailing address, email address and phone number with the A.H. Bean Undergraduate Student Services Center, and to respond promptly to all communications from the University and the College.
- Each student is expected to be familiar with the current academic calendar.

Maximum Class Hour Load Per Semester

Entering freshman students may enroll in a maximum of 16 semester hours during the first semester in residence. Continuing students may register for a maximum of 16 semester hours during the fall and spring semesters and a maximum of 14 semester hours during the summer session. To register for more hours, students will need special permission and will incur additional charges.

Students must register for a minimum of 12 semester hours in order to be classified as full-time students. Students who wish to take less than a full-time course load must secure permission from the associate dean of undergraduate programs.

Selecting a Major

Eligible students should declare a major via the Student tab in myBama once all lower-division requirements have been satisfied (see Admission Requirements (p. 897)).

A student who is eligible for the upper division but is not yet ready to declare a major must change from lower-division status to the general business major until ready to select a major program. Students who need information to enable them to select majors appropriate to their academic and career interests should consult with faculty advisors in their respective departments, or with the staff of the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

If a student wishes to change majors after admission to the upper division, a current minimum GPA of 2.5 is required to change to any major except general business.

Department and Program Requirements

A total of 120 hours, distributed as follows, are required for the degree of Bachelor of Science in Commerce and Business Administration:

<table>
<thead>
<tr>
<th>General Education Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 111 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EN 101 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EN 102 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121 or MATH 125 Calculus &amp; Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 126 Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>ST 260 Statistical Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Natural Science: eight hours designated N, including at least two hours of laboratory experience.

Humanities and Fine Arts: 12 hours total; at least three hours of literature¹ (designated L) and at least three hours of fine arts (designated FA). The remaining six hours may be chosen from either humanities (designated HU), literature, or fine arts.

History and Social/Behavioral Sciences: 12 hours total; at least three hours in history¹ (designated HI) and at least six hours chosen from other disciplines in the social and behavioral sciences (designated SB). EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics (required above) satisfy six hours of this requirement.

Foreign Language or Computer Language: Two semesters (six to eight hours) of foreign language credit (designated FL) or two semesters of C-designated computer language courses (six hours). This requirement will be satisfied by completing ST 260 Statistical Data Analysis and one additional C-designated course; some majors require a specific course to complete this requirement. See departmental sections for details.²

1 Every student must complete a six-hour sequence in either Literature or History.
2 Students must complete two semesters (six to eight hours) of a foreign language designated FL or earn equivalent credit by examination; or they must earn six semester hours in C-designated courses. Foreign language courses must be selected from non-commerce electives taken to meet the general education requirements. Students enrolling in C courses are expected to have basic computer application skills. Students lacking these skills, as determined by University policy, will be required to take a course or courses designed to develop the required skills. Credit for the course(s) will count as part of the students' electives.

Lower Division Functional Field Courses

A minimum grade of C- is required in each course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 210</td>
<td>Intro To Accounting</td>
<td>4</td>
</tr>
<tr>
<td>LGS 200</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with the required high school units in mathematics are classified by means of standardized placement tests; only those with satisfactory placement test scores are admitted to MATH 112 Precalculus Algebra or MATH 115 Precalculus Algebra & Trig. Students who do not make satisfactory scores should complete MATH 100 Intermediate Algebra before taking MATH 112 Precalculus Algebra or MATH 115 Precalculus Algebra & Trig. MATH 100 Intermediate Algebra, MATH 112 Precalculus Algebra, and/or MATH 115 Precalculus Algebra & Trig may be counted toward the degree as electives. In certain cases, students with very weak backgrounds in mathematics may be required to complete MATH 005 Introductory Algebra, which is a non-credit course. Students who concentrate in quantitative finance are required to complete MATH 125 Calculus I, MATH 126 Calculus II, and MATH 227 Calculus III. Other majors require students to complete MATH 121 Calculus & Applications or MATH 125 Calculus I, MATH 125 Calculus I, MATH 126 Calculus II, and MATH 227 Calculus III are four-hour courses.
Upper Division

Applicants for the upper division in the Culverhouse College of Business must complete at least 60 semester hours prior to admission into the upper division. The 60 hours should be chosen from the requirements listed above and must include degree credits for EC 110 Principles of Microeconomics and EC 111 Principles of Macroeconomics; MATH 121 Calculus & Applications or MATH 125 Calculus I; EN 101 English Composition and EN 102 English Composition; AC 210 Intro To Accounting; ST 260 Statistical Data Analysis; and LGS 200 Legal Environment of Business (or their equivalents). Additionally, at least four hours of natural science, three hours of fine arts, literature or humanities and three hours of history or social and behavioral sciences should be completed. Failure to earn degree credit for these specific courses, or to earn at least 60 semester hours overall, will make students ineligible for admission to the upper division and for enrollment in 300- and 400-level C&BA courses.

Upper Division Functional Field Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FI 302</td>
<td>3</td>
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<tr>
<td>GBA 300</td>
<td>3</td>
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<tr>
<td>GBA 490</td>
<td>3</td>
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<tr>
<td>MGT 300</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300</td>
<td>3</td>
</tr>
<tr>
<td>OM 300</td>
<td>3</td>
</tr>
</tbody>
</table>

1 A minimum grade of C- is required in each course.

Major Program Courses: 18 hours; see departmental listings for specific requirements in each major.

Electives: 22-33 hours; GBA 145 Freshman Compass: CBA is highly recommended for students who enter the College as freshmen.

International Focus: All business students are required to take at least one course (three hours) with an international focus. The course may be selected from courses in international business or from approved courses with international content in other colleges. Students should consult with their advisors for a list of approved courses. Any course taken abroad will also satisfy this requirement.

Some departments may specify some required elective courses. Consult your major department for further information.

Suggested Courses for Freshman and Sophomore Years

The following suggested course sequences for freshman and sophomore (lower-division) students are intended to assist students in planning their schedules to include the required pre-business coursework. Academic advisors for Business students are available in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

Suggested Course Sequence for Students Placed into MATH 112 Precalculus Algebra

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 110</td>
<td>3 EC 110</td>
<td>3</td>
</tr>
<tr>
<td>GBA 145</td>
<td>1 EN 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 100</td>
<td>3 MATH 112</td>
<td>3</td>
</tr>
<tr>
<td>Core Fine Arts</td>
<td>Core Natural Science</td>
<td></td>
</tr>
<tr>
<td>Core History</td>
<td>Free Elective (or MIS 200 for General Business majors)</td>
<td></td>
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</tbody>
</table>

Sophomore | Hours | Hours |
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<thead>
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<th></th>
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<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST 260</td>
<td>3 AC 210</td>
<td>4</td>
</tr>
<tr>
<td>Core History or SB Science</td>
<td>LGS 200</td>
<td>3</td>
</tr>
<tr>
<td>Core Humanities or Fine Arts</td>
<td>Free Elective</td>
<td></td>
</tr>
<tr>
<td>Core Literature</td>
<td>Core Literature, Humanities, or Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Core Natural Science</td>
<td></td>
<td></td>
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</tbody>
</table>

Total Hours: 26

Suggested Course Sequence for Students Placed into MATH 100 Intermediate Algebra

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 101</td>
<td>3 EC 110</td>
<td>3</td>
</tr>
<tr>
<td>GBA 145</td>
<td>1 EN 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 100</td>
<td>3 MATH 112</td>
<td>3</td>
</tr>
<tr>
<td>Core Fine Arts</td>
<td>Core Natural Science</td>
<td></td>
</tr>
<tr>
<td>Core History</td>
<td>Free Elective (or MIS 200 for General Business majors)</td>
<td></td>
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</tbody>
</table>

Sophomore | Hours | Hours |
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<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST 260</td>
<td>3 AC 210</td>
<td>4</td>
</tr>
<tr>
<td>Core History or SB Science</td>
<td>LGS 200</td>
<td>3</td>
</tr>
<tr>
<td>Core Humanities or Fine Arts</td>
<td>Free Elective</td>
<td></td>
</tr>
<tr>
<td>Core Literature</td>
<td>Core Literature, Humanities, or Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Core Natural Science</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 29

Suggested Course Sequence for Students Placed into MATH 110 Prealgebra

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC 110</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EN 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GBA 145</td>
<td>1 MATH 121</td>
<td>MATH 125</td>
</tr>
<tr>
<td>Core Fine Arts</td>
<td>Core Natural Science</td>
<td></td>
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<tr>
<td>Core History</td>
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</tbody>
</table>

Sophomore | Hours | Hours |
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<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST 260</td>
<td>3 AC 210</td>
<td>4</td>
</tr>
<tr>
<td>Core History or SB Science</td>
<td>LGS 200</td>
<td>3</td>
</tr>
<tr>
<td>Core Humanities or Fine Arts</td>
<td>Free Elective</td>
<td></td>
</tr>
<tr>
<td>Core Literature</td>
<td>Core Literature, Humanities, or Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Core Natural Science</td>
<td></td>
<td></td>
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</tbody>
</table>

Total Hours: 26

Major Programs

The following majors are offered in the Culverhouse College of Business. Each major requires at least 18 hours of coursework:

- Accounting
- Economics
- Finance
- General Business
- Management
- Management Information Systems
- Marketing
- Operations Management

In addition to the requirements for the major, students are encouraged to complete a second major, specialization in business, and/or a major or minor outside of business. Some majors require students to complete
a specialization. Students should consult with their advisors and major departments about approved courses of study.

**Graduation Requirements**

In order to qualify for a bachelor's degree in the Culverhouse College of Business, a student must earn a minimum of 120 semester hours of credit as specified in this catalog. A minimum of 30 hours must be earned in residence at The University of Alabama and in the College.

Total hours of study. A minimum of 120 semester hours of credit as specified in this catalog is required for the degree of Bachelor of Science in Commerce and Business Administration.

Academic standards. The following minimum standards of academic achievement must be met by each student who expects to earn a bachelor’s degree from the Culverhouse College of Business. (These standards are subject to change.)

- Each student must earn a GPA of at least 2.0 ("C") for all coursework attempted at The University of Alabama.
- Each student must earn a GPA of at least 2.0 ("C") for all college-level coursework attempted.
- Each student must earn a GPA of at least 2.0 ("C") for all coursework attempted in the major program.
- Each student must earn a grade of "C-" or better in required general education courses.
- Each student must earn a grade of "C-" or better in each of the business administration functional field courses.

It is the student’s responsibility to make sure that each of the above requirements has been met. Students should use DegreeWorks, the online academic planning system, to ensure that they are making adequate progress toward the degree. The Culverhouse registrar is available to students who wish to verify their records.

Application for degree. Each candidate for graduation from Culverhouse must submit an application for degree via MyBama, the online student portal. Students should submit their degree applications online once they have earned 90 hours. In all cases, an application for degree must be filed online via MyBama no later than the time at which the degree candidate registers for the candidate’s final semester in residence. Students who apply for their degrees after registration for the final semester will not receive their diplomas until the following term.

A student who wishes to complete degree requirements at any institution other than The University of Alabama, or by any means other than residency in the College, may do so only on the advice of the Culverhouse registrar and with the approval of the department head of the major field in which the student expects to earn a degree. Such students must meet all the above requirements.

All transient work should be transferred to the University before a student’s final semester on campus. Students wishing to take courses on another campus during their final semester must seek approval before registering for transient courses.

**Admission as a Freshman Student**

A student who meets the criteria for admission to The University of Alabama as a freshman is eligible for admission to the Culverhouse College of Business as a lower-division student with the intent to major in one of eight different major programs. Specific information about these criteria is available from The University of Alabama Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; 205-348-5666 or toll-free 1-800-933-BAMA in the continental United States.

Entering freshman students will be designated LAC, LEC, LFI, LMGT, LMKT, LMIS, LOM, or LGB, depending on their intended major. All lower-division students are administratively housed in the College, and they receive academic advising in the A.H. Bean Undergraduate Student Services Center in 10 Bidgood Hall.

**Admission as a Transfer Student**

A student seeking to transfer into the Culverhouse College of Business from another institution must have an official transcript sent directly to the UA Office of Undergraduate Admissions from each college or university previously attended. For admission to the University and to the College, the student is required to have a minimum GPA of "C" (2.0 on a 4.0 scale) for all college-level work attempted. For direct admission to the College’s upper division, a GPA of at least 2.5 is required for all majors except the general business major, which requires a GPA of 2.0 or above. Transferred credit hours will be applied as appropriate to a student's degree program. The authority to apply or to deny transferred credit rests with the College.

**Transfers from Two-Year Colleges**

Undergraduate business programs in this catalog require 120 semester hours for the bachelor's degree. At most, 50 percent of those hours may be taken at two-year colleges and applied toward graduation requirements. Therefore, the maximum number of two-year college hours applicable to a degree in the Culverhouse College of Business is 60 hours.

Only courses that are equivalent to those numbered 100 or 200 at the University (freshman- and sophomore-level courses) may be transferred to the Culverhouse College of Business from two-year colleges. Two-year college transfer students may transfer courses equivalent to the following:

- the College's general education requirements
- restricted and unrestricted electives
- the University’s sophomore-level courses that satisfy the business administration lower division functional field requirements (see "Admission to the College's Upper Division" (p. 1188))

All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama.

**Transfers from Senior Colleges and Universities**

Courses transferred from institutions accredited by the AACSB will be accepted within the broad limits of the College and the University graduation requirements. Students seeking to transfer credit from institutions not accredited by the AACSB, or by a regional or national accrediting agency, may be granted transfer credit on a provisional basis. Provisional credit may be validated by completing 30 semester hours in residence with a "C" average or better. Consult the Culverhouse registrar or the UA Office of Undergraduate Admissions for more information.

A maximum of six semester hours of professional courses taken at another institution may be applied toward a student’s major program requirements. Approval is required from the head of the department in which the student expects to earn a degree. All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama. All major program
coursework required by the Culverhouse School of Accountancy must be completed in residence.

Transfers from Other Divisions of The University of Alabama

Students who wish to transfer from one division of the University to another should consult staff members in the student services office of the division into which they intend to transfer. Students are encouraged to contact the new division in advance of the semester in which they intend to transfer. Students will need information about the procedures involved in transferring, as well as the applicability of previous and present coursework to the new division’s requirements.

Students with Bachelor’s Degrees

Students who have completed an undergraduate degree in another discipline and wish to complete a second degree in business must meet the requirements described for business majors in this catalog. A minimum of 30 hours of coursework beyond the first degree is required to earn a second bachelor's degree. For more information, students should consult with an academic advisor in the A.H. Bean Undergraduate Student Services Center in 10 Bidgood Hall.

Admission to the College’s Upper Division

Business students are admitted to the upper division of the College and to a major program upon completion of all lower-division requirements, which are outlined below. After the semester in which these requirements are satisfied, students may declare their major, specialization, and minor via the Student tab in myBama.

