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

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

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 nineteen 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)?

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
The themes of the class.

Interpreting the contemporary and interrogating our responsibility toward race and the world. Instead of resolving these debates, our problem-consciousness to political ontology) to parse the relationship between acts whose scope and framing bear on present problematics. In doing so, we will learn to mobilize our readings as theoretical and historical tools in the development of different conceptual paradigms (from double of categories in contested proximity to race (from class to gender); and 2) the deployment assumption, we will survey debates on 1) the origin and history of race and racism (from the Ancients to the early moderns); 2) the deployment of hate groups and the impact of those groups on social and political debates over hate crimes laws.

This course introduces students to the major themes, questions, primary sources, monographs, and fiction in regards to slave resistance in the United States and Atlantic World. Specifically, course readings and assignments will revolve around agency and empowerment of enslaved individuals, power relations between masters and enslaved individuals and the various forms of resistance (everyday acts, runaways, rebellions, and marronage).

What are the causes and consequences of bias-motivated crimes? What are the larger social and political contexts? In this class, students will examine how bias-motivated violence receives attention in the media, how and why hate crimes legislation came to be seen as a necessary legal tool to curb crimes based on race, gender, gender identity, religion, and sexual orientation. Students will also explore the opposition to such laws and the degree to which communities are able to respond to incidents of bias-motivated violence. Students will also explore the proliferation of hate groups and the impact of those groups on social and political debates over hate crimes laws.

The field of Black Family Studies is an area that has received very little attention in the last decade. This course will use historical literature to address issues that have impacted Black families in America. Throughout this course, we will investigate the various reasons why the majority of Black families are not the traditional units that were prevalent before the turn of the 20th century. A broad perspective will be taken to provide a balanced understanding of gender and the challenges men and women face from patriarchy, racism, mass incarceration, poverty, and economic exploitation. Students will be responsible for reading the assigned text and actively engage in class discussion.

This course offers a critical introduction to the conditions of possibility for modern racial thinking, with particular emphasis on racial slavery and anti-blackness. We will begin with the working assumption that slavery is at the root of the problem of race and racism. In order to excavate this assumption, we will survey debates on 1) the origin and history of race and racism (from the Ancients to the early moderns); 2) the development of categories in contested proximity to race (from class to gender); and 3) the development of different conceptual paradigms (from double consciousness to political ontology) to parse the relationship between race and the world. Instead of resolving these debates, our problem-based approach will emphasize that texts are intellectual and political acts whose scope and framing bear on present problematics. In doing so, we will learn to mobilize our readings as theoretical and historical tools in interpreting the contemporary and interrogating our responsibility toward the themes of the class.

This course examines the historical origins and present framework of Black politics, including the civil rights movement, Black political culture, local and community politics, and current and future issues for Black America such as Black imagery in television/film, Black feminism, sexuality, the War on Drugs, the impact of mass incarceration, and modern social justice and protest movements like #BlackLivesMatter. Students will explore questions regarding the history of race in American political life as well as how race has shaped a broader national identity. And evaluate what concepts like “equal treatment under the law” and “liberty and justice for all” mean with respect to the legacy of Black political participation.

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.

Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

Feminism understands itself to be fundamentally liberatory - that is, concerned with increasing liberty, particularly (but not exclusively) of women. Feminist political theory often treats freedom within a liberal framework that prioritizes individual rights: for example, the right to control one's reproductive health, the right to equal pay, or the right not to experience harassment. According to this framework, to be free is to enjoy one's rights without interference or limitation. The aim of this course is to think about freedom beyond rights. Specifically, we will consider what it means to be a free political actor, whether freedom is the highest political good, whether, and how, freedom is compatible with other values, such as equality and justice, and how different kinds of politics, social norms, and modes of living might affect attempts to increase and experience freedom.

An examination of selected African American topics. May be repeated for a maximum of 18 hours.

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.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

AAST434 Race, Ethnicity and Health Disparities
Hours 3
This course is designed to provide the student with an overview of race and ethnicity as it relates to health as well as major issues facing the overall health status of our society. This class will provide examples for the application of minority health basic competencies in the field of community health and medical sociology. Topics to be covered include: mental health and individual behavior access to health care, socioeconomic status and racial differences, racial/ethnic group specific health issues. The health care system covers the physician-patient relationship and increasing commercialization in the health care system.

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. Students 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. Students 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.

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.

AAST502 Special Topics
Hours 3
An examination of selected African American topics.

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.

AMS150 Introduction to American Pop Culture
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 America and the World
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
AMS207 Intro to Latinx Studies
HU
Hours 3
This course introduces students to the range of issues and analytical approaches that form the foundation of Latinx studies. By tracing the history of the Latinx concept in relation to key elements of life, such as time, space, identity, community, power, language, nation, and rights, students will develop understandings of the particular ways in which Latinx studies takes shape. Focus for the course will be on the largest Latino groups in the U.S.: those of Mexican, Puerto Rican, Cuban and Dominican descent.

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.

AMS213 Honors Introduction to Southern Studies
HU, UH
Hours 3
In this discussion-based honors course, students engage with major texts and methodologies in the interdisciplinary field of Southern Studies. We will study the history, literature, and culture of the U.S. South through autobiographies, fictional works, scholarly analyses, and popular media. We’ll look at major events like the Civil War and Civil Rights Movement and evaluate varying and often conflicting ideas about what makes the South distinctive.

Humanities, University Honors

AMS215 Introduction to Urban Studies
Hours 3
The purpose of this course is to introduce students to the intricacies of city life and to look at how place and space shape the human experience. Throughout the course, we will examine the city as a physical and spatial place as well as a place defined by its people and institutions. We consider the social and behavioral relations that form communities, including the diversity produced by factors such as race, class, and gender. As we proceed through the course, you should come to understand that physical and social structures are related to one another, and often times, are inseparable.

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

AMS231 Contemporary America
HU
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

AMS232 Honors Contemporary America
HU, UH
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, students 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.

Humanities, University Honors

AMS280 American Pop Music
HU
Hours 3
This course will tell the story of mainstream popular music in the United States from the arrival of rock and roll in the 1950s through to the present, including stops along the way for Top 40, soul, arena rock, country, punk, MTV, hip-hop, electronic dance music, American Idol, and the culture of streaming hits on YouTube and Spotify today. In addition to learning about different kinds of sounds, students will read work by artists, fans, and label people to think about how music shaped identity — the soundtrack of new groups emerging in American life.

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.
AMS305 Southern Poor Whites
Hours 3
Shining a light on a marginalized yet momentous figure—the poor white—this class asks: What kinds of cultural work do representations of poor white Southerners do? How do depictions of poor white women's experiences differ from men's? How and why do accounts of poor white life in the South change over time? We will study scholarly analyses, fictional works, autobiographies, and movies in search of answers to these and other questions.
Prerequisite(s): 6 credit hours of Social/Behavioral (SB) or Humanities (HU) courses

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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
W
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. One of the written assignments will be graded and returned before the mid-term.
Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

Writing

AMS323 Into the Wild: Nature and American Popular Imagination
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.
AMS26 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.

AMS330 The Great Depression
Hours 3
This course explores the Great Depression, the single most important economic event of the 20th Century. We will focus on the causes, events, policies, movements, personalities, and human tragedy and triumph of this era through an interdisciplinary historical perspective that will examine aspects of this twentieth century crisis. As an American Studies course, we will use films, TV shows, written narratives, and music to explore the era.

AMS334 Science Fiction: Borders of Identity
W
Hours 3
This course looks at science fiction through literature, film, and television. We'll explore how futuristic settings reflected anxieties of the all-too-real present. These included the impact of new technology, changing notions of race, gender, sexuality, and class, threats to life such as the Cold War, and the general sense of constant, rapid change in modern life. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 6 credit hours of HU or SB courses.

AMS336 Rock, Soul, Hip-Hop and Country
W
Hours 3
After 1965, rock and roll became rock, representing the counterculture; rhythm and blues became soul, representing Black Power; and country music became the emotional voice of the post-Civil Rights white South. This class contrasts these three dominant American popular music genres, with particular emphasis on how race, but also gender, class, and region, came to invest certain sounds with charged social significance. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): Students must have completed at least 6 credit hours of AMS or other SB/HU courses.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): To enroll, a student must have completed six credit hours in AMS courses.

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 Cold War, 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.

AMS345 The American War on Drugs through Film
Hours 3
This course examines the American War on Drugs through film. The course starts with the premise that the content in films, and the events contemporary to the making of the films, should be critically analyzed for their perspectives, biases, reliability, and interpretive choices. In the course, students will examine the ability of film to successfully portray the war on drugs and analyze how present events, cultures and attitudes shape our view of the past. Students will examine how the history of drugs in the U.S and how the war on drugs affects people of different nationalities and of different racial and ethnic groups.

AMS350 Honors Women in the South
UH, W
Hours 3
What insights into American experience do we gain by reading texts in which Southern women engage questions of gender, class, race, labor, and region? In this course, students 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
University Honors, Writing
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.

AMS380 Imagining the Indian: Native Americans on Page and Screen
Hours 3

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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.

AMS406 Directed Study
Hours 1-3

Independent study in American Studies.

AMS407 Landscapes of the South
Hours 3

A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing
AMS412 On The Road

W

Hours 3

This course examines the American love affair with the open road. It considers the dramatic influence of car culture on the national imagination and the many ways it permeates and defines the United States. Drawing from an array of literary, historical, and cultural sources, the course encourages students to examine how writers, filmmakers, and artists in all mediums demonstrate the pervasiveness of the road in our historical, literary, and cultural imagination. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor

Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor

Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 9 SH Humanities/ and or Social Sciences courses or permission of instructor.
Writing

AMS450 (En)gendering Black History: Black Feminist Thought and Action in American History
W
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.

AMS465 Fictions of American Identity
W
Hours 3
This course explores nineteenth- and twentieth-century American literature and culture. Novels and short stories by Zora Neale Hurston, Henry James, Gish Jen, James Weldon Johnson, Toni Morrison, Vladimir Nabokov, and other writers are studied in the context of debates over slavery, national identity, women's roles, immigration and assimilation, social mobility, sexual mores, consumer culture, and race relations. Paper assignments emphasize close reading techniques and process-oriented writing. Assigned literary critical readings include papers written by students in this class and subsequently published in The Explicator, a journal of text-based critical essays. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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? Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): Six hours of Humanities and/or Social Sciences courses or permission of instructor.

Writing

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

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.

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 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.

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.

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.

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.
AMSS23 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.

AMSS29 American between the Wars
Hours 3
Explores first two decades of America's "Modern Times" (1919-1941) when Americans redefined themselves and their society.

AMSS30 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.

AMSS31 Studies In Pop Culture
Hours 3
Research and discussion of selected topics in American popular culture: literature, music, network broadcasting, advertising, film, and drama.

AMSS32 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.

AMSS36 Studies Social Experience
Hours 3
Research and discussion of selected topics in the American social experience.

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.

AMSS45 The "Good War"
Hours 3
A topical examination of the American Experience at home and abroad, 1941-1945.

AMSS55 Fictions of American Identity
Hours 3
This course explores nineteenth- and twentieth-century American literature and culture. Novels and short stories by Zora Neale Hurston, Henry James, Gish Jen, James Weldon Johnson, Toni Morrison, Vladimir Nabokov, and other writers are studied in the context of debates over slavery, national identity, women's roles, immigration and assimilation, social mobility, sexual mores, consumer culture, and race relations. Paper assignments emphasize close reading techniques and process-oriented writing. Assigned literary critical readings include papers written by students in this class and subsequently published in The Explicator, a journal of text-based critical essays. Writing proficiency within this discipline is required for a passing grade in this course.

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.

AMSS589 Approaches Teaching Ams
Hours 3
A study of basic approaches to interdisciplinary teaching in American culture at the college level, along with supervised teaching experience.
AMS592 American Topic Seminar
Hours 3
Study of special topics within the American cultural experience. Recent examples include American literary realism, women in America, the Civil Rights movement, the picture press, music and ethnicity, the politics of culture, regionalism in American culture, the changing American family, homelessness in America, American autobiography, American monuments, contemporary American folklore, Southern popular culture, Southern iconoclasts, politics and culture, historical memory, America by design, the other in America, women in America, race in America, 19th-century popular culture, and slavery and the Civil War in historic memory.

AMS595 Ams Colloquium: Res & Methods
Hours 3
Discussion of methodological and theoretical issues in American Studies.

AMS596 Ams Colloquium: Scholarly Writ
Hours 3
Presentation of research and methods.

ANT100 Anthropology: The Study of Humanity
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.

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.

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.

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.

ANT107 Intro to Archaeology
SB
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.

ANT108 Anthropology of Sex
SB
Hours 3
This course is an introduction to human sexuality from a biocultural perspective with emphases 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 transexuality and sexually transmitted diseases.

ANT110 Language and Culture
SB
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.

ANT109 Peoples of Asia
SB
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.
ANT225 Introduction to Global Health
SB
Hours 3
This course covers the biological, cultural, social aspects of major international health issues, especially in the areas of infectious disease, nutrition, and environmental health. The course will also explore the integration of anthropology in global health work. Other topics include population groups with special risks, policies and programs designed to reduce health inequalities, and basic methods used to study global health.

Social and Behavioral Sciences

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.

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.

ANT302 Language and Race
Hours 3
This course examines language as practice in relation to the concepts and consequences of race, racism and racial identity in the contemporary U.S. Based in linguistic anthropology but also drawing from medical anthropology, the course emphasizes the connections between language, embodied experience, and health in the context of culture. The course examines links between everyday language and cultural processes of racialization as they occur in educational contexts, healthcare settings, in the media, in religious practice, in music, on social media, and in public policy discourse. After reviewing several core concepts in linguistic anthropology, the course focuses on understanding how power is enacted in everyday language; how speakers of various language varieties experience everyday interaction in various contexts; how “code-switching” works in complex social encounters; how “style” and “stance” are drawn upon in racialized identity construction (for all speakers); and how language, race, and gender work together in interaction.