Requirements

Students are eligible for admission to the upper division and to a major program—and are therefore entitled to enroll in 300- and 400-level business courses—only if they meet the following standards:

1. Students must have earned a minimum of 60 hours of credit. Credit earned by such means as Advanced Placement (AP), CLEP or departmental placement is counted toward the 60-hour requirement. Students who have completed coursework at another institution and wish to have that work applied to the 60-hour requirement must ensure that transcripts from the other institution(s) are forwarded as soon as possible to The University of Alabama. Any hours completed that are not officially transferred to the student’s University of Alabama record cannot be included in the calculation of the 60-hour requirement. Courses (and hours) in which a student has earned a grade of Incomplete (I) cannot be included in the calculation of the 60-hour requirement until the grade has officially been changed to a passing grade.

2. Students must have completed the following required courses with grades of “C-” or higher:

   - AC 210 Intro To Accounting 4
   - EC 110 Principles of Microeconomics 3
   - EC 111 Principles of Macroeconomics 3
   - EN 101 English Composition 3
   - EN 102 English Composition 3
   - LGS 200 Legal Environment of Business 3
   - MATH 121 or Calculus & Applications 3-4
   - MATH 125 Calculus I

   - Students with Bachelor’s Degrees

   Students must have earned credit for course-specific prerequisites of the courses in which they wish to enroll.

   - Students who attempt to enroll in 300- or 400-level courses in violation of these policies will be administratively disenrolled from courses for a fourth attempt without permission from the associate dean for undergraduate student services.

   - Students who attempt to register for upper-division courses while still enrolled in lower-division courses, but they will be disenrolled from all upper-division courses if these requirements are not met prior to beginning the upper-division courses.

   Except for the general business major, which requires a minimum GPA of 2.0, students admitted to the upper division of the College and approved to begin Business coursework at the 300- and 400-level are required to have a GPA of at least 2.5 for all college-level coursework attempted, and they must have a minimum GPA of 2.5 for all University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate student services for admission to the upper division if the student’s GPA for the last 30 hours attempted at The University of Alabama is at least 2.5. These admission standards have been established by the Culverhouse faculty and are subject to change.

   If a student wishes to change majors once admitted to the upper division, a current minimum GPA of 2.5 is required to change to any major except general business.

   Students majoring in Management Information Systems are required to complete MIS 220 Business Programming II.

   Students specializing in quantitative finance or quantitative economics are required to complete MATH 125 Calculus I, MATH 126 Calculus II, and MATH 227 Calculus III.

Declaring the Major/Admission to the Upper Division

Students who have completed the aforementioned requirements should log in to their myBama account, go to the Student tab, and click the “Major/Minor” button to select a major, specialization, or minor. This should be done after end-of-term processing is complete for the semester in which the student has satisfied all lower-division requirements (typically one week after the end of final exams). Students who are unable to declare a major should visit an on-call advisor in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

Students who attempt to enroll in 300- or 400-level courses in violation of any of these policies will be administratively disenrolled from courses for which they are not eligible.

Non-Business Majors in Upper-Level Business Courses

Students from other divisions of the University may enroll in 300- and 400-level Culverhouse College of Business courses, subject to the following conditions:

1. Students must have achieved junior standing, defined as a minimum of 60 earned credit hours. Economics majors and economics minors in the College of Arts and Sciences may enroll in 300-level economics (EC) courses prior to achieving junior standing.

2. Students must have earned credit for course-specific prerequisites of the courses in which they wish to enroll.

3. Non-business majors may earn no more than 30 semester hours of Business courses (excluding EC 110 Principles of Microeconomics,
EC 111 Principles of Macroeconomics, and ST 260 Statistical Data Analysis) without approval from the associate dean for undergraduate student services.

Students who attempt to enroll in 300- or 400-level Business courses in violation of any of these policies will be administratively disenrolled from courses for which they are not eligible.

**Non-Business Students Pursuing Second Majors in Business**

Students from other divisions of the University may wish to pursue a second major in the College of Business. These students must complete the same required courses as students who are earning the Bachelor of Science degree. This includes all six required lower-division courses (noted above), all six upper division functional field courses and all required major program courses. Any student who is considering this should contact the Culverhouse registrar to guarantee that all requirements will be met.

Each academic department offers specializations within the department’s subject areas. Students should consult with their advisor and major department about course offerings and requirements, as these are subject to change. Students must meet all course-specific prerequisites for each course in a specialization and must meet the requirements for admission to the upper division of the College in order to take 300- and 400-level courses.

Courses from a major program cannot be used to satisfy specialization requirements unless otherwise noted, or unless permission is granted by the department chair.

Some specializations are restricted to certain majors, and some are prohibited for other majors. See the description of each specialization for details.

A minimum GPA of 2.0 for all required courses in a specialization is necessary for the specialization to be awarded.

**Culverhouse School of Accountancy**

**Accounting (for non-majors)**

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 310</td>
<td>3</td>
</tr>
<tr>
<td>AC 311</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>AC 361</td>
<td>3</td>
</tr>
<tr>
<td>AC 371</td>
<td>3</td>
</tr>
<tr>
<td>AC 389</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

**Professional Accounting**

**Professional Accounting**

<table>
<thead>
<tr>
<th>Professional Accounting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 456</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

**Economics, Finance and Legal Studies**

**Economics**

**Applied Microeconomics**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 410</td>
</tr>
<tr>
<td>EC 412</td>
</tr>
<tr>
<td>EC 423</td>
</tr>
<tr>
<td>EC 430</td>
</tr>
<tr>
<td>EC 442</td>
</tr>
<tr>
<td>EC 444</td>
</tr>
<tr>
<td>EC 480</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

**Economics (for non-majors)**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
</tr>
<tr>
<td>EC 309</td>
</tr>
<tr>
<td>Two 300- or 400-level EC electives</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

**Econometrics & Forecasting**

**Econometrics & Forecasting**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 413</td>
</tr>
<tr>
<td>EC 470</td>
</tr>
<tr>
<td>EC 471</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

**International Economics**

**International Economics**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 430</td>
</tr>
<tr>
<td>EC 431</td>
</tr>
<tr>
<td>EC 442</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>
### Macroeconomic & Monetary Policy

**Macroeconomics & Monetary Policy**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EC 416</td>
<td>Monetary Theory &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td>EC 431</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students must major in Economics.

### Public Policy & Law

**Public Policy & Law**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students must major in Economics.

Select three of the following:

- EC 410  Law And Economics
- EC 412  Industrial Organization
- EC 423  Public Finance
- EC 444  Political Economy of Terrorism
- EC 480  Econ of Environment

### Quantitative Economics

**Quantitative Economics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 126</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EC 470</td>
<td>Introduction to Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 471</td>
<td>Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ST 454 or MATH 355</td>
<td>Theory Of Probability</td>
<td>3</td>
</tr>
<tr>
<td>ST 455 or MATH 451</td>
<td>Mathematical Statistics I &amp; Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

Students must major in Economics.

### Finance

**Finance**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 455 or MATH 452</td>
<td>Mathematical Statistics II &amp; Math Stats W/Applictn II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Non-Finance major requirements</strong></td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>40-46</strong></td>
</tr>
</tbody>
</table>

1 Non-Finance majors will need to take FI 410 Intermediate Financial Mgt and FI 414 Investments if they plan to sit for the actuarial exams.

### Insurance & Financial Services: Risk Management

**Insurance & Financial Services: Risk Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 126</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EC 470</td>
<td>Introduction to Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 471</td>
<td>Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ST 454 or MATH 355</td>
<td>Theory Of Probability</td>
<td>3</td>
</tr>
<tr>
<td>ST 455 or MATH 451</td>
<td>Mathematical Statistics I &amp; Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

### International Finance

**International Finance**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 227</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students must major in Finance, take at least three years (six semesters) of foreign languages, and spend a semester abroad.

### Investment Management

**Investment Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 352</td>
<td>Corporate Financial Reporting</td>
<td>3</td>
</tr>
<tr>
<td>FI 415</td>
<td>Advanced Investment Topics</td>
<td>3</td>
</tr>
<tr>
<td>FI 419</td>
<td>Financial Derivatives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students must major in Finance.

### Personal Wealth Management

**Personal Wealth Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>FI 341</td>
<td>Fund. of Risk Mgt. &amp; Ins.</td>
<td>3</td>
</tr>
<tr>
<td>FI 360</td>
<td>Personal Asset Management</td>
<td>3</td>
</tr>
<tr>
<td>FI 444</td>
<td>Life &amp; Health Insurance</td>
<td>3</td>
</tr>
</tbody>
</table>
FI 460 Advanced Financial Planning 3
LGS 403 Estates & Trusts 3

Non-Finance major requirements 0-3

Total Hours 18-21

1 Non-Finance majors will need to take FI 414 Investments to sit for the CFP exam.

Quantitative Finance

Quantitative Finance

Students must major in Finance.

MATH 125 Calculus I 4
MATH 126 Calculus II 4
MATH 227 Calculus III 4
MATH 237 Introduction to Linear Algebra 3
EC 413 Econ Forecasting & Analysis 3
FI 419 Financial Derivatives 3
ST 454 or Mathematical Statistics I 3
ST 455 or Mathematical Statistics II 3
MATH 451 Math Stats W/Applictn I 3

Total Hours 27

Real Estate

Real Estate

FI 331 Principles of Real Estate 3
FI 436 Real Estate Financing 3
Select two of the following: 6

- CE 463 Construction Cost Estimating
- FI 334 Introduction to Real Estate Property Management
- FI 432 Real Estate Appraisal
- LGS 407 Real & Personal Property

Total Hours 12

Value Investing

Value Investing Specialization

AC 444 Financial Analysis - Investing 3
FI 415 Advanced Investment Topics 3
FI 417 Value Investing Principles 3

Total Hours 9

Information Systems, Statistics and Management Science

Management Information Systems

e-Decision Support

e-Decision Support

MIS 200 Fundamentals of Management Information Systems 3
MIS 340 Data Com in Global Environment 3
MIS 440 Decision Support Systems 3

Total Hours 9

Operations Management

Production Management

Production Management

Students must major in Operations Management.

OM 417 Logistics Management 3
OM 427 Purchasing and Sourcing 3
OM 450 Process Management & Improvement 3
OM 487 Capstone Project Seminar 3

Total Hours 12

Supply Chain Management

Supply Chain Management

OM 417 Logistics Management 3
OM 427 Purchasing and Sourcing 3
MKT 422 Supply Chain Strategy 3
IBA 460 Export/Import Management 3

Total Hours 12

Statistics

Business Intelligence

Business Intelligence

OM 310 Introduction to Management Science 3
MIS 440 Decision Support Systems 3
ST 451 Statistical Methods in Research II 3

Total Hours 9

Management

Entrepreneurship

Entrepreneurship

Faculty Contact: Dr. Louis D. Marino

The mission of the entrepreneurship focus area in the management major is to equip students with the knowledge, skills and abilities necessary to identify and evaluate opportunities, and then to capitalize on these opportunities by innovating within existing firms or founding new ventures. Students in this focus area will work closely with faculty and experienced entrepreneurs to gain hands-on experience in key activities necessary to build sound business models and acquire critical resources as they innovate and create profitable enterprises. Above all, this focus is for those special students who wish to be leaders and have a passion for starting something.

Entrepreneurship

Entrepreneurship

This Specialization may be applied toward the Management Major.

MGT 386 Foundations of Entrepreneurship 3
MGT 387 Creating, Recognizing, Evaluating and Pitching Opportunities 3
MGT 388 Starting New Ventures 3
MGT 481 New Venture Finance 3
Capstone Experience - select one: 6
Small Business Management and Consulting

MGT 484 Small Business Management 3
MGT 486 Small Business Consulting 3
New Product Development
MGT 483 Technology Commercialization
MKT 410 Managing Innovation

Electives - select two of the following: 6
EC 410 Law And Economics
FI 331 Principles of Real Estate
HCM 360 Introduction to Health Systems
IBA 350 Introduction to World Business
IBA 460 Export/Import Management
LGS 407 Real & Personal Property
MGT 301 Intro to HR Management
MGT 310 Practicum in Management
MGT 322 Effective Negotiations
MGT 406 Family Business Management
MGT 412 Management Presentations
MKT 421 Corp. Entrprnrshp & Innovation
MGT 452 Project Mgmt Communication
MKT 321 Retail Management
MKT 337 Personal Selling
MKT 376 Services Marketing
MKT 411 Supply Chain Management
OM 427 Purchasing and Sourcing

Health Care Analytics

Health Care Analytics
Faculty Contact: Dr. Marilyn V. Whitman

The health care analytics specialization provides undergraduate students with the skills to meet the complex needs of healthcare organizations. Students in the healthcare analytics specialization learn how to harness data, process the data and produce evidence-based decisions. The daunting challenges confronting healthcare organizations today will require smarter, more informed decisions driven by data to improve outcomes and offer the value that market dynamics, governmental regulations and consumers demand. The eight-course sequence aims to develop analytics competencies in our students to prepare them for entry-level analyst positions in a variety of healthcare settings.

Health Care Analytics

This Specialization may be applied toward the Management Major.
HCM 360 Introduction to Health Systems 3
HCM 361 Healthcare Finance and Reimbursement 3
HCM 362 Health Information Systems 3
HCM 463 Healthcare Systems Improvement 3
HCM 464 Healthcare Data Mining 3
HCM 465 Healthcare Analytics Projects 3
MGT 452 Project Mgmt Communication 3
Select one of the following: 3
HCM 492 Internship
MGT 301 Intro to HR Management
MGT 310 Practicum in Management
MGT 386 Foundations of Entrepreneurship
MGT 412 Management Presentations

MGT 422 Leadership Communication
OM 310 Introduction to Management Science

Total Hours 24

Human Resource Management

Human Resource Management
Faculty Contact: Larry E. Baldwin

The human resource management specialization develops student skills for the effective management of human resources in organizations. The six-course curriculum trains students to strategically address human resource issues to improve organizational performance. The curriculum is aligned with Society for Human Resource Management (SHRM) curriculum guidelines and prepares students to pass the SHRM Assurance of Learning certification exam.

Human Resource Management

This Specialization may be applied toward the Management Major.
MGT 301 Intro to HR Management 3
MGT 431 Employee Recruitment, Selection, and Placement 3
MGT 432 Employee Relations 3
MGT 433 Compensation & Performance Mgt 3
MGT 434 Training and Development 3
MGT 437 Strategic HR Management 3
Select two of the following: 6
HCM 360 Introduction to Health Systems
IBA 350 Introduction to World Business
MGT 310 Practicum in Management
MGT 322 Effective Negotiations
MGT 386 Foundations of Entrepreneurship
MGT 412 Management Presentations
MGT 420 Organizational Change
MGT 422 Leadership Communication
MGT 452 Project Mgmt Communication
MGT 492 Internship In HRM

Total Hours 24

Management Communication

Management Communications
Faculty Contact: Dr. Jefrey S. Naidoo

The courses in this specialization help students manage what they communicate as young professionals. They improve the impression they make when communicating orally and visually. They exercise their emotional intelligence to gain acceptance as leaders when communicating interpersonally. They gain professional experience by managing a client project and refining their interpersonal, oral, visual and written communication skills. Students get hands-on, in-class practice with individual mentoring in all three courses.