ANT303 Maya Language and Culture
W
Hours 3
This course covers the basics of Hieroglyphic Mayan and Classic Maya culture using the outstanding material legacy of the ancient civilization. It explores the indigenous Maya myths, histories, and stories of life at the ancient courts of lords and nobles. The course begins with an overview of Classic Maya writing and its historical and cultural contexts. After the introductory section on the fundamentals of Maya glyphs, each week combines a discussion of the grammar of the Hieroglyphic Mayan and thematic 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 are accompanied by practical translation exercises and three essay assignments. The course does not require any prior knowledge of Mayan languages or hieroglyphs. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

ANT305 Tattooing and Human Nature
Hours 3
This course provides an introduction to body modification through the lens of tattooing. Today, one in four Americans has at least one tattoo, and peoples of the world have been tattooing for over 5500 years, based on evidence of tattooed mummies found throughout the world. Yet tattooing can be a health risk, even in an era of improved hygiene and sanitation. This course explores body use from the 4-field anthropological perspective—biological, cultural, linguistic, and archaeological—with a special focus on tattooing.
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

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ANT 107 or permission of the instructor.
Writing

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

ANT326 Service Ethnography
Hours 3
This class integrates community service and anthropology, with the goal of co-creating solutions to stakeholder-identified challenges. Students will be paired with a community organization, such as the West Alabama Food Bank or UA’s Parent Teacher Leadership Academy, and will commit to a minimum of three (3) volunteer hours per week, in addition to our weekly course meeting. Through participant observation and informal interviews, students will work with the organization and the community it serves to determine the needs necessary to address the stakeholder challenge. This will require that that students meet with their group and relevant stakeholders outside of class time.

ANT331 Environmental Archaeology
Hours 3
Humans have transformed and interacted with their environments for thousands of years. Using scientific techniques from earth sciences, biology, and other interdisciplinary sciences, archaeologists can gain insights into past human life. This course explores the varied applications of environmental reconstruction in the investigation of archaeological sites. Students will be introduced to a variety of analytical techniques, including methods for dating and paleoenvironment and climate reconstruction. Students will also learn how to interpret and integrate these data to better understand past human societies and their environments.

ANT335 Field Archaeology
Hours 6
In this course students will participate in an archaeological survey and testing at Moundville and surrounding sites, learning how archaeological research is structured and enacted. Working as a team, students will learn archaeological excavation and survey techniques, including how to identify, record, map, and document archaeological artifacts and features. Students will also become familiar with shallow geophysical survey techniques, including electrical resistivity and magnetic gradiometry, and advanced mapping and surveying methodologies.

ANT336 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 Health Inequities**  
*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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): Either ANT 100 or ANT 102 & 3 additional hours, or consent of instructor.

**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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 102

**ANT406 Biocultural Bodies**  
Hours 3  
This course will explore the body as the object and subject of culture. It will examine how viewing the body as a biocultural canvas and looking at culture as “lived through” the materiality of the body influences our understandings of health and health care. Students will be challenged to examine health as a concept that is quantifiable and generalizable as well experiential and person-centered. They will be challenged to view the discipline of medicine as a framework for employing verifiable and shared (or questionable and contested) knowledge of biological systems whose foundational assumptions and core meanings are grounded in particular social and cultural worlds.  
Prerequisite(s): ANT 102

**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, and 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 102

**ANT412 Anthropology of Europe**  
*W*  
Hours 3  
The course examines ethnicity, nationalism, democratization, unification, and fragmentation with an emphasis on specific countries or regions within Europe. Classic anthropological topics, such as kinship, political organization, ritual, and religion are employed in the study of European nations, ethnicities, and minority communities. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 102

**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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): Either ANT 100 or ANT 102 & 3 additional hours, or consent of instructor.
ANT414 Peoples Of Africa
Hours 3
A review of selected aspects of the customs, social systems, and cultures of African societies.

ANT415 Everyday Life in Contemporary China
W
Hours 3
This course offers students the opportunity to learn about everyday life in contemporary China from an anthropological perspective. Beginning with a brief overview of Chinese history, the bulk of the course is dedicated to understanding how life in contemporary China is shaped by various historical, cultural, social, economic, and political realities. Specific topics include family, religion, healthcare and wellbeing, art (including music and cinema), gender, personal relationships, and issues related to changing urban landscapes. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): ANT 100 or ANT 102, and 6 additional hours of ANT courses at 200 through 400 level.

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): 12 hrs of Anthropology or permission from instructor

Writing

ANT422 Archaeological Ethics
W
Hours 3
This class will explore the legal and ethical dimensions of modern archaeology through a consideration of the archaeology as a profession, professional codes on archaeological ethics, the relationship between archaeology and others (the public, ethnic groups, collectors, etc.), international and national approaches to archaeological heritage management, the antiquities trade, maritime law, underwater archaeology, and treasure hunting, cultural resource management in the United States, and archaeological education. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): ANT 107

Writing

ANT423 Legal Anthropology
Hours 3
What is law? Do all societies have it? Is there really something distinct about "thinking like a lawyer"? This seminar primarily draws on anthropological studies of legal systems and practices to show that the answers to these questions are surprisingly complex. We will study law both cross-culturally and, within the United States, cross-contextually, in order to explore what really distinguishes legal rules from cultural norms and to ask whether basic legal concepts exist across cultures.

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

ANT425 Geographic Information Systems for Archaeologists
Hours 3
This course covers the basic background and skills necessary to manage and analyze spatial datasets using GIS (Geographic Information Systems). We will emphasize the GIS concepts and techniques that are most useful to archaeologists, and we will be working with real archaeological data for all labs and projects. Topics include data acquisition, spatial queries, working with rasters, catchments, cost# surface analysis and visualization analysis. The course includes a weekly guided lab on ESRI ArcGIS software.

Prerequisite(s): ANT 107 and 6 hrs. of additional ANT courses
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  
W  
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 106 or ANT 107

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

ANT434 Archaeology of Food  
Hours 3  
A broad survey of the literature on modern and ancient foodways, addressing major themes including the domestication of plants and animals; food and social complexity; food, power, politics, and status; the daily meal; feasting and drinking; plating and presentation; food preferences/taste and disgust; and the intimate relationship between food and identity. Students will also engage with the wide range of methods and techniques in the archaeologist's toolkit that aid in the undertaking of gastronomic research, including the analysis of plant and animal remains, residues recovered from cooking and serving ware, and the chemical composition of human bones.  
Prerequisite(s): ANT 107

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 102

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 107

ANT445 Historical Archaeology  
W  
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. Additionally, during this course we will consider specific material approaches utilized in historical archaeological analyses. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ANT 107

ANT450 Probs In Anthropology  
Hours 3  
Devoted to issues not covered in other courses. Each section of the course represents a separate class with a specific professor and list of topics. The course may be repeated for a maximum of 12 hours.  
Prerequisite(s): 6 hours of ANT courses

ANT451 Undergraduate Research  
Hours 1-6  
Introduction to independent anthropological research with a focus on constructing testable hypotheses, selecting variables, measuring attributes, recording data, making interpretations and writing and presenting results.  
Prerequisite(s): 6 hours of ANT courses
ANT458 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.