Management Communication

This Specialization may be applied toward the Management Major.
MGT 412 Management Presentations 3
MGT 422 Leadership Communication 3
MGT 452 Project Mgmt Communication 3

Total Hours 9
New Venture Creation

New Venture Creation

Faculty Contact: Dr. Louis D. Marino

The New Venture Creation specialization provides students with a strong foundation in the skills needed to create, develop and operate a new business venture. Students will work closely with industry-experienced lecturers and faculty throughout their coursework to provide a real-world perspective to their degree and career choices. Courses focus on opportunity recognition, creativity, and innovation and growth processes to help students realize their goal of creating a new venture.

New Venture Creation

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 386</td>
<td>3</td>
</tr>
<tr>
<td>MGT 387</td>
<td>3</td>
</tr>
<tr>
<td>MGT 388</td>
<td>3</td>
</tr>
<tr>
<td>MGT 481</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Marketing

International Business

The internationalization of business is a critical reality to those operating in the modern business world. Understanding cross-cultural differences in markets and business practices and adopting an international competitive mindset is critical to the success of today's business leaders. The international business specialization is designed for students who are interested in entering the international arena. This program is designed for students of any major, with electives that span such areas as marketing, management, economics and finance. Due to the nature of international business, this specialization requires 12-15 total hours, including an overseas study component.

International Business

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBA 350</td>
<td>3</td>
</tr>
<tr>
<td>IBA 351</td>
<td>3</td>
</tr>
<tr>
<td>IBA 460</td>
<td>3</td>
</tr>
<tr>
<td>Approved Study Abroad course</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following electives:</td>
<td>0-3</td>
</tr>
<tr>
<td>IBA 455</td>
<td></td>
</tr>
<tr>
<td>EC 430</td>
<td></td>
</tr>
<tr>
<td>EC 442</td>
<td></td>
</tr>
<tr>
<td>FI 431</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>12-15</td>
</tr>
</tbody>
</table>

Professional Sales

Sales is a program of preparation for students that want to fast-track their business careers. This concentration provides:

1. practical application of sales and self-preservation techniques
2. access and exposure to business recruiters from Fortune 100 companies
3. valuable persuasion and communication skills that can be used to advance any career in business

Professional sales is a career that is very much in demand. There are still more job openings than qualified applicants. Also, the benefits and compensation packages for professional sales positions make it one of the highest paid fields in marketing.

Professional Sales

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 337</td>
<td>3</td>
</tr>
<tr>
<td>MKT 437</td>
<td>3</td>
</tr>
<tr>
<td>MKT 438</td>
<td>3</td>
</tr>
<tr>
<td>MKT 439</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Services Marketing

Services are now a major driver of the U.S. and world economy. Therefore, marketing and management in the areas of people, business process and the design of physical space are of great importance. The ability to understand, map, design and re-design business service processes, flow and physical space across the value chain is critical, as is the ability to manage service employees and teams. Services marketing is a specialization designed for students interested in working in and managing teams of people to analyze, develop and deliver world-class service, manage customer relationships and work cross-functionally with other aspects of the organization such as sales, logistics and operations.

Services Marketing

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 376</td>
<td>3</td>
</tr>
<tr>
<td>MKT 476</td>
<td>3</td>
</tr>
<tr>
<td>MKT 477</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Auditing Courses

Students may register for courses as auditors with the approval of the departments offering the courses. The deadline for registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester. Consult the College registrar for more information.

The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. Audited courses do not count toward degree requirements.

Online Courses

Culverhouse students may enroll in online courses through the College of Continuing Studies. An online course with the same course number as a regularly scheduled on-campus course fulfills the same degree requirements as an on-campus course. Further information about online courses is available through the College of Continuing Studies.

Pass/Fail Option

The University and the Culverhouse College of Business offer students the opportunity to pursue courses on a pass/fail basis as a means of encouraging students to broaden their interests and learning experiences beyond their business specializations. To register for a course on a pass/fail basis, a student must gain approval in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. The deadline for registering for a course on a pass/fail basis coincides with the deadline for adding courses at the beginning of each semester.
The College registrar is responsible for determining that each student requesting the pass/fail option meets the following criteria:

1. The student must have attained sophomore standing (a minimum of 30 hours earned).
2. If the student is a transfer student, he or she must have earned 15 hours or more in residence, maintaining a GPA of at least 2.0 in residence.
3. The student must have an overall GPA of 2.0 or higher.
4. The course the student wishes to take on a pass/fail basis must be a non-Business elective. Business courses (required or elective) may not be taken on a pass/fail basis except in the case of courses that are offered only as pass/fail courses.
5. Courses that will be used to satisfy University of Alabama Core Curriculum requirements may not be taken on a pass/fail basis.
6. The student may take a maximum of four courses (or 12 hours) of coursework on a pass/fail basis while earning an undergraduate degree.
7. The student may take no more than one course per semester on a pass/fail basis.
8. Business students will not be allowed to register for courses on a pass/fail basis after the deadline for adding courses, and once the option is selected it may not be rescinded.

Several specialized courses offered only on a pass/fail basis may be taken in the freshman year or the first semester in residence (for transfer students). Consult the Culverhouse Student Services Office for further information.

Policy on Repeating Courses
A course may be repeated, but the record of both the original and the repeat enrollment will appear on the student’s transcript. Both attempts will be counted as hours attempted, but only the second attempt will count as hours earned for the degree. If the course is passed on the first attempt, but failed on the second attempt, the student will not earn credit for the course toward a degree.

Students have a maximum of three attempts at completing each required Culverhouse course with a grade of "C-" or higher. If the third attempt is unsuccessful, the student will not be allowed to register for a fourth attempt without permission from the associate dean for undergraduate student services. If that permission is not granted, the student may change to another division within the University.

The MIS Program and the Culverhouse School of Accountancy have their own rules for repeating courses required in their majors. Consult the MIS Program and the Culverhouse School of Accountancy for more information.

Policy on Mathematics Courses
The analysis of many business problems calls for mathematical reasoning. Students should take the highest-level mathematics sequence for which they are eligible. The MATH 112 Precalculus Algebra and MATH 121 Calculus & Applications sequence provides the minimum skills for pursuing an undergraduate business degree, but this is not a substitute for MATH 125 Calculus I. Any sequence that includes MATH 125 Calculus I is preferable to the MATH 112 Precalculus Algebra and MATH 121 Calculus & Applications sequence. Those students who are interested in graduate study or in working in technical positions should choose a course of study that will lead to at least partial completion of the standard calculus sequence: MATH 125 Calculus I, MATH 126 Calculus II, and MATH 227 Calculus III.

Below are specific rules that govern mathematics requirements for Business students:

1. Once a student has earned credit for MATH 112 Precalculus Algebra and/or MATH 121 Calculus & Applications or MATH 125 Calculus I, the student may not earn credit, including CLEP, for lower-numbered mathematics courses.
2. The College will not grant degree credit for any mathematics course numbered lower than MATH 100 Intermediate Algebra at The University of Alabama.
3. The College will not grant degree credit for any mathematics course offered for transfer credit from a junior college which is titled, or has the substance of, "business mathematics" or "mathematics for finance."

Dual Major in Business and Foreign Language
The modern business environment is truly global, and the dual major provides students the training necessary to succeed in that environment. The dual major student completes a major program in the Culverhouse College of Business, as well as a second major in Spanish or foreign languages and literature (French track or German track). The result is a superior skill set derived from cutting-edge business training and thorough study of a language and the culture associated with it. Such a program creates students who are technically proficient, culturally sensitive, and flexible enough to deal with the business challenges of the future.

Major programs in the Culverhouse College of Business
- Management Information Systems (MIS) (p. 1204)
- Operations Management (BS) (p. 1205)
- Accounting (BS) (p. 1197)
- Economics (BS) (p. 1199)
- Finance (BS) (p. 1201)
- General Business (BS) (p. 1208)
- Management (BS) (p. 1209)
- Marketing (BS) (p. 1212)

Foreign Language Courses for Dual Majors
In addition to the requirements for a major in business, students must complete the requirements in a foreign language described in the following sections. Students should consult with the Culverhouse registrar about current requirements for simultaneous degree programs (as opposed to dual or double majors).

Business - Second Major in French

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 201</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FR 202</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FR 321</td>
<td>Voices In French</td>
<td>3</td>
</tr>
<tr>
<td>FR 323</td>
<td>Text, Image, And Word</td>
<td>3</td>
</tr>
<tr>
<td>FR 324</td>
<td>Commercial French</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>FR 331</td>
<td>French Civilization</td>
<td></td>
</tr>
<tr>
<td>FR 361</td>
<td>Intro Romance Linguistic (Same as IT 361 and SP 361)</td>
<td></td>
</tr>
<tr>
<td>FR 431</td>
<td>Contemp French Civiliztn</td>
<td></td>
</tr>
<tr>
<td>FR 461</td>
<td>French Linguistics</td>
<td></td>
</tr>
</tbody>
</table>
Lee Bidgood, the first dean of the college, launched the School of Commerce in 1919. Dean Bidgood oversaw the development of the college, including construction of the Commerce Building (now known as Bidgood Hall), which was completed in 1929. Bidgood Hall has further developed to become a central part of the technologically integrated three-building business complex in the central University campus.

The college offers degree programs at the bachelor’s, master’s, and doctoral levels. The mission of the Culverhouse College of Business is to excel in the creation and application of general and discipline-based business knowledge. We are committed to providing the educational and enrichment experiences expected of a major, full-time residential state university.

**Curriculum VII - For College Graduates**

The business curriculum for college graduates is available to those who hold baccalaureate degrees from regionally accredited institutions in any recognized field of study other than business and who have a GPA of at least 2.5 for all college-level coursework attempted and at least a 2.5 GPA for all University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate programs for admission if the student’s GPA is at least 2.5 or above for the last 30 hours of coursework attempted. Curriculum VII leads to the Bachelor of Science in Commerce and Business Administration degree, following completion of the undergraduate work outlined below. Curriculum VII is for the college graduate who wants a professional degree in commerce and business administration on the undergraduate level. At least 30 semester hours of study in residence in the Culverhouse College of Business are required.

In addition to the 2.5 GPA requirement, students must complete AC 210 Intro To Accounting, CS 102 Microcomputer Applications, EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics, LGS 200 Legal Environment of Business, MATH 121 Calculus & Applications and ST 260 Statistical Data Analysis (or their equivalents) with grades of “C-” or higher before declaring a major and enrolling in 300- or 400-level Business courses. Any of this coursework completed in pursuit of the first bachelor’s degree will apply to the second degree under Curriculum VII. Failure to complete the prerequisites will result in administrative disenrollment from 300- or 400-level Business courses.

**Lower Division Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 210</td>
<td>Intro To Accounting</td>
</tr>
<tr>
<td>CS 102</td>
<td>Microcomputer Applications</td>
</tr>
<tr>
<td>EC 110</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>EC 111</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>LGS 200</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>MATH 121</td>
<td>Calculus &amp; Applications</td>
</tr>
<tr>
<td>ST 260</td>
<td>Statistical Data Analysis</td>
</tr>
</tbody>
</table>

Total Hours 22

**Business Administration Functional Field Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FI 302</td>
<td>Business Finance</td>
</tr>
<tr>
<td>GBA 300</td>
<td>Business Communications</td>
</tr>
<tr>
<td>GBA 490</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>MGT 300</td>
<td>Organizational Theory &amp; Behavior</td>
</tr>
<tr>
<td>MKT 300</td>
<td>Marketing</td>
</tr>
<tr>
<td>OM 300</td>
<td>Intro Operations Management</td>
</tr>
</tbody>
</table>

Total Hours 18

**Major Program Courses**

Select 18 hours

**Specialization**
Select a specialization (if required)  0-15
Total Hours  58-73

Accelerated Master’s Program
The Accelerated Master’s Program allows students to pursue graduate and undergraduate degrees concurrently. These programs are available in several business disciplines and serve students who have exceptional ability. Students should contact their major department for details.

Faculty
Dean
Kay M. Palan
Senior Associate Dean for Academic Programs
Jonathon Halbesleben
Associate Dean for Undergraduate Student Services
David J. Heggem Jr.
Associate Dean for Undergraduate Programs
David Mothersbaugh
Associate Dean for Graduate Programs
J. Brian Gray
Associate Dean for Economic Development/Outreach
Samuel Addy
Registrar
Danielle Clarke

Culverhouse School of Accountancy
Professor Richard W. Houston, Director
Office: 314 Alston Hall
The School of Accountancy was established in July 1978 as an academic unit of the College of Business. The school was named in honor of Hugh F. Culverhouse, Sr. in February 1989. Culverhouse was an alumnus of The University of Alabama, a noted lawyer and businessman, and a major supporter of the accounting program. The Culverhouse School of Accountancy is a charter member of the Federation of Schools of Accountancy. The School holds accounting accreditation at both the undergraduate and graduate levels. In addition to the Bachelor of Science degree, the Culverhouse School of Accountancy offers two professional master’s degrees, the Master of Accountancy (MACc) and the Master of Tax Accounting (MTA), and a Doctor of Philosophy (PhD) degree with a concentration in accounting.

- Majors
  - Accounting (BS) (p. 1197)

AC148 Introduction to the Accounting Major and Profession
Hours 1

AC 148 is open to freshmen and sophomores interested in learning more about the accounting profession and the accounting curriculum in the Culverhouse School of Accountancy. This course will introduce basic terminology and methodology, the accounting curriculum, career and educational resources, and career options.

Prerequisite(s): None

AC210 Intro To Accounting
Hours 4

Introduction to accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions. Students who intend to major in accounting should take AC 289 or CS 285 before or concurrently with AC 210. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): EC 110

View All Courses

Faculty
Director and Hilton Dean Professor of Accounting
Houston, Richard W.
Durr-Fillauer Chair in Business Ethics and Professor of Accounting
DeZoort, F. Todd
Fayard Endowed Chair and Professor of Accounting
Hatfield, Richard C.
Ernst & Young Diversity Mentor in Accounting and Associate Professor of Accounting
Johnson, Peter M.
Ross-Culverhouse Endowed Chair and Professor of Accounting
Lopez, Thomas J.
Nabors Faculty Fellow and Associate Professor of Accounting
Parsons, Linda M.
Stimpson Gulf Lumber Faculty Fellow and Associate Professor of Accounting
Reitenga, Austin
Roddy-Garner Professor of Accounting
Robbins, Walter A.
Hugh Culverhouse Professor of Accounting
Schnee, Edward J.
Hugh Culverhouse Chair and Professor of Accounting
Stone, Mary S.
PricewaterhouseCoopers Faculty Fellow, Endowed Anonymous and Associate Professor of Accounting
Taylor, Gary K.

Assistant professors
Buchheit, Steve
Doxey, Marcus M.
Hoang, Kris
Pollard, Troy J.
Stinson, Shane

Instructors
Datema, Jill H.
Fitzgibbon, J. Thomas
Little, Joshua R.
Locke, Clint J.
McKinney, Lisa Hughes
Minyard, Donald H.
Accounting, BS

Accounting is a great major for students seeking a challenging career with unlimited opportunities. Top skills looked at for promotion and success for accounting majors include communication and people skills with behavior that is professional, respectful, and polite. A student should be a team player and use time management as time costs. Research and problem solving is important as well. Accounting students should stay on top of the latest information, news, and trends. Students should be motivated and have initiative and drive. Ethics and professionalism are a must.

Admission and Retention Policies

A prospective Culverhouse School of Accountancy student must submit an application verifying that all criteria for admission have been met. Students are eligible for admission if they meet the admission criteria to the upper division of the College of Business. A student whose GPA falls below these standards may petition the associate dean of Undergraduate Student Services for admission to the upper division and to the Culverhouse School of Accountancy if the student’s GPA for the last 30 hours attempted at The University of Alabama is at least 2.5.

Students who have not been admitted to the School of Accountancy may enroll in upper-division accounting courses offered for non-majors, provided they have fulfilled the prerequisites for those courses. A student who has not been admitted to the School of Accountancy may also enroll in 300-level accounting courses offered for accounting majors, provided that the student has fulfilled the prerequisites for those courses and either meets the criteria for admission to the Culverhouse School of Accountancy or must take those courses as part of a major, minor, or specialization. Only students who have been admitted to the Culverhouse School of Accountancy may enroll in 400-level accounting courses without special permission from the director.

Accounting majors must complete all 300-level accounting courses with grades of "C-" or higher. A student who enrolls in any of these courses twice and fails to make a grade of "C-" or higher will not be permitted to take additional accounting courses without special permission. Enrollment is defined as registration for a course that results in the recording of hours attempted on the student’s record. Priority for enrollment in upper-division accounting courses is given to students who are not repeating the courses.

Students wishing to sit for the CPA examination in Alabama must complete an undergraduate accounting degree and have a least 24 hours of upper-division accounting courses. To be a CPA, students must have earned 150 semester hours of college courses, with at least 33 hours of accounting above the introductory level, in courses specified by the Alabama State Board of Accountancy. To meet this requirement, students in the Culverhouse School of Accountancy can be admitted to either the Master of Accountancy or Master of Tax Accounting programs. Students should apply for admission to one of the graduate programs during the first semester of their senior year. The Professional Accounting specialization is required for students entering the master’s programs in accounting.

A grade of C- or better is needed in any accounting course that is listed in the catalog as a prerequisite for the next course.

• Accounting majors must earn grades of C- or higher in all 300-level accounting courses. See the General Degree Requirements and Academic Policies (p. 624) section of this catalog for policies on grading and repeating courses.
• It is strongly recommended that AC 310 Fin Rptg & Anyls of Bus Actv I be taken prior to enrolling in AC 361 Cost Analysis for Planning & Control.
• Students may not receive credit towards the same degree for:
  AC 310 Fin Rptg & Anyls of Bus Actv I and AC 352 Corporate Financial Reporting,
or
  AC 361 Cost Analysis for Planning & Control and AC 351 Managerial Accounting Decisions,
or

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 310</td>
<td>Fin Rptg &amp; Anyls of Bus Actv I</td>
<td>3</td>
</tr>
<tr>
<td>AC 311</td>
<td>Financial Reporting &amp; Analysis of Business</td>
<td>3</td>
</tr>
<tr>
<td>AC 361</td>
<td>Cost Analysis for Planning &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 389</td>
<td>Accounting Information Systems - Development, Operation, and Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 432</td>
<td>Intro to Corporate Governance, Risk Assessment, Assurance Services</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

### Third-year Requirement for Accounting Majors

No 300- or 400-level accounting courses may be transferred from another institution and applied to the degree requirements for accounting majors. These upper-level courses have unique components, and equivalent courses do not exist at other universities. A condition of enrollment in all undergraduate accounting courses other than AC 351 Managerial Accounting Decisions and AC 352 Corporate Financial Reporting is admission to the Culverhouse School of Accountancy or permission of the director.

### Specializations

#### Accounting

For non-Accounting majors; not open to General Business majors. 2.0 GPA is required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 310</td>
<td>Fin Rptg &amp; Anyls of Bus Actv I</td>
<td>3</td>
</tr>
<tr>
<td>AC 311</td>
<td>Financial Reporting &amp; Analysis of Business</td>
<td>3</td>
</tr>
<tr>
<td>AC 351</td>
<td>Managerial Accounting Decisions</td>
<td></td>
</tr>
<tr>
<td>AC 352</td>
<td>Corporate Financial Reporting</td>
<td></td>
</tr>
<tr>
<td>AC 361</td>
<td>Cost Analysis for Planning &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 389</td>
<td>Accounting Information Systems - Development, Operation, and Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 361</td>
<td>Cost Analysis for Planning &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>AC 389</td>
<td>Accounting Information Systems - Development, Operation, and Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9

#### Professional Accounting

This specialization is designed for students who plan to pursue a master’s degree in accounting (MAcc or MTA) and/or sit for the CPA exam. 2.0 GPA is required.
Required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 456</td>
<td>Government &amp; Nonprofit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>AC 471</td>
<td>Taxation of Business Transactions &amp; Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

- AC 492 Accounting Internship
- FI 301 Intro Financial Inst. & Mkts
- FI 341 Fund. of Risk Mgt. & Ins.
- FI 410 Intermediate Financial Mgt
- FI 414 Investments
- IBA 350 Introduction to World Business

Total Hours 9

Accounting professionals can be found in public accounting firms, banks and financial institutions, corporations, public utilities, hospitals, the media, law firms, government, manufacturing companies, and nonprofit institutions.

Types of Jobs Accepted

Employment opportunities for our graduates range from large international to small accounting firms, public and private business enterprises, government agencies such as the Internal Revenue Service or the FBI, and nonprofit organizations in positions such as staff accountant, financial analyst, or financial consultant.

Jobs of Experienced Alumni

accounting manager, auditor, bank examiner, benefits administrator, budget accountant, certified public accountant, chief financial officer, claims adjuster, computer systems analyst, consumer credit officer, controller, director of finance, FBI or CIA agent, financial analyst, IRS investigator, loan administrator, partner/stockholder, tax specialist

Learn more about opportunities in this field at the Career Center

Department of Economics, Finance, and Legal Studies

Professor Laura Razzolini, Department Head
Office: 200 Alston Hall

The primary objective of the Department of Economics, Finance, and Legal Studies is to offer high quality undergraduate and graduate programs in economics and finance which are designed to prepare students for rewarding careers in both the public and private sectors of the competitive job market.

Programs offered provide basic economic and financial concepts and knowledge that serve as the foundation for both public policy and business decision-making activity. Furthermore, through the many courses offered in each program, students can focus in areas such as applied economics, public sector economics, international economics, financial management, investing, and public finance that suit their career development goals.

- Majors
  - Economics (BS) (p. 1199)
  - Finance (BS) (p. 1201)
- Minor
  - Economics (p. 1201)

Double Major in Finance and Economics

The double major in finance and economics is for students looking to combine the fields of finance and economics. Students completing this curriculum earn two majors, not two degrees.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 309</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FI 301</td>
<td>Introduction to Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>FI 389</td>
<td>Financial Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>FI 410</td>
<td>Intermediate Financial Mgt</td>
<td>3</td>
</tr>
<tr>
<td>FI 412</td>
<td>Money &amp; Capital Markets</td>
<td>3</td>
</tr>
<tr>
<td>FI 414</td>
<td>Investments</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved FI elective 1

Additional EC courses 2 12

Total Hours 36

1 Except FI 302 Business Finance or FI 400 Financial Institutions, Markets, and Investment.
2 Except EC 389 Computerized Management Information Systems, EC 400 Analysis of Economic Conditions at the Micro & Macro Levels, or EC 492 Internship.

[object Object]

EC110 Principles of Microeconomics
SB

Hours 3

Introduction to microeconomic analysis concentrating on consumer and producer behavior, competitive and imperfect markets, public policy and regulation, and income distribution.

Prerequisite(s): MATH 100 or MATH 110 or MATH 112 or MATH 113 or MATH 115 or MATH 121 or MATH 125 or MATH 145 or MATH 146; or UA Math Placement of 310 or higher, ACT Math subscore of 24 or higher, (New) SAT Math subscore of 580 or higher, (Old) SAT Math subscore of 560 or higher.

Social and Behavioral Sciences

FI301 Introduction to Financial Institutions and Markets

Hours 3

Overview of the financial systems in which business operates, with emphasis on financial institutions, instruments, and markets.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

LGS200 Legal Environment of Business

Hours 3

Environmental approach to the study of law, including the way the law interrelates, philosophy of law, and sources of law. The relationship among law, business, political influences, and the society is treated. Students are limited to three attempts for this course, excluding withdrawals.

View All Courses

Faculty

Department Head
Razzolini, Laura
Economics, BS

Students interested in studying economics should be able to think analytically, be creative in solving problems, and have a strong interest in overall business strategy and/or public policy. Economics is also a good major for pre-law students as well as students desiring to pursue a Master of Business Administration, a Master of Public Administration, or an advanced degree in economics, public policy, finance, or other areas of business.

The University’s economics program offers an extensive array of courses to develop the student’s analytical abilities and prepare graduates for rewarding careers in business, industry and government. Economics also provides a sound foundation for postgraduate study in a variety of fields. The department offers a major in economics through both the Culverhouse College of Business and the College of Arts and Sciences. Students majoring in other fields in Culverhouse may select economics as a non-business minor. Students majoring or minorin in economics are urged to consult an undergraduate advisor for recommendation of 400-level economics courses and general electives consistent with their career goals and objectives.

Economics majors must complete the core Computer Language requirement by taking FI 389 Financial Analysis and Modeling or EC 389 Computerized Management Information Systems. Economics majors must also complete a specialization or a second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with a plan approved by the department. Students who complete a minor (but not a second major) must also complete a specialization.

### Hours

<table>
<thead>
<tr>
<th>Major Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308 Intermediate Microeconomics (minimum grade of C-)</td>
<td>3</td>
</tr>
<tr>
<td>EC 309 Intermediate Macroeconomics (minimum grade of C-)</td>
<td>3</td>
</tr>
<tr>
<td>FI 301 Intro Financial Inst. &amp; Mkts</td>
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<tr>
<td>Additional EC courses</td>
<td>9</td>
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<tr>
<td>Credit Hours Subtotal:</td>
<td>18</td>
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</table>

<table>
<thead>
<tr>
<th>Specialization</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialization or Second Major</td>
<td>9-60</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>9-60</td>
</tr>
</tbody>
</table>

Total Hours 27-78

1 EC 400 Analysis Econ Cond Micro/Macro and EC 492 Internship cannot be counted toward the major; EC 470 Introduction to Mathematical Economics is strongly recommended for those considering graduate work in economics or business.

### Dual Major in Economics and Mathematics

The dual major in economics and mathematics is for students looking to apply strong quantitative skills in the field of economics. This curriculum is ideal for students in pursuit of a career that involves forecasting and/or an understanding of formal economic modeling. It also provides students with the mathematical background necessary for pursuing a doctoral degree in economics. Students in this degree program are formally...
enrolled in the Culverhouse College of Business, but the curriculum is
determined by both the College of Business and the College of Arts and
Sciences. Students are not required to select a mathematics track when
pursuing this dual major.

**Economics Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics (minimum grade of C)</td>
</tr>
<tr>
<td>EC 309</td>
<td>Intermediate Macroeconomics (minimum grade of C)</td>
</tr>
<tr>
<td>EC 471</td>
<td>Econometrics</td>
</tr>
<tr>
<td>EC elective</td>
<td></td>
</tr>
<tr>
<td>FI 301</td>
<td>Intro Financial Inst. &amp; Mkts</td>
</tr>
<tr>
<td>FI 389</td>
<td>Financial Analysis and Modeling</td>
</tr>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
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</table>

**Mathematics Courses**

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 227</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
</tr>
<tr>
<td>MATH 238</td>
<td>Appld Diff Equations I</td>
</tr>
<tr>
<td>MATH 355</td>
<td>Theory Of Probability</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
</tr>
<tr>
<td>MATH electives (300- or 400-level)</td>
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</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

1. The following courses cannot be counted as MATH electives:
   MATH 402 History Of Mathematics and MATH 405 Geometry For Teachers.

**Specializations in Economics**

**Applied Microeconomics**

**Applied Microeconomics**

Students must major in economics.

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EC 410</td>
<td>Law And Economics</td>
</tr>
<tr>
<td>EC 412</td>
<td>Industrial Organization</td>
</tr>
<tr>
<td>EC 423</td>
<td>Public Finance</td>
</tr>
<tr>
<td>EC 430</td>
<td>International Trade</td>
</tr>
<tr>
<td>EC 442</td>
<td>Econ Develop Of Lat Am</td>
</tr>
<tr>
<td>EC 444</td>
<td>Political Economy of Terrorism</td>
</tr>
<tr>
<td>EC 480</td>
<td>Econ of Environment</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**Econometrics & Forecasting**

**Econometrics & Forecasting**

Students must major in Economics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
</tr>
<tr>
<td>EC 470</td>
<td>Introduction to Mathematical Economics</td>
</tr>
<tr>
<td>EC 471</td>
<td>Econometrics</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**Economics**

**Economics**

For non-Economics majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics</td>
</tr>
<tr>
<td>EC 309</td>
<td>Intermediate Macroeconomics</td>
</tr>
<tr>
<td>Two 300- or 400-level EC electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**International Economics**

**International Economics**

Students must major in Economics, complete at least three years
(six semesters) of a foreign language, and spend a semester abroad.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 430</td>
<td>International Trade</td>
</tr>
<tr>
<td>EC 431</td>
<td>International Finance</td>
</tr>
<tr>
<td>EC 442</td>
<td>Econ Develop Of Lat Am</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**Macroeconomics & Monetary Policy**

**Macroeconomics & Monetary Policy**

Students must major in Economics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
</tr>
<tr>
<td>EC 416</td>
<td>Monetary Theory &amp; Policy</td>
</tr>
<tr>
<td>EC 431</td>
<td>International Finance</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**Public Policy & Law**

**Public Policy & Law**

Students must major in Economics.