ANT460 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ANT 107
Writing

ANT462 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

ANT464 Paleoethnobotany
Hours 3
This laboratory class is designed to introduce archaeological laboratory methods, reasoning and interpretation through paleoethnobotanical identification and data analysis. We will be studying the major classes of plant remains likely to be encountered in archaeological sites, how to identify them, and how to organize the data to produce interpretable results. The course will emphasize the use of plant remains to answer archaeological questions, rather than study the plant remains for their own sake.
Prerequisite(s): ANT 107 and 6 hrs. of additional ANT classes

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

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 The Plastic Human: Our Biology, Culture, & Evolution
W
Hours 3
An introduction to the biocultural and evolutionary bases of human adaptability. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ANT 270
Writing
ANT476 Nutritional Anthropology

Hours 3
An introduction to anthropological inquiries and methods in nutrition—including food habits, food systems, dietary variability, and food movements—using an engaged anthropological framework. This experiential learning class teaches students how to conduct nutritional anthropological fieldwork within local community settings. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ANT 102 and ANT 270

ANT478 Anthropology of Human Development

Writing

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

ANT481 Anthropology is Elemental: 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 102, ANT 107, ANT 210, and ANT 270

ANT501 Theory and Method in Linguistic Anthropology

Hours 3
Advanced introduction to contemporary linguistic anthropology, explores various theoretical and methodological approaches to the study of language as a semiotic resource for social actors and communities.

ANT502 Health Inequities

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.

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.

ANT506 Biocultural Bodies

Hours 3
This course will explore the body as the object and subject of culture. It will examine how viewing the body as biocultural canvas and looking at culture as “lived through” the materiality of the body influences our understandings of health and health care. Students will be challenged to examine health as a concept that is quantifiable and generalizable as well experiential and person-centered. They will be challenged to view the discipline of medicine as a framework for employing verifiable and shared (or questionable and contested) knowledge of biological systems whose foundational assumptions and core meanings are grounded in particular social and cultural worlds.

ANT509 Ancient Maya Civilizatns

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

ANT510 Ethnography of Communication

Hours 3
This course will explore the body as the object and subject of culture. It will examine how viewing the body as biocultural canvas and looking at culture as “lived through” the materiality of the body influences our understandings of health and health care. Students will be challenged to examine health as a concept that is quantifiable and generalizable as well experiential and person-centered. They will be challenged to view the discipline of medicine as a framework for employing verifiable and shared (or questionable and contested) knowledge of biological systems whose foundational assumptions and core meanings are grounded in particular social and cultural worlds.

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 Anthropology of Europe

Hours 3
The course examines ethnicity, nationalism, democratization, unification, and fragmentation with an emphasis on specific countries or regions within Europe. Classic anthropological topics, such as kinship, political organization, ritual, and religion are explored in the study of European nations, ethnicities, and minority communities.
order to explore what really distinguishes legal rules from cultural norms both cross-culturally and, within the United States, cross-contextually, in answers to these questions are surprisingly complex. We will study law anthropological studies of legal systems and practices to show that the about “thinking like a lawyer”? This seminar primarily draws on

ANT513 Peoples Of Latin Amer Hours 3
A survey of thematic areas of research on Latin American cultures. Thematic areas include, but are not limited to, health, environment, political systems, forms of production, and religion.

ANT514 Peoples Of Africa Hours 3
A survey of the standards, customs, and beliefs that typify African cultures. 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.

ANT522 Archaeological Ethics Hours 3
Students all encounter dilemmas in their everyday lives. Oftentimes, these situations do not present a clear solution, forcing us to ponder the morals and codes we live by and the manner in which we attempt to present logical responses to ethical conundrums. The field of archaeology may, at first, seem like an odd candidate for discussion of ethics given that it studies past peoples. Students will learn that archaeology is indeed heavily situated in the present and has many ties to such subjects as identity, notions of nationhood and nation-building, collective memory, and historical revision. This class will explore the legal and ethical dimensions of modern archaeology through a consideration of the archaeology as a profession, professional codes on archaeological ethics, the relationship between archaeology and others (the public, ethnic groups, collectors, etc.), international and national approaches to archaeological heritage management, the antiquities trade, maritime law, underwater archaeology, and treasure hunting, cultural resource management in the United States, and archaeological education.

ANT523 Legal Anthropology Hours 3
What is law? Do all societies have it? Is there really something distinct about “thinking like a lawyer”? This seminar primarily draws on anthropological studies of legal systems and practices to show that the answers to these questions are surprisingly complex. We will study law both cross-culturally and, within the United States, cross-contextually, in order to explore what really distinguishes legal rules from cultural norms and to ask whether basic legal concepts exist across cultures.

ANT524 Legal Anthropology Hours 3
This course covers the basic background and skills necessary to manage and analyze spatial datasets using GIS (Geographic Information Systems). We will emphasize the GIS concepts and techniques that are most useful to archaeologists, and we will be working with real archaeological data for all labs and projects. Topics include data acquisition, spatial queries, working with rasters, catchments, cost# surface analysis and visualization analysis. The course includes a weekly guided lab on ESRI ArcGIS software.

ANT525 Geographical Information Systems for Archaeologists Hours 3

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.

ANT534 Archaeology of Food Hours 3
This course will undertake a broad survey of the literature on modern and ancient foodways, addressing major themes including the domestication of plants and animals; food and social complexity; food, power, politics, and status; the daily meal; feasting and drinking; plating and presentation; food preferences/taste and disgust; and the intimate relationship between food and identity. Furthermore, we discuss the wide range of methods and techniques in the archaeologist’s toolkit that aid in the undertaking of gastronomic research, including the analysis of plant and animal remains, residues recovered from cooking and serving ware, and the chemical composition of human bones.

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

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.

ANT564 Paleoethnobotany
Hours 3
This laboratory class is designed to introduce archaeological laboratory methods, reasoning and interpretation through paleoethnobotanical identification and data analysis. We will be studying the major classes of plant remains likely to be encountered in archaeological sites, how to identify them, and how to organize the data to produce interpretable results. The course will emphasize the use of plant remains to answer archaeological questions, rather than study the plant remains for their own sake.

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 Humans and Evolution
Hours 3
A survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution in the human lineage.

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 The Plastic Human: Our Biology, Culture, & Evolution
Hours 3
An introduction to the biocultural and evolutionary bases of human adaptability.

ANT576 Nutritional Anthropology
Hours 3
An introduction to anthropological inquiries and methods in nutrition including food habits, food systems, dietary variability, and food movements using an engaged anthropological framework. This experiential learning class teaches students how to conduct nutritional anthropological fieldwork within local community settings.

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 interactions 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 Elemental: 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 Anthrop
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.

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.

ANT670 Principles of Biological 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.