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 410</td>
<td>Law And Economics</td>
</tr>
<tr>
<td>EC 412</td>
<td>Industrial Organization</td>
</tr>
<tr>
<td>EC 423</td>
<td>Public Finance</td>
</tr>
<tr>
<td>EC 444</td>
<td>Political Economy of Terrorism</td>
</tr>
<tr>
<td>EC 480</td>
<td>Econ of Environment</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

**Quantitative Economics**

**Quantitative Economics**

Students must major in Economics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 126</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
</tr>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
</tr>
<tr>
<td>EC 470</td>
<td>Introduction to Mathematical Economics</td>
</tr>
<tr>
<td>EC 471</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ST 454 or</td>
<td>Mathematical Statistics I</td>
</tr>
<tr>
<td>ST 455 or</td>
<td>Mathematical Statistics II</td>
</tr>
<tr>
<td>MATH 355</td>
<td>Theory Of Probability</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>
The opportunities for students who complete a bachelor's degree in economics range from positions in banking and financial services to real estate, insurance, enterprise risk management, consulting, and the public sector. The economics major also provides excellent preparation for admission to law school, MBA programs, schools of public policy, and doctoral programs in economics, finance, or other areas of business.

Types of Jobs Accepted
Consulting firms, litigation consultant, stock broker, financial advisor, data miner, Teach for America, economist for public utilities commission.

Jobs of Experienced Alumni
Our experienced alumni hold positions such as attorney, professor of economics, credit risk manager, data miner, public policy analyst, and various management positions.

Learn more about opportunities in this field at the Career Center.

Economics, Minor

Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Business may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student's dean is required. Each student can earn only one business minor.

Except for the general business minor, which requires a minimum GPA of 2.0, non-business majors admitted to a business minor must have GPAs of 2.5 or higher for all college level and University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate student services of the Culverhouse College of Business for admission to the minor if the student’s GPA for the last 30 hours attempted is at least 2.5. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student’s GPA subsequently falls below 2.5. Provided all other enrollment requirements are met. All 300- or 400-level courses in the minor must be taken in residence at UA, unless permission is given by a business department chair to transfer a course from another four-year institution. A GPA of 2.0 or higher within the minor must be achieved in order to complete it.

The minor in economics is offered jointly by the Culverhouse College of Business and the College of Arts and Sciences; business students are allowed to complete this minor.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours of business courses (excluding EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics and ST 260 Statistical Data Analysis) without approval of the associate dean for undergraduate programs. Failure to comply with these policies will result in administrative disenrollment from business courses.

Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements.

Finance, BS

Students interested in studying finance should have strong quantitative skills, be able to think analytically, be creative in solving problems, and be able to make strategic decisions.

Finance majors must complete the core computer language requirement by taking FI 389 Financial Analysis and Modeling. Finance majors are required to select a specialization or second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with a plan approved by the department. Finance students who complete a minor other than economics (but not a second major) must also complete a specialization.

Dual Major in Finance and Mathematics

The dual major in finance and mathematics is for students looking to apply strong quantitative skills in the field of finance. This curriculum is ideal for students in pursuit of a career that requires an understanding of financial modeling or students desiring to attend graduate school.

Students in this degree program are formally enrolled in the Culverhouse College of Business, but the curriculum is determined by both the College of Business and the College of Arts and Sciences. Students are not required to select a mathematics track when pursuing this dual major.

Finance Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 111</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>EC electives (300 or 400 level)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Economics Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 309</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FI 301</td>
<td>Intro Financial Inst. &amp; Mkts</td>
<td>3</td>
</tr>
<tr>
<td>FI 410</td>
<td>Intermediate Financial Mgt</td>
<td>3</td>
</tr>
<tr>
<td>FI 412</td>
<td>Money &amp; Capital Markets</td>
<td>3</td>
</tr>
<tr>
<td>FI 414</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Financial Analysis and Modeling Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
**Mathematics Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 227</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 238</td>
<td>Appl Diff Equations I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 355</td>
<td>Theory Of Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
<td>3</td>
</tr>
<tr>
<td>MATH electives (300- or 400-level)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

1. The following courses cannot be counted as MATH electives: MATH 402 History Of Mathematics and MATH 405 Geometry For Teachers.

**Specializations in Finance**

**Actuarial Science**

Not open to General Business majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; MATH 126</td>
<td>and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 227</td>
<td>and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>EC 413</td>
<td>Econ Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FI 341</td>
<td>Fund. of Risk Mgt. &amp; Ins.</td>
<td>3</td>
</tr>
<tr>
<td>FI 389</td>
<td>Financial Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>FI 419</td>
<td>Financial Derivatives</td>
<td>3</td>
</tr>
<tr>
<td>FI 497</td>
<td>Special Topics In Finance (1 hour of P exam prep, 3 hours of FM exam prep)</td>
<td>4</td>
</tr>
<tr>
<td>ST 450</td>
<td>Statistical Methods in Research I (Prerequisite for ST 452)</td>
<td>3</td>
</tr>
<tr>
<td>ST 452</td>
<td>Applied Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ST 454 or</td>
<td>Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Math Stats W/Applictn I</td>
<td>3</td>
</tr>
<tr>
<td>ST 455 or</td>
<td>Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 452</td>
<td>Math Stats W/Applictn II</td>
<td>3</td>
</tr>
<tr>
<td>Non-Finance major requirements ¹</td>
<td></td>
<td>0-6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>40-46</td>
</tr>
</tbody>
</table>

¹ Non-Finance majors will need to take FI 410 Intermediate Financial Mgt and FI 414 Investments if they plan to sit for the actuarial exams.

**Banking & Financial Services**

Students must major in Finance.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 352</td>
<td>Corporate Financial Reporting</td>
<td>3</td>
</tr>
<tr>
<td>FI 341</td>
<td>Fund. of Risk Mgt. &amp; Ins.</td>
<td>3</td>
</tr>
<tr>
<td>FI 421</td>
<td>Bank Administration</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Finance**

For non-Finance majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FI 301</td>
<td>Intro Financial Inst. &amp; Mkts</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Insurance & Financial Services: Risk Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FI 341</td>
<td>Fund. of Risk Mgt. &amp; Ins.</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>FI 360</td>
<td>Personal Asset Management</td>
<td>3</td>
</tr>
<tr>
<td>FI 442</td>
<td>Business Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FI 443</td>
<td>Property Liability Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FI 444</td>
<td>Life &amp; Health Insurance</td>
<td>3</td>
</tr>
<tr>
<td>LGS 403</td>
<td>Estates &amp; Trusts</td>
<td>3</td>
</tr>
</tbody>
</table>

**International Finance**

Students must major in Finance, take at least three years (six semesters) of foreign languages, and spend a semester abroad.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 430</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>FI 431</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>EC 442</td>
<td>Econ Develop Of Lat Am</td>
<td>3</td>
</tr>
</tbody>
</table>

**Investment Management**

Students must major in Finance.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 352</td>
<td>Corporate Financial Reporting</td>
<td>3</td>
</tr>
<tr>
<td>FI 415</td>
<td>Advanced Investment Topics</td>
<td>3</td>
</tr>
<tr>
<td>FI 419</td>
<td>Financial Derivatives</td>
<td>3</td>
</tr>
</tbody>
</table>

**Personal Wealth Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 371</td>
<td>Introduction To Taxation</td>
<td>3</td>
</tr>
<tr>
<td>FI 341</td>
<td>Fund. of Risk Mgt. &amp; Ins.</td>
<td>3</td>
</tr>
<tr>
<td>FI 360</td>
<td>Personal Asset Management</td>
<td>3</td>
</tr>
<tr>
<td>FI 444</td>
<td>Life &amp; Health Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FI 460</td>
<td>Advanced Financial Planning</td>
<td>3</td>
</tr>
<tr>
<td>LGS 403</td>
<td>Estates &amp; Trusts</td>
<td>3</td>
</tr>
<tr>
<td>Non-Finance major requirements ¹</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>18-21</td>
</tr>
</tbody>
</table>

¹ Non-Finance majors will need to take FI 414 Investments to sit for the CFP exam.

**Quantitative Finance**

Students must major in Finance.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
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<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>
EC 413 Econ Forecasting & Analysis 3
FI 419 Financial Derivatives 3
ST 454 or Mathematical Statistics I 3
MATH 355 Theory Of Probability
ST 455 or Mathematical Statistics II 3
MATH 451 Math Stats W/Applictn I

Total Hours 27

Real Estate
Real Estate Hours
FI 331 Principles of Real Estate 3
FI 436 Real Estate Financing 3
Select two of the following: 6
CE 463 Construction Cost Estimating
FI 334 Introduction to Real Estate Property Management
FI 432 Real Estate Appraisal
LGS 407 Real & Personal Property

Total Hours 12

Value Investing
Value Investing Specialization Hours
AC 444 Financial Analysis - Investing 3
FI 415 Advanced Investment Topics 3
FI 417 Value Investing Principles 3

Total Hours 9

The opportunities for students who complete a bachelor’s degree in finance include positions in banking and financial services, corporate finance, investment management, real estate, insurance enterprise risk management, consulting, and the public sector.

Types of Jobs Accepted
Recent graduates take entry-level jobs as actuary; financial analyst; loan officer; investment advisor; personal financial planner; insurance company agent in operations, underwriting, claims and brokerage; and real estate developer.

Jobs of Experienced Alumni
Our alumni hold positions in areas such as asset management, investment banking and management, corporate finance, financial services, sales and trading, real estate portfolio management, and bank examination.

Learn more about opportunities in this field at the Career Center

Department of Information Systems, Statistics and Management Science

Professor John Mittenthal, Department Head
Office: 300 Alston Hall

The department of information systems, statistics and management science provides students with opportunities to learn about the design and development of information systems, the application of statistical analysis to support business decision making and the design and analysis of business operations and processes. The department has three functional areas: management information systems, operations management and statistics.

The management information systems (MIS) faculty offer an introductory course in MIS, as well as courses for students majoring in MIS. The MIS program partners with a range of businesses and organizations to prepare students to leverage information technology to solve business problems.

The operations management faculty offer introductory courses in operations as well as courses for students majoring in operations management and those students specializing in supply chain management. The OM program has strong relationships with manufacturers, distributors, retailers, transportation carriers and logistics service providers.

The statistics faculty offer introductory statistics courses for undergraduate students. The statistics program supports the business analytics initiative for the College and has strong partnerships with leading providers of business analytics software.

• Majors
  • Management Information Systems (BS) (p. 1204)
  • Operations Management (BS) (p. 1205)

[Object Object] MIS200 Fundamentals of Management Information Systems Hours 3
Business process coordination and decision making through the use of information technology will be explored, emphasizing IT use by organizations in increasingly global markets.

Prerequisite(s): CS 102 or CS 100 or CS 104 or CS 150 with a grade of C- or higher; or UA Computer Science Placement Test Score of 380

OM300 Intro Operations Management Hours 3
This course is an introduction to the field of operations management and addresses the design and management of the activities and resources that a firm uses to produce and deliver its products or services. Topics include operations strategy, product and process design, total quality management, statistical quality control, supply chain management, location analysis, forecasting, inventory management, operations planning, and lean/JIT business processes. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260
ST260 Statistical Data Analysis
C
Hours 3
Introduction to the use of basic statistical concepts in business applications. Topics include extensive graphing; descriptive statistics; measures of central tendency and variation; regression, including transformations for curvature; sampling techniques; designs; conditional probability; random variables; probability distributions; sampling distributions; confidence intervals; and statistical inference. Computer software applications are utilized extensively. Emphasis throughout the course is on interpretation. Computing proficiency is required for a passing grade in this course. Students are limited to three attempts for this course, excluding withdrawals.
Prerequisite(s): MATH 112 or MATH 115 or MATH 121 or MATH 125 or MATH 126 or MATH 145 or MATH 146; and CS 102 or CS 150 or CS 100 or CS 120 or CS 104 or GES 131 or GES 145 or UA Computer Placement Test Score of 380; minimum grade of C- required in any qualifying prerequisite.

Computer Science
View All Courses

Faculty
Department Head
Mittenthal, John
Professors
Chakraborti, Subha
Hale, David
Hale, Joanne
McManus, Denise
Mittenthal, John
Raja, Uzma
Associate professors
Barrett, Bruce
Keskin, Burcu
Melnykov, Volodymyr
Melouk, Sharif
Perry, Marcus
Porter, Michael
Raja, Uzma
Yavuz, Mesut
Assistant professors
Bott, Gregory
Chen, Yuanyuan
Freeman, Nick
Hudnall, Matthew
Jena, Rishi
Melnykov, Yana
Murali, Karthik
Spurrier, Gary

Instructors
Casselman, Brad
Chilcutt, Nathan
Cottrell, Greg
Davis, Cali
Nunnely, Jennifer

Management Information Systems, MIS

Students should be interested in how to apply technology to improve business and quality of life for individuals. MIS is where business meets technology. Students should be interested in jump-starting their careers to become business analysts, consultants, innovators, and entrepreneurs. Students interested in MIS are typically good problem solvers, can multi-task, like a challenge, like working on new projects, can handle ambiguity, like to work in teams, are not discouraged easily, can see both the big picture and work on the detail, and will work hard for high payoff. Students should consider specializations available in the business school to supplement the core business and MIS curriculum, including areas such as: management communications, professional sales, international business, supply-chain management, and accounting. Some students minor in computer science or a foreign language.

Academic Advisor: Heather Davis

The MIS program focuses on the innovation of business-oriented information technology to open new markets and improve business operations by leveraging information systems. Students learn to combine knowledge of core business and technology to excel in future careers such as business analyst, consultant or app designer. Graduates choose from opportunities in consulting, corporate, government, not-for-profit, and start-up organizations.

The program culminates with a two-semester, industry-sponsored practicum project beginning with situational analysis, then proceeding through cause and effect analysis--determining the features needed to solve the problem--and then designing, building, testing, and delivering the business solution. This emphasis on experiential learning through application of classroom concepts results in graduates who are highly sought after by firms across the nation.

Continual client feedback and faculty guidance ensure project success and educational growth. Students in MIS are encouraged to broaden their business and international knowledge through a specialization in marketing, accounting, finance, operations management, or international studies/foreign language. The MIS program and corporations sponsor more than 90 scholarships solely for MIS majors. Prospective students are encouraged to find out more about the MIS program by visiting culverhouse.ua.edu/mis or calling the program office at 205-348-6085 to set up a visit with a student ambassador or faculty member.

Hours

Major Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 220</td>
<td>Applicatn &amp; Info Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MIS 320</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>MIS 340</td>
<td>Data Com in Global Environment</td>
<td>3</td>
</tr>
<tr>
<td>MIS 430</td>
<td>Systems Analysis &amp; Design I</td>
<td>3</td>
</tr>
<tr>
<td>MIS 431</td>
<td>Systems Analysis &amp; Design II</td>
<td>3</td>
</tr>
</tbody>
</table>

MIS 220 is a prerequisite for all major courses.
Admission and Retention Policies

Each prospective MIS student must submit an application verifying that all admission criteria have been met. A student is eligible for admission if he or she:

- meets the admission criteria to the upper division of the Culverhouse College of Business
- has completed at least 60 semester hours of college credit with a cumulative GPA of 2.5 or higher for all coursework attempted or a GPA of at least 3.0 for the last 30 hours attempted
- has completed MIS 220 Business Programming II with grade of C- or higher

MIS 200 Fundamentals of Management Information Systems is an introductory course for non-majors and can be taken by freshmen.