ARB101 Elementary Arabic
FL
Hours 4
This is an introductory course to the Arabic language and is intended for those with no prior knowledge of the language.
ARB102 Elementary Arabic
FL
Hours 4
This course is a continuation of ARB 101. Students in this semester will be introduced to new vocabulary that will help them extend their sentence structuring in order to engage in more conversations and be able to negotiate meaning in various contexts. In addition, students will be engaged into the four communication skills (reading, speaking, listening and writing) and will be immersed in Arabic language and culture through various audio and visual activities.
Prerequisite(s): ARB 101

ARB201 Intermediate Arabic
Foreign Language
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

ARB302 Advanced Arabic
Hours 3
This course is a continuation of their ARB 301 advanced level in Arabic. Students in this course will continue with their three textbooks (Arabic Literature, Arabic Media & Arabic Grammar) that would expose them to new contexts, sentence structure, and vocabulary. The students will be trained to negotiate meaning in more complex contexts. In addition, students will engage with several language skills (reading, writing, listening, speaking, and translating) through political and cultural contexts.
Prerequisite(s): ARB 301

ARB350 Culture and Society in Africa and the Middle East: Present and Past
Hours 3
Students will learn about the social, cultural, geographical, religious, linguistic, historical, and other aspects of the Arab and middle eastern culture. Students in this course will gain knowledge about certain topics, such as social values and identities, minority groups, religious influence, technology in the Arab world, daily life practices and traditions. Students will watch movies and videos, and read chapters related to the topics discussed. In addition, students will learn about gender relations, multicultural issues, and male-female dynamics. Course taught in English.

ARB351 Introduction to Modern Arabic Literature in English Translation
Hours 3
This course introduces students to various texts of modern Arabic prose and poetry and their development through time. We will discuss literary traditions, genres, and styles in Arabic modern literature from the Middle East and North Africa. We will cover: Poetry, short story, and novel. We will also explore the political, economic, and social issues Arab writers confront, such as, the effect of history, literary tradition, and religion on modern text writing. Other topics will also be discussed: Literature and resistance, Arab women writers and the Arab Spring context in today’s Arab literature. This course is taught in English.

ARB355 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.
ARB363 Women in the Arab World  
HU, L, W  
Hours 3  
This course allows students an in-depth look at the diverse women who represent a number of cultures in the Arab world and to study such women through the eyes of leading Arab women theorists. Students will explore the Arab woman’s place in her respective society, in political and economic systems, in education, and in the family and analyze the Arab woman’s contributions to art and literature as well as to the sciences. The course will provide an overview of the Arab woman throughout history. A passing grade in a W designated course is contingent upon students writing coherent, logical, carefully edited prose in a minimum of two papers, one of which must be completed, graded, and returned by mid-semester. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Rubrics are available for each assignment.  
Prerequisite(s): There are no prerequisites for this course and it is open to students of all levels; course conducted in English.  
Humanities, Literature, Writing  
ARB364 Diversity and Gender Roles and Relations in Jordon  
Hours 3  
This course with a study abroad component will explore Jordan through both on-campus and field work experiences. Students will learn how Jordan’s historic past has contributed to building a nation with a diversity of cultures that plays an important role in politics and diplomacy today. The very fabric of Jordanian society will be at the center of this course which means that a considerable amount of our focus will also be on gender roles and relations and their impact not only on Jordanian society but also on issues involving human rights and equality in the Middle East.  
ARB254 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  
ARB291 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.  
ARB350 Roman Art  
Hours 3  
This course surveys the architecture, painting, and sculpture of Ancient Italy and the lands of the Roman Empire from the earliest record of the Etruscans to the death of Constantine the Great in 337 CE. Lectures, readings, and classroom discussion focus on the socio-political, technological, and religious contexts of Etruscan and Roman material culture.  
Prerequisite(s): ARH 252  
ARB351 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  
ARB352 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  
ARB354 Art of South and Southeast Asia  
Hours 3  
This course examines the vibrant and diverse art and visual culture of South and Southeast Asia through the art, architecture, and material culture associated with the current geopolitical states of India, Pakistan, Sri Lanka, Thailand, Vietnam, Cambodia, Laos, Malaysia, Singapore, and the Philippines.  
Prerequisite(s): 3 Hours of 200-level Art History courses
ARH355 The Art of Imperial China
W
Hours 3
This course will examine the varied traditions and genres of art and architecture produced in China during its important imperial era from the Tang to Qing dynasties (7th century to late 19th century). Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 6 hours of 200 or 300 level Art History courses
Writing

ARH356 Art of Japan
Hours 3
This course will examine the varied traditions and genres of Japanese art from the Asuka period to the Meiji period (6th to early 20th century).
Prerequisite(s): 3 hours of 200/300 level Art History courses or by permission of the instructor.

ARH357 Prints and Print Culture of East Asia
W
Hours 3
This course will examine the rich traditions and varied genres of prints and print production in East Asia (China, Korea, and Japan) from around the ninth century to the present time. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 6 hours of 200-level Art History courses
Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.
Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): 6 hours of 200 level Art History courses or permission of the instructor.

**ARH373 Baroque Art North Europe**  
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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
W

Hours 3
This course examines many different examples of painting, architecture, photography and sculpture that served to define modernism in European and American art. We will follow the development of those aesthetics associated with modernity from the late nineteenth to the early twentieth century (c. 1939). This course is meant to familiarize students with major movements, concepts, and styles, and also to help them develop an understanding of how these movements relate to one another within a larger cultural and historical context. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Students will produce two, individual written assignments (one submitted and returned before the mid-term and one after) that demonstrate coherent, logical, and carefully edited prose. In these assignments, students must demonstrate higher-level critical thinking skills, such as analysis and synthesis.
Prerequisite(s): ARH 253

Writing

ARH387 Southern Architecture
Hours 3
Survey of the history of building in the American South with an emphasis on the antebellum South.
Prerequisite(s): ARH 252

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 inerably 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ARH 253

Writing

ARH389 Harlem Renaissance Art
W

Hours 3
Throughout the 20th century, African Americans employed a variety of strategies toward the attainment of social, political, and economic equality. At different historical moments, specific agenda, tactics, and participants have come to the forefront, yet the overall objectives remain the same. During the 1920s and 1930s, many African Americans put forth a fusion of cultural and political activism as the vanguard of the movement. While exploring the rich art of the era, this course looks beyond traditional artistic models and delves into the work of literary and performing artists to present students with a deeper and more complete understanding of the complex and dynamic social, cultural, and political phenomenon known as the New Negro or Harlem Renaissance. We will explore the intersection between culture and politics during a specific moment in African American history and examine its place within the larger quest for equality. Readings will include works by Langston Hughes, Zora Neale Hurston, Augusta Savage, Alain Locke, Carl Van Vechton, Fannie Hurst, and Aaron Douglass, among others. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 6 hours of 200-level art history courses or permission of the instructor.

Writing

ARH400 Photographic Discourse
W

Hours 3
Study of the history of photography, with a particular emphasis on photographic culture and reproduction. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 examines a special topic of the art, architecture, and material culture of East Asia, South Asia, and Southeast Asia. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 9 hours of 200 and/or 300 level Art History courses
Writing

ARH461 Topics in Medieval Art
W
Hours 3
Selected topics in the art and architecture of the Middle Ages. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 9 hours of 200 or 300 level Art History courses or permission of the instructor
Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): One of the following courses: ARH 374 or 375 or 376 or 377 or 378 or 379 or 380 or 388 and 6 additional hours of 200 or 300-level art history courses or permission of the instructor.
Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 Agasisz, James VanDerZee, Gordan 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): One of the following courses: ARH 374 or 375 or 376 or 377 or 378 or 379 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.

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.

ARH552 Advanced Research Seminar

Hours 3

This advanced seminar focuses on the development and application of discipline-specific research skills. Students will broaden their knowledge of art historical methodologies and themes generally, as well as construct a research program specific to their area of study (Medieval, Early Modern, Modern/Contemporary, etc.). Each class session will address a different theme or topic that students will discuss in relation/apply to individual topics or questions. Generally, these sessions will focus on historiographic issues, ideas, and trends, as well as professional expectations with regard to scholarship and academic practice. As part of this course, students are expected to work closely not only with the instructor and their peers in the class, but also with their major (faculty) advisor. This seminar is intended to be taken after students complete ARH 550 (Literature of Art) since it demands the further study and application of the methods and theoretical approaches learned in that course.

ARH555 Asian Seminar

Hours 3

This seminar course considers a broad range of issues, objects, and themes relevant to the study of Asian art.

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 Topics 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

This seminar course considers a broad range of issues, objects, and themes relevant to the study of Baroque or Rococo art.

ARH575 Nineteenth-Century Seminar

Hours 3

This seminar course considers a broad range of issues, objects, and themes relevant to the study of nineteenth-century art.

ARH577 American Art Seminar

Hours 3

This seminar course considers a broad range of issues, objects, and themes relevant to the study of American art in a historical context.

ARH580 Twentieth-Century Seminar

Hours 3

This seminar course considers a broad range of issues, objects, and themes relevant to the study of modern or contemporary art.
ARH588 Topics in African American Art Graduate Seminar
Hours 3
This course considers a broad range of issues, objects, and themes relevant to the study of African American art. Class sessions will be organized around readings selected to introduce existing scholarship and methods while stimulating new questions for future research. Topics may include African American Photography, American Spectacles and Race, African American Film, African American Portraiture, and Race and American Mythologies.

ARH598 Independent Study
Hours 3
Independent study allows students to pursue academic interests outside the formal classroom setting under the supervision of a faculty member of the department. The activities may include reading, research, or a special project. Independent study is not a substitute for courses regularly available in the department curriculum and is only available to students who are ready to conduct in-depth and largely self-directed research on a specific topic. Enrollment is subject to approval by the Graduate Program Director and a supervising faculty member. A proposal of the topic, and program of work must be submitted to the instructor for approval.

Prerequisite(s): Graduate student status and permission of the instructor

ARH599 Thesis Research
Hours 1-12
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in art history. The course is conducted under the guidance of the thesis advisor. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing a unique research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

ART110 Drawing I
Hours 3
Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

ART130 2D Design
Hours 3
Introductory course that explores two-dimensional concepts in a variety of processes and media.

ART131 3D Design
Hours 3
Introductory course that explores three-dimensional concepts in a variety of processes and media.

ART208 Special Projects
Hours 3
Topics not taught in the regular curriculum. May be repeated for a maximum of 9 hours.

ART210 Drawing II
Hours 3
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
Hours 3
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
Hours 3
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
Hours 3
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 Introduction to Digital Photography
Hours 3
Study of digital photography as a creative medium. Introduction to technical, conceptual, and aesthetic concerns, as well as individual approaches to media, methods, and activities.

ART220 Introduction to Printmaking
Hours 3
An introduction to creative practice using the visual language and technical processes of printmaking. Students will explore their ideas through a variety of traditional and experimental methods.

Prerequisite(s): ART 110 or ART 130

ART222 Sculpture
Hours 3
This course is designed to provide the student with the opportunity to conduct an in-depth investigation of his/her sculptural ideas and abilities based on a variety of material assignments. Projects will make use of specific materials and techniques which combined with individual concept generation by the student will develop ability in the field of sculpture. Students will choose a semester focus of either welding & casting, woodworking, or digital fabrication.

Prerequisite(s): ART 131

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 222 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

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 316

ART318 Intermediate Digital Photography
Hours 3
Study of intermediate digital photographic art practices. Emphasis on technical, conceptual and aesthetic concerns, as well as individual approaches to media, methods, and activities. 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. Aesthetically, these skills will be put into practice 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

ART319 Darkroom Photography
Hours 3
Study of black-and-white, darkroom-based photography as a creative medium. Emphasis on technical, conceptual, and aesthetic concerns, as well as individual approaches to media, methods, and activities.
Prerequisite(s): ART 110 or ART 130

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 ART 224 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 214 or ART 224

ART328 Digital Photography
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 319

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.

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.
ART 408 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.

ART 410 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) with concurrency: ART 444

ART 412 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

ART 414 Graphic Design Portfolio  
W  
Hours 3-6  
An advanced level course that prepares students for pursuing a career in graphic design. Students organize and refine past projects into a printed and digital portfolio. Students apply written communication skills to draft resumes, cover letters and invoices. All of the professional materials are unified through a systematic self-identity system. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): ART 334 and ART 335  
Writing

ART 415 Graphic Design Internship  
Hours 3  
This course provides students with a valuable opportunity to gain firsthand experience working with creative professionals in the industry. Internships must be approved beforehand with all required documents completed and submitted to the internship faculty supervisor. Students must work no less than 135 hours during the semester to earn 3 credit hours. The Department of Art and Art History offers support in identifying potential positions, but it remains the obligation of the student to obtain the position.  
Prerequisite(s): ART 334 & ART 335

ART 416 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

ART 418 Advanced Photography  
Hours 3  
Study of alternative, experimental, and extended approaches to photography. Emphasis on technical, conceptual and aesthetic concerns, as well as individual approaches to advanced photographic practice resulting in a cohesive body of work suitable for exhibition.  
Prerequisite(s): ART 318

ART 420 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

ART 421 Printmaking Practicum  
Hours 3  
Provides students with a practical experience in the printmaking field by working on-site with artists, designers, or other visual arts professionals.  
Prerequisite(s): 6 hours of 300-level printmaking courses from ART 320, ART 321, ART 325, ART 329

ART 422 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

ART 423 Public Sculpture  
Hours 3  
This course is designed to introduce and familiarize the student to the fundamental issues involving both making and thinking in three dimensions as applied to making art in the public realm. Assignments are formed to familiarize the student with a variety of materials and techniques that make up the foundations with which to address public sculpture. We will be developing proposals for public art to be placed and installed around Tuscaloosa. Classes will take place in the form of class discussions, guest lecturers, and studio work days.

ART 424 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

ART433 Package Design
Hours 3
An intermediate course to package design, this course covers the history, science and process of package design. Students will explore 3D templates, typography, color and imagery to design and assemble an array of structures that follow the strategy of a creative brief.
Prerequisite(s): ART 315

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 344

ART496 BA Studio Capstone
W
Hours 3
This is an interdisciplinary capstone course that represents the culmination of the BA in Studio Art degree. Focusing on issues pertaining to professional practices, this course is designed to assist students as they prepare for the next step in their education and/or in their work as professional studio artists or work as professionals in art related fields after they leave the University. To this end, students will develop a written final paper, produce promotional materials, refine verbal communication in the discussion of their work, and hone various other skills in the development of professional practices. Writing proficiency is required for a passing grade in this course. A student who does not write with skill normally required of upper-division students will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): Students must have completed a minimum of 21 hours in ART and ARH course work.

Writing

ART498 BFA Studio Capstone
W
Hours 3
The BFA Capstone is an interdisciplinary course that represents the culmination of the BFA 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 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.