MIS majors must complete all required MIS courses with a grade of C- or higher. A student who enrolls in any of the required MIS courses twice and fails to earn a passing grade will not be permitted to take additional MIS courses or to receive a degree with MIS as the major from The University of Alabama. Enrollment is defined as registration for a course that results in the recording of hours attempted on the student’s record. A grade of W is counted as an enrollment. Priority for enrollment in upper-division MIS courses is given to students who are not repeating the courses.

MIS majors are among the most sought-after graduates, with virtually 100% placement. Graduates go to leading consulting firms, corporations and startups.

Types of Jobs Accepted

Graduates have accepted positions with leading national consulting firms and at Headquarters for Alfa, AT&T, Equifax, IBM, Home Depot, HP, Lowe’s, P&G, Southern Co., and Walmart. Positions include business analyst, startup entrepreneur, consultant, programmer analyst, project manager and risk analyst.

Jobs of Experienced Alumni

Experienced MIS professionals continue to rise in their organizations to positions that include president/CEO, chief information officer, global partner, executive vice-president, chief analyst, chief technology officer, partner, senior executive, director, program manager, solutions architect and team manager.

Learn more about opportunities in this field at the Career Center

Operations Management, BS

Areas of interest for operations management students include process analysis and improvement, quality control, production planning, inventory management, manufacturing, supply chain management, logistics, transportation, and procurement. Operations management focuses on the effective management of the resources and activities that produce and deliver the goods and services of any business. OM professionals manage the people, materials, equipment and information resources that a business needs in order to produce and deliver its goods and services. They also design and manage the business processes and activities that actually produce those goods and services.

Academic Advisor: Heather Davis

Business operations are a critical element of every business, so there are a wide range of opportunities for OM professionals. Manufacturing management has been—and continues to be—a significant area of opportunity. The tremendous growth of the automotive industry in the state of Alabama has produced great job opportunities for OM professionals with major automobile manufacturers and their suppliers. OM professionals can also pursue careers in the distribution and warehousing of products, as well as transportation and logistics operations. The entire field of supply chain management relies heavily on the effective management and coordination of business operations, from manufacturing to transportation and distribution. Whether products sold in the U.S. are manufactured overseas or in the U.S., some part of the supply chain is operated and managed in the U.S.

The growth of service industries in the state (banking, for example) also provides opportunities for OM professionals to manage business operations in service-oriented companies. OM professionals hold a wide range of job titles, such as materials manager, production planner, scheduler, inventory manager, transportation/logistics manager, purchasing/procurement manager, supply chain manager and quality manager. All of these positions employ OM techniques and concepts to effectively manage the resources and processes of their business operations. Because OM professionals are familiar with the resources and operations that are critical to success, they are often well-positioned for promotion to upper levels of business management. OM majors must take OM 305 Information Technology for Operations Management to complete their core computer language requirement.

Admission and Retention Policies

Each prospective OM student must submit an application demonstrating that all criteria for admission have been met. Students are eligible for admission to the program if they meet the criteria for admission to the upper division of the College of Business. A student whose grade point average falls below these standards may petition for admission to the upper division and declare Operations Management if the student’s grade point average for the last 30 hours attempted at this institution is 2.5 or higher.

Operations Management majors must complete all required OM courses with a grade of C- or higher. A student who enrolls in any of these courses twice and fails to make a grade of C- or higher will not be permitted to take additional OM courses without special permission. Enrollment is defined as registration for a course resulting in the recording of hours attempted on the student’s record. Priority for enrollment in upper-division OM courses is given to students who are not repeating the courses.

Operations Management majors must complete the core Computer Language requirement by taking OM 305 Information Technology for OM. Operations Management majors must also complete a specialization or a second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with
a plan approved by the department. Students who complete a minor (but not a second major) must also complete a specialization.

### Specializations

**Supply Chain Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OM 417</td>
<td>Logistics Management</td>
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</tr>
<tr>
<td>OM 427</td>
<td>Purchasing and Sourcing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 422</td>
<td>Supply Chain Strategy</td>
<td>3</td>
</tr>
<tr>
<td>IBA 460</td>
<td>Export/Import Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 12

Our graduates have accepted positions with Frito-Lay, Nucor Steel, US Steel, Scot Industries, Trademark Metals, BMW, Mercedes, Honda, Hyundai, Johnson Controls, Halliburton, Schlumberger, Target Distribution, Walmart Distribution, JCPenney, AMCOM, and many more.

### Types of Jobs Accepted

- operations manager, materials manager, production planner, logistics manager, quality manager, plant manager, supply chain manager, inventory manager, purchasing manager, production manager

### Jobs of Experienced Alumni

- chief operations officer (COO), vice president of operations, vice president of supply chain, plant manager, logistics director

Learn more about opportunities in this field at the Career Center

### Department of Management

Professor James E. King, Department Head

Office: 104 Alston Hall

Every successful person, at some point, has to manage others. Some people experience this early in their careers when they are appointed to lead a key team on a major project. Others may encounter the experience later as a successful business venture requires hiring additional people. No matter when it happens, you will likely need, use, and desire skills taught within the Department of Management.

Students enrolled in management courses hone skills and add to their knowledge base through courses in leadership, innovation, communication, and decision making. The content taught within these classes is supplemented by the latest trends in technology and by the global perspective necessary for success in today's multicultural world.

Faculty within the Department of Management stay on the leading edge of current trends and research findings and remain dedicated to making sure that each student has a meaningful educational experience in all of our classes.

The Department of Management includes these majors and specializations:

- Majors
  - General Business (BS) (p. 1208)
  - Management (BS) (p. 1209)

- Minors for Non-Business Majors
  - Management (p. 1211)
  - General Business (p. 1208)
  - Entrepreneurship (p. 1207)

- Certificate Programs

- Analytical Excellence in Business (p. 1207)
- Ethics and Social Responsibility (p. 1208)

[object Object]

MGT286 Entrepreneurship, Creativity and Ideation

Hours 3

Provide students with the skills necessary to apply business creativity in developing innovative solutions to problems in uncertain and dynamic business environments.

HCM360 Introduction to Health Systems

Hours 3

Detailed study of components of the health care delivery system in the United States. The course emphasizes history, roles, and interactions of the various providers, consumers, and governments.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260 and CS 102

Prerequisite(s) with concurrency: MGT 300

GBA145 Freshman Compass: CBA

FCMP

Hours 1

An introduction to the Culverhouse College of Business. Topics include adjustment to college life, study skills, career exploration, and majors offered in the College.

Freshman Compass

View All Courses

### Faculty

#### Department Head

James E. King

#### Professors

- Daniel E. Bachrach
- Ronald E. Dulek
- Jonathon R. Halbesleben
- William E. Jackson, III
- Louis D. Marino
- A.J. Strickland, III
- Theresa M. Welbourne
- Eric S. Williams

#### Associate professors

- Craig E. Armstrong
- Paul L. Drnevich
- Michael T. Ford
- Vishal K. Gupta
- Jeffrey A. Martin
- Russell A. Matthews
- Marilyn V. Whitman

#### Assistant professors

- Justin A. DeSimone
Taking the classes required for the Analytical Excellence Certificate in Business will give students the best possible background for graduate work in business or for work in the most technically demanding areas. This program allows talented students to use the math skills they acquired in high school and to develop quantitative skills equivalent to those developed by engineering graduates. In addition, the designation allows them to signal to employers and others that they have completed a special curriculum. The required courses include the regular calculus sequence. After completing the calculus sequence, students in the program have the choice of several additional classes to complete the program. Students who complete this program will be excellent candidates to enroll in the best graduate business programs in the country.

A cumulative UA GPA of 3.5 at graduation is required to complete this certificate.

This certificate is only available to students in the Culverhouse College of Business. Interested students should contact the Department of Finance, Economics and Legal Studies in 200 Alston Hall.

**Entrepreneurship, Minor**

**Minors in Business for Non-Business Majors**

Students enrolled in divisions of the University other than the Culverhouse College of Business may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student’s dean is required. Each student can earn only one business minor.

Except for the general business minor, which requires a minimum GPA of 2.0, non-business majors admitted to a business minor must have GPAs of 2.5 or higher for all college level and University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate student services of the Culverhouse College of Business for admission to the minor if the student’s GPA for the last 30 hours attempted is at least 2.5. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student’s GPA subsequently falls below a 2.5, provided all other enrollment requirements are met. All 300- or 400-level courses in the minor must be taken in residence at UA, unless permission is given by a Business department chair to transfer a course from another four-year institution. A GPA of 2.0 or higher within the minor must be achieved in order to complete it.

The minor in economics is offered jointly by the Culverhouse College of Business and the College of Arts and Sciences; business students are allowed to complete this minor.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours of business courses (excluding EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics and ST 260 Statistical Data Analysis) without approval of the associate dean for undergraduate programs. Failure to comply with these policies will result in administrative disenrollment from business courses.

Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements.
### Ethics and Social Responsibility, Certificate

Students in business are encouraged to complete a Certificate in Ethics and Social Responsibility, which will be recognized on their transcripts. Goals of the program are to increase students' abilities to recognize moral dilemmas and exercise moral decision-making abilities, and to develop insights into contemporary ethical issues faced by individuals and organizations. In addition, a goal of the program is to focus campus attention on the importance of addressing ethical issues and creating graduates who will be recognized for having formally addressed these issues.

#### Requirements

1. one course with a primary ethics and social responsibility focus (recommended: PHL 292 Introduction to Ethics or MGT 341 Business Ethics)
2. one course in service learning (click here for a list), or participation in the Moral Forum
3. participation in three activities or events (at lease one should be held each semester) with approved ethics and social responsibility content, to include presentations on relevant subjects and discussion sessions covering readings or other assignments

Culverhouse students interested in this certificate should contact the Department of Management in 100 Alston Hall.

### General Business, BS

Students gain a broad set of skills and knowledge about general business operations.

The general business major program is designed for students desiring a broad understanding of business that spans all facets of the business enterprise, providing them with a broad philosophical and economic perspective about business operations.

This major is intended for business students who wish to gain breadth within their undergraduate studies. It is particularly appropriate for students who wish to combine a study of business with a minor or extended coursework in a non-business field. The general business major is also suitable for students who intend to pursue a specialized master’s degree in business or who are interested in law school or other professional fields.

A minimum GPA of 2.0 is required for admission to the general business major.

#### General Business, Minor

### Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Business may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student’s dean is required. Each student can earn only one business minor.

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Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements.

**Management, BS**

Management majors are typically interested in introductory management training programs such as learning how to start a business, understanding the workings of health care organizations, and gaining insight into how human resources work in organizations.

The management major provides students the opportunity to develop analytical and interpersonal skills that create value for any enterprise. Students learn to efficiently organize and use the organization’s assets, especially its human assets, in a manner appropriate to 21st century enterprises. Students develop their skills and talents through 27 hours of coursework, including one foundational course, “Leadership and Ethics,” and a collection of eight courses within one specialized area, or specialization. The three specializations that may be applied toward the management major are entrepreneurship, health care analytics, and human resource management. These specializations provide students with the in-depth knowledge and experiences necessary to compete in today’s complex marketplace. Many graduates secure careers in such fields as corporate development, family business, health care management, human resource management, and corporate communication. Others choose to continue their education by attending some of the best graduate programs in the nation.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Requirements</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>MGT 320 Leadership and Ethics</td>
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<td>Credit Hours Subtotal:</td>
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</table>

**Specialization**

Select one of the following specializations:

- Entrepreneurship
- Health Care Analytics
- Human Resource Management

<table>
<thead>
<tr>
<th>Hours</th>
<th>Entrepreneurship</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Credit Hours Subtotal:</td>
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</tbody>
</table>

**Total Hours** 27

### Specializations

#### Entrepreneurship

Faculty Contact: Dr. Louis D. Marino

The mission of the entrepreneurship focus area in the management major is to equip students with the knowledge, skills and abilities necessary to identify and evaluate opportunities, and then to capitalize on these opportunities by innovating within existing firms or founding new ventures. Students in this focus area will work closely with faculty and experienced entrepreneurs to gain hands-on experience in key activities necessary to build sound business models and acquire critical resources as they innovate and create profitable enterprises. Above all, this focus is for those special students who wish to be leaders and have a passion for starting something.

**Entrepreneurship**

This Specialization may be applied toward the Management Major.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Requirements</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MGT 386 Foundations of Entrepreneurship</td>
</tr>
<tr>
<td></td>
<td>MGT 387 Creating, Recognizing, Evaluating and Pitching Opportunities</td>
</tr>
<tr>
<td></td>
<td>MGT 388 Starting New Ventures</td>
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<td></td>
<td>MGT 481 New Venture Finance</td>
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<tr>
<td></td>
<td>Capstone Experience - select one:</td>
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<tr>
<td></td>
<td>Small Business Management</td>
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<td></td>
<td>Small Business Consulting</td>
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<td></td>
<td>Technology Commercialization</td>
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<td>Managing Innovation</td>
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<td>Electives - select two of the following:</td>
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<tr>
<td></td>
<td>EC 410 Law And Economics</td>
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<tr>
<td></td>
<td>FI 331 Principles of Real Estate</td>
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<tr>
<td></td>
<td>HCM 360 Introduction to Health Systems</td>
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<tr>
<td></td>
<td>IBA 350 Introduction to World Business</td>
</tr>
<tr>
<td></td>
<td>IBA 460 Export/Import Management</td>
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<td></td>
<td>LGS 407 Real &amp; Personal Property</td>
</tr>
<tr>
<td></td>
<td>MGT 301 Intro to HR Management</td>
</tr>
<tr>
<td></td>
<td>MGT 310 Practicum in Management</td>
</tr>
</tbody>
</table>
MGT 322  Effective Negotiations
MGT 406  Family Business Management
MGT 412  Management Presentations
MGT 421  Corp. Entprnrshp & Innovation
MGT 452  Project Mgmt Communication
MKT 321  Retail Management
MKT 337  Personal Selling
MKT 376  Services Marketing
MKT 411  Supply Chain Management
OM 427  Purchasing and Sourcing

Total Hours  24

Health Care Analytics
Faculty Contact: Dr. Marilyn V. Whitman

The health care analytics specialization provides undergraduate students with the skills to meet the complex needs of healthcare organizations. Students in the healthcare analytics specialization learn how to harness data, process the data and produce evidence-based decisions. The daunting challenges confronting healthcare organizations today will require smarter, more informed decisions driven by data to improve outcomes and offer the value that market dynamics, governmental regulations and consumers demand. The eight-course sequence aims to develop analytics competencies in our students to prepare them for entry-level analyst positions in a variety of healthcare settings.