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.

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.

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

AS103 Introduction to Research
Hours 1-2
This course exposes students to research and creative activities being conducted by faculty in the College of Arts & Sciences. Lectures provided by A&S faculty members help students learn how new knowledge is created, receive career advice, and potentially lead to students identifying faculty mentors. This course is open to all majors.

AS104 Mentored Research Experience
Hours 1-3
This course allows students to execute creative projects or research with a faculty mentor. Students and their faculty mentor will be required to develop an Undergraduate Research Mentoring Agreement in consultation with the College Coordinator of Undergraduate Research. This course is open to all majors. Students taking AS 104, however, cannot also take UA 155 or UA 156. AS 104 can be taken for a maximum of 6 credit hours. Since credit hours are variable, course expectations will be adjusted to reflect the desired credit hours.

Prerequisite(s): Permission from the Coordinator of Undergraduate Research for the College of Arts & Sciences is required for students to take this course.

AS150 Evolution for Everyone
S8
Hours 3
This course is designed to open students minds to what evolution is and how it applies to all life. Toward that end, students will view lectures given by evolutionary scholars from varied institutions and disciplines.

Social and Behavioral Sciences

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.

AS450 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 and BSC 220 and ANT 270 and PHL 380 OR GEO 102
ASL101 American Sign Language I

Hours 3

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. This course is an introduction to American Sign language (ASL) as used within the culturally Deaf Community of the United States. This course will be taught as a hybrid of online and in-class instruction by native users to utilize the best approaches to learning this visual language. This is a SUPERVISED-SELF-STUDY class. Students are required to study the textbooks and practice with assigned materials by themselves outside of the class. Students will also be expected to spend 5 field hours at Deaf-related events within the community. English use will be kept to 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.

Prerequisite(s): Native signers or near native signers of the language are NOT allowed to enroll.

Foreign Language

ASL102 American Sign Language II

FL

Hours 3

This course is the second semester class of American Sign Language, and is intended for students who have taken ASL 101 at The University of Alabama. Any students with background knowledge of this language must see the CLC director BEFORE registering, and shall be assigned an appropriate class level by CLC staff. This course will emphasize the development of practical communicative ability in ASL along with cultural knowledge of Deaf Culture. This is a supervised self-study class. Students are required to study the textbooks and practice with assigned materials by themselves outside of the class. Spoken language 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 instructor and director of the CLC. Regular class attendance and participation is required. Cultural aspects of deaf community will be added to communication skill practice to help students’ understanding of the deaf culture through language.

Prerequisite(s): ASL 101 with a grade of “C” or higher at The University of Alabama, or pass the placement exam under the supervision of the CLC director AND gain permission from the director.

Foreign Language

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.

Prerequisite(s) with concurrency: AY 101

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.
AY204 Solar System Astronomy

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

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

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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): AY 204 or AY 206 PH 253 or permission of instructor

Writing

AY450 Stars & Stellar Evolution

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

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

No description available

AY492 Independent Study II

No description available
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 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.

BSC103 Bama Biology Bootcamp
Hours 1
Bama Biology Bootcamp (B³) is a one-week intensive program for incoming Biological Sciences majors and other freshmen enrolled in introductory biology courses. Students will learn study and time management skills that can be used across all classes.

Prerequisite(s) with concurrency: BSC 114 or BSC 118
BSC108 Intro Biology Non Maj I

N

Hours 4
Lecture and laboratory. Not open to biology majors or minors, or pre-health professions students. 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

BSC113 Introduction to Principles of Biology

Hours 1
This course will provide students with proven strategies that are designed to improve their ability to study and learn biology. Students will gain skills in time management, inquiry-based learning techniques, logical reasoning, and critical thinking to support understanding and application of biology theory.
Prerequisite(s): MATH 100 or MATH 112

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
Laboratory Biology I.
Prerequisite(s) with concurrency: BSC 114
Natural Science

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
Natural Science

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

BSC120 Honors Gen Biology II

N, UH

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.

BSC242 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 100 or CH 117; and CH 102 or CH 105 or CH 118.
Prerequisite(s) with concurrency: 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

BSC301 Cell Biology Laboratory
Hours 3
A laboratory course that focuses on demonstrating Cell Biology principles and developing competency with basic laboratory equipment, methods, techniques and analyses. The course investigates fundamental processes while promoting observation, analysis of problems, and an understanding of biological principles.
Prerequisite(s): BSC 300

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
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
Prerequisite(s) with concurrency: CH 232

BSC312 Microbiology Lab
Hours 2
General microbiology laboratory to accompany BSC 310.
Prerequisite(s) with concurrency: BSC 310 and CH 231

BSC313 Gen Bacteriology Lab
W

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 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 100 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; 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 and elemental intake portion of the energy pyramid and the food web! Human survival is dependent on plants. 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): BSC 114/115 and BSC 116/117, or BSC 118 and BSC 120

**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, fern allies and ferns 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): BSC 114/115 and BSC 116/117, or BSC 118 and BSC 120

**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

**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
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 3
A discussion and problem solving-based course focusing on ecological issues. Emphasis is placed on integration and practical application of ecological concepts. Students will explore theories and practice ecology at different scales of biological organization: individual, populations, species interactions, community organization and environmental processes.
Prerequisite(s): BSC 385

BSC390 Honors Thesis Research
University Honors
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

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
Writing
Hours 2
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

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
Writing
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): BSC 398

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; 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
University Honors
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; BSC 116 and BSC 117; or BSC 120
BSC407 Honors Seminar In Bsc

University Honors

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.

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.

BSC411 Phage Discovery Laboratory

Hours 3

A research-based laboratory course that isolates and characterizes bacterial viruses (phages) using modern microbiology, microscopy, and molecular biology techniques.

Prerequisite(s): Minimum grade of C- in BSC 310 and BSC 312.

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

BSC416 Disease Ecology

Hours 3

This class will focus on the study of host-pathogen interactions within the context of their environment and evolution.

Prerequisite(s): ((BSC 114 Minimum Grade of C- and BSC 115 Minimum Grade of C-) or BSC 118 Minimum Grade of C)) and ((BSC 116 Minimum Grade of C- and BSC 117 Minimum Grade of C-) or (BSC 120 Minimum Grade of C-) and BSC 385 Minimum Grade of C-

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 100 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 315 Minimum Grade of C- and BSC 385 Minimum Grade of C-

BSC421 Personalized and Genetic Medicine

Hours 3

This course will examine biological techniques that are advancing medical research and care. Topics include personalized medicine, direct-to-consumer genetic testing, predictive medicine, pharmacogenomics, and preimplantation genetic diagnosis. It will also explore concomitant ethical, legal, and societal ramifications related to many of these discoveries, such as ownership of biological material, informed consent for human experimentation, the burden of knowledge regarding genetic information, eugenics, and the Genetic Information Non-Discrimination Act.

Prerequisite(s): BSC 300 and BSC 315

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-

BSC423 Honors Personalized and Genetic Medicine

University Honors

Hours 3

This course will examine biological techniques that are advancing medical research and care. Topics include personalized medicine, direct-to-consumer genetic testing, predictive medicine, pharmacogenomics, and preimplantation genetic diagnosis. It will also explore concomitant ethical, legal, and societal ramifications related to many of these discoveries, such as ownership of biological material, informed consent for human experimentation, the burden of knowledge regarding genetic information, eugenics, and the Genetic Information Non-Discrimination Act.