Health Care Analytics

This Specialization may be applied toward the Management Major.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 360</td>
<td>Introduction to Health Systems</td>
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<tr>
<td>HCM 361</td>
<td>Healthcare Finance and Reimbursement</td>
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<tr>
<td>HCM 362</td>
<td>Health Information Systems</td>
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</tr>
<tr>
<td>HCM 463</td>
<td>Healthcare Systems Improvement</td>
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</tr>
<tr>
<td>HCM 464</td>
<td>Healthcare Data Mining</td>
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<tr>
<td>HCM 465</td>
<td>Healthcare Analytics Projects</td>
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<td>MGT 452</td>
<td>Project Mgmt Communication</td>
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Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HCM 492</td>
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<td>MGT 301</td>
<td>Intro to HR Management</td>
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<td>MGT 310</td>
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<td>Effective Negotiations</td>
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<td>MGT 386</td>
<td>Foundations of Entrepreneurship</td>
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<td>MGT 412</td>
<td>Management Presentations</td>
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<tr>
<td>MGT 422</td>
<td>Leadership Communication</td>
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</table>

Total Hours  24

Human Resource Management

This Specialization may be applied toward the Management Major.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MGT 301</td>
<td>Intro to HR Management</td>
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</tr>
<tr>
<td>MGT 431</td>
<td>Employee Recruitment, Selection, and Placement</td>
<td>3</td>
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<tr>
<td>MGT 432</td>
<td>Employee Relations</td>
<td>3</td>
</tr>
<tr>
<td>MGT 433</td>
<td>Compensation &amp; Performance Mgt</td>
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<tr>
<td>MGT 434</td>
<td>Training and Development</td>
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<tr>
<td>MGT 437</td>
<td>Strategic HR Management</td>
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</table>

Select two of the following:

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<td>MGT 412</td>
<td>Management Presentations</td>
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<td>MGT 420</td>
<td>Organizational Change</td>
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<td>MGT 422</td>
<td>Leadership Communication</td>
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<td>MGT 452</td>
<td>Project Mgmt Communication</td>
<td></td>
</tr>
<tr>
<td>MGT 492</td>
<td>Internship In HRM</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours  24

The types of jobs available to our graduates include entry level positions, supervisory jobs, foremen, team leaders, and middle and upper management. Those with a master's degree may obtain careers in human resources or international management, or start their own business. Doctoral degrees usually take on academic positions such as assistant professor, associate professor, and professor.

Types of Jobs Accepted
management trainees, business owner, assistant administrator, assistant manager, customer service rep, patient flow specialist and recruiter

Jobs of Experienced Alumni
Experienced alums currently hold the following types of positions: chief executive officer, chief financial officer, owner of own business, vice president of people, director of human resource management, and health care administrator, to name a few. At the doctoral level, alumni obtain professorial positions.

Learn more about opportunities in this field at the Career Center

Faculty

Chair
James E. King

Professors
Daniel E. Bachrach
Ronald E. Dulek
Jonathon R. Halbesleben
William E. Jackson, III
Louis D. Marino
A.J. Strickland, III
Theresa M. Welbourne
Eric. S. Williams
Associate professors
Craig E. Armstrong
Paul L. Drnevich
Michael T. Ford
Vishal K. Gupta
Jeffrey A. Martin
Russell A. Matthews
Marilyn V. Whitman

Assistant professors
Justin A. DeSimone
Thomas M. English
Peter D. Harms
Dwight W. Lewis
Maura J. Mills
Jefrey S. Naidoo
Kimberly L. Stowers

Instructors
Larry E. Baldwin
Jessica N. Crew
David M. Ford
Chapman L. Greer
J. Gorman Houston
Erica E. Lankford
Joyce L. Meyer
Sarah E. Miesse
Heather N. Shipley
Regina W. Simpson
Rachael R. Smallwood
Kimberley A. Williams

Management, Minor
Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Business may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student’s dean is required. Each student can earn only one business minor.

Except for the general business minor, which requires a minimum GPA of 2.0, non-business majors admitted to a business minor must have GPAs of 2.5 or higher for all college level and University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate student services of the Culverhouse College of Business for admission to the minor if the student’s GPA for the last 30 hours attempted is at least 2.5. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student’s GPA subsequently falls below a 2.5, provided all other enrollment requirements are met. All 300- or 400-level courses in the minor must be taken in residence at UA, unless permission is given by a Business department chair to transfer a course from another four-year institution. A GPA of 2.0 or higher within the minor must be achieved in order to complete it.

The minor in economics is offered jointly by the Culverhouse College of Business and the College of Arts and Sciences; business students are allowed to complete this minor.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours of business courses (excluding EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics and ST 260 Statistical Data Analysis) without approval of the associate dean for undergraduate programs. Failure to comply with these policies will result in administrative disenrollment from business courses.

Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 210</td>
<td>Intro To Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MGT 300</td>
<td>Org Theory &amp; Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 301</td>
<td>Intro to HR Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 320</td>
<td>Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 386</td>
<td>Foundations of Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>IBA 351</td>
<td>Multinat'l Bus. Communication</td>
<td>6</td>
</tr>
<tr>
<td>MGT 341</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>MGT 420</td>
<td>Organizational Change</td>
<td></td>
</tr>
<tr>
<td>MGT 421</td>
<td>Corp. Entprnrshp &amp; Innovation</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

1. EC 110 Principles of Microeconomics is a prerequisite for AC 210 Intro To Accounting.

Department of Marketing

Professor Kristy Reynolds, Interim Department Head
Office: 109 Alston Hall

The marketing department at Culverhouse is for students whose interest is in the customer interface in either an industrial (business to business) or consumer (business to consumer) setting. Marketing is the process by which businesses communicate their intrinsic value to customers and other businesses. Marketing majors learn how to communicate value to customers, win customer trust and maintain and enrich customer relationships by delivering world-class products and services; and they apply this knowledge through real-world projects. Success in the marketplace requires firms to develop and execute marketing strategies that consider such factors as customers, competitors, economic conditions and global opportunities. In support of a firm’s customer-focused mission, marketers engage in such activities as professional selling, services marketing, new product development, supply chain management, global marketing and social media marketing, as well as
the research and strategic planning activities that undergird all activities in today’s data-driven economy.

The marketing faculty is dedicated to student success. They bring real-world corporate experience to the classroom, and our programs are designed to enhance the student-corporate interface through on-campus corporate visits, internships, mentoring opportunities and jobs.

- Major
  - Marketing (BS) (p. 1212)
- Minor for Non-Business Majors
  - World Business (p. 1214)

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Business must have earned a minimum of 60 credit hours.

All Business students, prior to registering for any 300- or 400-level Business course, must complete or be enrolled in the following courses (or their equivalents): AC 210 Intro To Accounting, EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics, LGS 200 Legal Environment of Business, MATH 121 Calculus & Applications or MATH 125 Calculus I, and ST 260 Statistical Data Analysis. Failure to complete these prerequisites prior to attempting a 300- or 400-level Business course will result in administrative disenrollment from that course.

**MKT300 Marketing**
Hours 3

A survey course that describes the nature of domestic and global marketing management. Emphasis is placed on market analysis to include consumer, industrial, institutional, and governmental markets for goods and services. Also emphasized are the marketing management functions of planning, pricing, promoting, and distributing goods and services in business and nonprofit contexts. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (MATH 121 or MATH 125 or MATH 145) and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260

**MKT310 Principles of Social Media**
Hours 3

A survey of interactive, electronic media and technology that enable organizations to 1) acquire products, services and materials from suppliers, 2) market goods and services to customers, 3) allow members of the organization to communicate with each other, and 4) monitor the external environment. Students develop e-commerce-related skills to design and execute a firm’s marketing efforts, including Web project management, electronic market development and management, Web-enabled selling, and other emerging areas of marketing.

Prerequisite(s): MKT 300

**IBA250 Context of Global Business**
Hours 3

A broad introduction to international business providing students with an overview of the terms and concepts key to a better understanding of the complex business environment across the world’s interrelated economies.

Prerequisite(s): EC 110 and EC 111

**Faculty**

**Chair**
Kristy Reynolds

**Professors**
Arthur W. Allaway
Alexander E. Ellinger
George R. Franke
Robert M. Morgan
Kristy E. Reynolds
Clay Voorhees

**Associate professors**
Thomas L. Baker
Giles D. D’Souza
Peter Magnusson
Nancy Sirianni

**Assistant professors**
Carlos Bauer
Jack Clampit
Sebastian Forkmann
Bryan Hochstein
Christine Ringler
Stacey Robinson
Stanford Westjohn

**Instructors**
James P. Brown
Joe Calamusa
Susan Fant
Diana Gomez
Pamela Hill
Elizabeth Jernigan
Michael Pope
Jenna Stiffler
Joel Strayer
Harold Wright

**Professor emerita**
Sharon E. Beatty

**Marketing, BS**

Marketing provides a broad set of skills and interests that cover sales, retail operations, research skills, and import/export operations and logistics.

Marketing is primarily concerned with two main concepts: the identification and assessment of consumer and industrial market needs and the development of marketing programs to satisfy those needs. Marketing personnel in profit and nonprofit organizations analyze markets and industries to define new opportunities and refine existing opportunities. Marketers also are responsible for
developing and managing products and services, along with promotion, distribution, and pricing appropriate to the targeted market opportunities. Students who major in marketing enjoy a wide range of employment opportunities. These include sales and sales management, services marketing, retailing, brand management, market research, distribution and logistics, and advertising.

**Requirements**

A minimum grade of C- is required for each course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 313</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKT 337</td>
<td>Personal Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKT 410</td>
<td>Managing Innovation</td>
<td>3</td>
</tr>
<tr>
<td>MKT 411</td>
<td>Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 473</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MKT 487</td>
<td>Strategic Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 18

**Prerequisites**

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Business must have earned a minimum of 60 credit hours.

All Business students, prior to registering for any 300- or 400-level Business course, must complete or be enrolled in the following courses (or their equivalents): AC 210 Intro To Accounting, EC 110 Principles of Microeconomics, EC 111 Principles of Macroeconomics, LGS 200 Legal Environment of Business, MATH 121 Calculus & Applications or MATH 125 Calculus I, and ST 260 Statistical Data Analysis. Failure to complete these prerequisites prior to attempting a 300- or 400-level Business course will result in administrative disenrollment from that course.

**Specializations**

The internationalization of business is a critical reality to those operating in the modern world business. Understanding cross-cultural differences in markets and business practices and adopting an international competitive mindset is critical to the success of today's business leaders. The international business specialization is designed for students who are interested in entering the international arena. This program is designed for students of any major, with electives that span such areas as marketing, management, economics and finance. Due to the nature of international business, this specialization requires 12-15 total hours, including an overseas study component.

**International Business**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBA 350</td>
<td>Introduction to World Business</td>
<td>3</td>
</tr>
<tr>
<td>IBA 351</td>
<td>Multinat’l Bus. Communication</td>
<td>3</td>
</tr>
<tr>
<td>IBA 460</td>
<td>Export/Import Management</td>
<td>3</td>
</tr>
<tr>
<td>Approved Study Abroad course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following electives: (^1)</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>IBA 455</td>
<td>Global Marketing</td>
<td></td>
</tr>
<tr>
<td>EC 430</td>
<td>International Trade</td>
<td></td>
</tr>
<tr>
<td>EC 442</td>
<td>Econ Develop Of Lat Am</td>
<td></td>
</tr>
<tr>
<td>EC 431 or</td>
<td>International Finance</td>
<td></td>
</tr>
<tr>
<td>FI 431</td>
<td>International Finance</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12-15

\(^1\) In program-approved situations, the global elective and the study abroad class could be one and the same (e.g., the global accounting standards class offered abroad by the accounting department).

Sales is a program of preparation for students that want to fast-track their business careers. This concentration provides:

1. practical application of sales and self-preservation techniques
2. access and exposure to business recruiters from Fortune 100 companies
3. valuable persuasion and communication skills that can be used to advance any career in business

Professional sales is a career that is very much in demand. There are still more job openings than qualified applicants. Also, the benefits and compensation packages for professional sales positions make it one of the highest paid fields in marketing.

**Professional Sales**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 337</td>
<td>Personal Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKT 437</td>
<td>Advanced Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKT 438</td>
<td>Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 439</td>
<td>Key Account Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

Services are now a major driver of the U.S. and world economy. Therefore, marketing and management in the areas of people, business process and the design of physical space are of great importance. The ability to understand, map, design and re-design business service processes, flow and physical space across the value chain is critical, as is the ability to manage service employees and teams. Services marketing is a specialization designed for students interested in working in and managing teams of people to analyze, develop and deliver world-class service, manage customer relationships and work cross-functionally with other aspects of the organization such as sales, logistics and operations.

**Services Marketing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 376</td>
<td>Services Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 476</td>
<td>Services Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 477</td>
<td>Advanced Services Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9

Numerous opportunities exist for students with marketing degrees. Some of those include sales, branding, supply chain, marketing research analysis, retail and purchasing, import/export operations, and logistics management. At the doctoral level, most graduates take on professorial positions.

**Types of Jobs Accepted**

international marketing manager, global research analyst, international procurement position, export sales representative, procurement manager, project director, international logistics, corporate logistics manager, international shipping specialist, customs broker, sales representative, and management development

**Jobs of Experienced Alumni**

Some of our more experienced alumni currently hold the following types of positions: chief executive officer, chief financial officer, business owners, and vice president of sales. Graduates of our doctoral program hold various professorial positions including dean and associate dean.

Learn more about opportunities in this field at the Career Center
World Business, Minor

Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Business may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student’s dean is required. Each student can earn only one business minor.

Except for the general business minor, which requires a minimum GPA of 2.0, non-business majors admitted to a business minor must have GPAs of 2.5 or higher for all college level and University of Alabama coursework attempted. A student whose GPA falls below these standards may petition the associate dean for undergraduate student services of the Culverhouse College of Business for admission to the minor if the student’s GPA for the last 30 hours attempted is at least 2.5. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student’s GPA subsequently falls below a 2.5, provided all other enrollment requirements are met. All 300- or 400-level courses in the minor must be taken in residence at UA, unless permission is given by a Business department chair to transfer a course from another four-year institution. A GPA of 2.0 or higher within the minor must be achieved in order to complete it.

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Students are responsible for ensuring that they have met all University, College, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, College, and University requirements.

<table>
<thead>
<tr>
<th>Minor Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 210 Intro To Accounting (EC 110 is a prerequisite for AC 210)</td>
<td>4</td>
</tr>
<tr>
<td>IBA 350 Introduction to World Business</td>
<td>3</td>
</tr>
<tr>
<td>IBA 455 Global Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300 Marketing</td>
<td>3</td>
</tr>
<tr>
<td>PSC 434 Internatl Polit Econom</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>IBA 351 Multinat'l Bus. Communication</td>
<td></td>
</tr>
<tr>
<td>IBA 460 Export/Import Management</td>
<td></td>
</tr>
<tr>
<td>EC 430 International Trade</td>
<td></td>
</tr>
<tr>
<td>EC 431 International Finance</td>
<td></td>
</tr>
</tbody>
</table>

School of Social Work

The School of Social Work offers the degrees of bachelor of social work, master of social work and doctor of philosophy.

- **Major**
  - Social Work (BSW) (p. 1217)
- **Minor**
  - Social Welfare (p. 1217)

General Degree Requirements

Students are required to complete a minimum of 120 hours for the degree. Of those, 48 hours must be in social work courses. Required courses are listed in the preceding Program Requirements section under Overview.

Hours of Study for the Minor in Social Welfare

Students in other divisions of the University may earn minors in social welfare by completing 18 hours of social work courses. Course requirements are listed under the Minor in Social Welfare section.

Independent Study

Independent study is usually arranged in order for the student to pursue a special area of interest in social work or social welfare that is not covered in courses regularly offered. To arrange an independent study course, the student should obtain permission from his or her adviser, work out the goals and objectives of the course with the supervising instructor and secure a recommendation from the program chair and approval from the assistant dean for educational programs and student services. Independent study must be approved no later than the last day of class of the semester preceding the semester of the course. Such courses may be dropped according to University policy.

Course Substitution

Occasionally, a student may wish to substitute another course for a required course. All such requests should first be presented to the student’s adviser, who will weigh the merits of course substitution and determine whether the content of the proposed course is appropriate as a substitute. Decisions on social work course substitutions are made by the program chairperson.

Transient Enrollment

A student who wishes to take courses at another college or university during a summer or regular semester should, after talking with his or her adviser, check with the School of Social Work registrar’s office to determine whether the courses will transfer to the School of Social Work. Prior approval must be received in order for transfer credit to be accepted toward degree requirements.

Second Bachelor’s Degree

A student with a bachelor’s degree in a major other than social work may take courses leading to a bachelor’s degree in social work as a second degree. To qualify for enrollment in social work courses as a major, the student is expected to meet all requirements for admission (i.e., 2.25 cumulative GPA and 2.5 GPA or higher in social work courses and a completed application for admission). The student is also expected to complete, in residence and with the required overall and social work GPAs, the specified social work courses for the BSW degree. The student is also expected to take other courses common to social work majors, such as 4 hours of biological sciences. Students interested in a second
degree should also refer to the University’s requirements listed under the Second Bachelor’s Degree section of this catalog under Academic Records and Policies/Multiple Degrees and Multiple Majors.

Students entering the School of Social Work as freshmen are required to meet the admissions standards of the University set forth in the Admissions (p. 897) section of this catalog. The University accepts transferred credit from accredited associate of arts programs (see Undergraduate Transfer Admission (p. 898) section of this catalog).

The School of Social Work also accepts those hours but requires that all students meet the course requirements for the bachelor of social work degree. An evaluation of each transferred course is made by the University’s Academic Records office or the registrar of the School of Social Work. Any transfer credit of a social work course must be approved by the program chair. No academic credit, course waivers, or credit for field practicum shall be granted for life experience or for previous work experience.

Transfer credit from four-year institutions is accepted as long as the specified requirements for the BSW degree are met. Credit for 400-level social work courses can be granted only for such courses taken in a CSWE-accredited social work program. Social work courses below the 400 level taken in programs without CSWE accreditation are evaluated for transfer credit on a course-by-course basis. Because of the number of social work courses required of junior- and senior-level students, it is difficult for a transfer student to enter the School of Social Work after the first semester of the junior year and complete the program within an additional two-year period, unless the general education requirements have been completed during the first two years of study. Most transfer students attend at least one summer session.

Any University of Alabama student who has completed 45 semester hours or more of academic work and who wishes to transfer from any other UA division into the School of Social Work must have a grade point average of at least 2.0 for all college work.

**Admission into the Professional Program**

The priority deadline for application to enter the upper division (professional program) in social work is February 15 of each year for admission the following fall semester and September 15 for admission the following spring semester. Application forms are available on our website and from the school’s registrar.

Each applicant for the professional program should have completed:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 108 or BSC 109 Intro Biology Non Maj</td>
<td>4</td>
</tr>
<tr>
<td>PY 101 Intro To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Intro To Sociology</td>
<td>3</td>
</tr>
<tr>
<td>OR their equivalents</td>
<td></td>
</tr>
<tr>
<td>SW 100 or SW 105 Introduction to the Fields of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 200 or SW 205 History of Social Welfare in the United States</td>
<td>3</td>
</tr>
<tr>
<td>SW 351 or SW 355 Oppression &amp; Soc Injustice</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>19</td>
</tr>
</tbody>
</table>

A student who has completed at least two of those courses may apply if he or she is enrolled in the other course at the time of application. An applicant also must have qualified for UA core curriculum–level math courses either by placement score or by having earned a C or higher in MATH 100 Intermediate Algebra. To be considered for admission, the student must have completed at least 45 hours toward the degree with a cumulative grade point average of at least 2.25 and a social work GPA of least 2.5.

Spaces for students in the upper division are limited. Two faculty readers score each application. Depending on the number of applications and spaces available, some applicants who meet minimum admissions requirements may be placed on a waiting list. Students who are conditionally admitted must maintain cumulative grade point averages of at least 2.25 (and 2.5 in social work courses) or the offer of admission will be withdrawn.

After the completion of approximately 54 hours toward the social work degree, with the required cumulative and social work grade point averages, students who have been admitted into the professional program begin taking the professional courses, which are the 400-level social work courses listed in the School of Social Work Program Requirements (p. 1217) section of this catalog.

**Performance and Retention Policies**

To continue in the social work professional program, students must meet the following criteria:

- Students must earn minimum grades of C in all required social work courses, including two social work electives.
- Students must earn minimum grades of C in all other courses required in the major: PY 101 Intro To Psychology; SOC 101 Intro To Sociology; PY 358 Abnormal Psychology; PY 372 Social Psychology or SOC 205 Social Psychology; BER 345 Educational Statistics; CJ 381 Statistics; PY 211 Elem Statistical Methods or ST 260 Statistical Data Analysis.
- Students must earn a minimum grade of C on the designated writing assessment during their first semester in the professional program. Students who have not earned a C on the writing assessment by the end of the semester in which they complete SW 440 Social Work Practice with Individuals and Families will be placed on probation and will be required to enroll in SW 310 Professional Writing Seminar during the following semester. These students must pass SW 310 Professional Writing Seminar in order to continue in the professional Social Work Program.

**Field Education**

SW 490 Field Education, a 9-credit-hour course, is a four-day-per-week learning experience course taken during the fall semester of the senior year. Students are given opportunities, under supervision, to develop social work skills. The School of Social Work collaborates with agencies in a variety of settings for field education placements. To complete field education requirements, students must make arrangements for transportation to and from their field education site. During this semester, students also attend classes at the School of Social Work one day per week.

To be eligible for their field education placement, students must maintain cumulative grade point averages of 2.25 or higher and 2.5 or higher GPAs in social work courses, and they must have passed a statistics class. Students on probation and/or holding grades of I in any social work courses may not be admitted to field education.

The School of Social Work was established in 1965, when an act of the Alabama Legislature created a graduate school of social work, the first graduate social work program in the state. The undergraduate
program began in 1970 and a doctoral program was added in 1975. The undergraduate program is the only one in the state offered within a comprehensive school of social work.

Social work is a challenging and rewarding profession that has as its goal helping people live satisfying lives within their families and their communities. The profession’s focus is on action to help people affect positive changes in their lives.

At the bachelor’s and master’s levels, the School of Social Work prepares social workers to plan, administer, deliver and evaluate social services for citizens of the state, region and nation. The bachelor of social work degree prepares the graduate to begin generalist practice in a variety of settings. The master of social work degree prepares the graduate for advanced, specialized practice. The doctor of philosophy degree prepares graduates to develop and impart knowledge to advance the profession. The faculty engage in research and professional activities designed to enrich educational programs, improve social conditions and meet the special needs of the state, region and nation.

The undergraduate program leads to the bachelor of social work degree. The primary objective of the undergraduate program in social work is the preparation of students for effective practice of professional social work in beginning-level positions. The graduate is prepared as a social work generalist with skills to assist individuals, families, groups, organizations and communities in achieving goals, solving problems and bringing about change where it is needed. Additionally, this program prepares students to enter graduate study in social work or related fields. It also provides interested persons with knowledge of social welfare needs and the means of providing for those needs. These objectives, however, are secondary to the primary objective of preparation for practice.

Five basic requirements of the BSW program prepare the student for practice as a generalist social worker: required liberal arts courses, elective courses, required social work courses, elective social work courses and supervised social work field education.

**SW100 Introduction to the Fields of Social Work Practice**

**Hours 3**

An overview of the many and varied roles in which social workers function in today’s society. Reviews the historical development of the profession, its various fields of practice, the profession’s code of ethics, and covers current national and local issues. Fifteen hours of volunteer work outside of class are required. Required course for social work majors and social welfare minors; open to all University students, but freshmen and sophomores preferred. Offered in the fall and spring semesters.

**Prerequisite(s):** None. This is an introductory course open to all University students. It is a required course for social work majors and social welfare minors.

**SW101 Orientation to Social Work**

**Hours 3**

The purpose of this course, which is required for social work majors, is to orient social work majors to the School of Social Work (SSW), professional writing standards, and other basic professional skills. Students will learn about establishing an educational plan, professional etiquette, career preparation, self-care, steps in applying for admission to the professional program, campus resources, basic skills in professional writing, and basic knowledge and skills relevant to professional social work practice, including licensure, professional etiquette, and self-care.

**Faculty**

**Dean**

Dr. Vikki Vandiver

**Assistant Dean of Scholarly Affairs**

Hamner, Karl

**Instructors**

Herrin, Charlotte B.

Lockhart, Angela

Melton, Pamela

Payne, Nancy

Phelps, Carroll C.

Welker, Kathleen, W.

**Assistant Professor**

Hopson, Laura M.

Noh, Hyunjin

Shah, Avani

Simpson, Gaynell M.

Starks, Karen

Traylor, Amy C.

**Associate Professor**

Cheng, Tyrone Chiwai

Drolen, Carol S.

MacNeil, Gordon A.

Nelson-Gardell, Debra M.

Pryce, Josephine G.

Simon, Cassandra E.

Smith, Brenda D.

**Professors**

Csikai, Ellen L.

Parker, Michael W.

**Professor Emeritus**

Adams, James P., Jr.

Crow, Richard T.

Crunk, Phillip Eugene

Kaufman, Alan B.

Kosberg, Jordan I.

**Assistant Professor Emeritus**

Bell, Roy F.

**Associate Professor Emeritus**

Eure, Gerald K.

Sumrall, Raymond O.

**Associate Professor Emerita**

Raymond, Ginny

Mueller, Thelma V.
Assistant Professor Emerita
McClain, Shirley B.

Shelton, Sharon C.

Professor Emerita
Roff, Lucinda L.

Chairperson
Smith, Brenda
Jackson, Mary Sebrena
Hopson, Laura M.

Associate Dean
Williams, Javonda

Social Welfare, Minor

A student who plans to declare a minor in social welfare should complete the change of major/minor application online under the Student tab in his or her myBama account.

A student who is majoring in another UA college may declare a minor in social welfare, subject to the requirements of his or her college.

Social welfare minors may not take social work practice courses, including SW 440 SW Pract with Indiv & Families, SW 441 SW Practice with Groups, SW 442 SW Practice with Communities, SW 443 Seminar in Generalist Practice and SW 490 Field Education.

Requirements for an undergraduate minor in social welfare are as follows:

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<tr>
<th>Minor Courses</th>
<th>Hours</th>
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<td>SW 100 or Intro Fields SW Practice</td>
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<tr>
<td>SW 105 Honors Intro Field of SW Pract</td>
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<tr>
<td>SW 200 or History Social Welfare US</td>
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<tr>
<td>SW 205 Honors History of Social Welfare in the United States</td>
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<tr>
<td>SW 351 or Oppression &amp; Soc Injustice</td>
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<tr>
<td>SW 355 Hon Oppression &amp; Soc Injustice</td>
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</table>

Select nine hours of social work courses 1 9

Total Hours 18

1 Electives are to be selected from among the courses open to non-social work majors and for which students completing the minor have successfully passed the appropriate prerequisites. One of these courses must be at the 300 or 400 level.

Social Work, BSW

Social work students are usually interested in a wide variety of topics related to social justice, human rights, social policy, mental health, and community organizing. Often underlying those interests is a concern for persons who are vulnerable, oppressed, underserved, and living in poverty. Students interested in social work typically have strong oral and written communication skills, an interest in solving social problems, and an enjoyment of working with people from diverse backgrounds.

The following courses are required for the BSW degree and include University Core Curriculum requirements as well as the state’s general education requirements. Students must complete the foreign language (FL) requirement (see the Core Curriculum/General Education Requirements section of this catalog).
Select two of the following courses in different disciplines. At least one course must carry SB designation.

- ANT 100 Intro To Anthropology
- ANT 102 Intro to Cultural Anthropology
- ANT 103 Discoveries In Archaeology
- ANT 270 Biological Anthropology
- EC 110 Principles of Microeconomics
- EC 111 Principles of Macroeconomics
- GY 105 World Regional Geography
- GY 110 People, Places, & Environment
- PSC 101 Intro American Politics
- PSC 103 Intro Public Policy
- PSC 211 State & Local Govt
- UH 105 Honors Mentoring

Electives
Select 4 hours of free electives

Total Hours: 120

1. Students must have a two-course sequence in either HI or L.
2. At least one course must hold the SB designation, and the two courses selected must not be from the same department.
3. Math courses have prerequisites that must be met.
4. Students must take SW 310 unless they make an A or B on the writing exam in SW 101.
5. A Bachelor of Social Work degree requires a minimum of 120 hours.

According to the U.S. Department of Labor's Bureau of Labor Statistics, social work is one of the fastest growing careers in the United States. Social workers are employed in a variety of career settings, including schools, hospitals, colleges and universities, mental health clinics, senior centers, nursing homes, elected offices, private practices, prisons, military systems, public defender and criminal court systems, corporations, and numerous public and private agencies that serve individuals and families in need.

Learn more about opportunities in this field at the Career Center.

Sample Course Sequence
A student may choose to vary the sequence of courses outside the School of Social Work and take some electives in the freshman and sophomore years. However, EN 101 English Composition and EN 102 English Composition, the freshman composition courses, must be taken in the freshman year. SW 101 Orientation to Social Work is required for new students. A student may be able to take fewer hours than the 15–16 hours per semester by going to summer session.

First Year

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<tr>
<td>SW 100</td>
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Second Year

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<td>3 SW 351</td>
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<td>SW 200</td>
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Third Year

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Total Hours: 120

Foreign Language 4
Mathematics above MATH 100

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