Prerequisite(s): BSC 300 Minimum Grade of B and BSC 315 Minimum Grade of B
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

BSC426 Computational Biology Lab

Hours 3

Computational Biology Lab introduces the programming skills, statistical methods and conceptual foundations necessary to pursue computational analysis and modeling of biological systems. This course is designed for biology students, and it is not expected that students will have prior with experience with computing or programming.

Prerequisite(s): Minimum grade of C- or better in BSC 315 OR BSC 310 OR BSC 385.

BSC428 Biology Of Fishes

W

Hours 4

Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): BSC 385

Writing

BSC430 Introduction to Pharmacology

Hours 3

This course will cover the basic principles of pharmacology including mechanisms of drug action and drug absorption, distribution, metabolism, and excretion.

Prerequisite(s): BSC 300 Minimum Grade of C- and CH 231 Minimum Grade of C-

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

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
BSC445 Honors Endocrinology  
*UH, 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): (BSC 114 Minimum Grade of C- and BSC 115 Minimum Grade of C-) or BSC 118 Minimum Grade of C-) or (BSC 116 Minimum Grade of C- and BSC 117 Minimum Grade of C-) or BSC 120 Minimum Grade of C-) and BSC 300 Minimum Grade of C-

University Honors, Writing

BSC446 Honors Animal Behavior  
*UH, 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): (BSC 114 Minimum Grade of C- and BSC 115 Minimum Grade of C-) or BSC 118 Minimum Grade of C-) or (BSC 116 Minimum Grade of C- and BSC 117 Minimum Grade of C-) or BSC 120 Minimum Grade of C-) and BSC 385 Minimum Grade of C-

University Honors, Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): BSC 114 and BSC 115 or BSC 118; or BSC 116 and BSC 117 or BSC 120; and BSC 385

Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300

Writing

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 BSC 453

BSC453 Biochemistry Lab  

Hours 3

This course is an advanced laboratory course which will introduce students to some basic concepts and common modern techniques used in biochemical/molecular biology/cell biology research. A broad spectrum of techniques will be presented to students, including native protein purification from animal tissue, chromatography, electrophoresis, characterization of molecular weight and sequences of the purified protein through mass spectrometry, enzymatic kinetics studies, and spectroscopic analysis. For students who have interest and aspire to pursue a research career in biochemistry, cell biology, molecular biology, immunology and/or other related biological science areas, this course will provide basic training and experience for a smooth start for their future laboratory work.

Prerequisite(s): Minimum grade of C- or better in BSC 300 AND CH 232

Prerequisite(s) with concurrency: BSC 450

BSC455 Chemical Ecology  

Hours 3

Chemical interactions underlie and generate the biotic environment in which we live. This course will examine chemical interactions between organisms that can happen on different levels, from cell-cell interactions, intraspecific and multitrophic-level interactions to community-wide interactions and ecological processes.

Prerequisite(s): BSC 385 Minimum Grade of C- and CH 231 Minimum Grade of C-
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

BSC458 Drug Discovery Laboratory
Hours 3
A research-based laboratory course that focuses on the identification of new drug leads from natural products using modern pharmacognosy, phytochemistry and phytopharmacology techniques.
Prerequisite(s): BSC 450 Minimum Grade of C- And CH 237 Minimum Grade of C-

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): BSC 114; and BSC 115 or BSC 118; and BSC 116; and BSC 117 or BSC 120; and BSC 300

BSC464 Biology Of Algae
W
Hours 4
Freshwater and marine algae: their structure, development, taxonomy, and distribution. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): BSC 360 or BSC 310

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

BSC467 Honors Data Management and Visualization in R
UH
Hours 3
An introduction to the R computing environment with emphasis on data management and visualization.
Prerequisite(s): BSC 300 Minimum Grade of B or BSC 310 Minimum Grade of B or BSC 385 Minimum Grade of B

University Honors

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
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

BSC477 Invertebrate Zoology  
W  
Hours 4  
The classification, morphology, evolution, and ecology of invertebrate animals. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): BSC 385

BSC478 Microbiomes in Health and Disease  
W  
Hours 3  
This class focuses on the study of host-microbiome interactions within the context of their environment, evolution, and global health.  
Prerequisite(s): BSC 310 Minimum Grade of C-

BSC480 Plant Ecology  
W  
Hours 3  
This course will examine the ecology of plants at different levels: individual, population and community. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): BSC 385 OR 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
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 4  
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 117 minimum grade of C-) and BSC 340 minimum grade of C-

Writing
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

BSC494 Honors Signal Transduction Neuroby
UH
Hours 3
An advanced undergraduate seminar on current topics related to signal transduction as it pertains to the molecular basis of neurobiology and development. Offered in alternate years.
Prerequisite(s): BSC 315 Minimum Grade of B and BSC 450 Minimum Grade of B

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

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.

BSC505 Introduction to Graduate Studies in Biological Sciences
Hours 2
This graduate level course presents topics designed to accelerate the progress and success of incoming and early stage graduate students as they transition into a M.S. or Ph.D. program in Biological Sciences. As a career preparation course, it aims to provide graduate students the practical skills and tools that will be applicable throughout their careers, regardless of their research focus.

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.

BSC511 Phage Discovery Laboratory
Hours 3
A research-based laboratory course that isolates and characterizes bacterial viruses (phages) using modern microbiology, microscopy, and molecular biology techniques.
Prerequisite(s): Graduate Standing or permission of the instructor.

BSC512 Limnology
Hours 3
A study of freshwater environments and organisms living in lakes, ponds, and streams. Offered fall semester.

BSC515 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.

BSC516 Disease Ecology
Hours 3
This class will focus on the study of host-pathogen interactions within the context of their environment and evolution.

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.

BSC521 Personalized and Genetic Medicine
Hours 3
This course will examine biological techniques that are advancing medical research and care. Topics include personalized medicine, direct-to-consumer genetic testing, predictive medicine, pharmacogenomics, and preimplantation genetic diagnosis. It will also explore concomitant ethical, legal, and societal ramifications related to many of these discoveries, such as ownership of biological material, informed consent for human experimentation, the burden of knowledge regarding genetic information, eugenics, and the Genetic Information Non-Discrimination Act.

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.

BSC526 Computational Biology Lab
Hours 3
Computational Biology Lab introduces the programming skills, statistical methods and conceptual foundations necessary to pursue computational analysis and modeling of biological systems. This course is designed for biology students, and it is not expected that students will have prior with experience with computing or programming.

BSC528 Biology Of Fishes
Hours 4
A survey of the structure, function, ecology, and classification of fishes. Offered alternate spring semesters.

BSC530 Introduction to Pharmacology
Hours 3
This course will cover the basic principles of pharmacology including mechanisms of drug action and drug absorption, distribution, metabolism, and excretion.

BSC531 Pathogenic Microbiology
Hours 3
A study of microorganisms related to health and disease. Offered spring semester.

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.

BSC553 Biochemistry Lab
Hours 3
This course is an advanced laboratory course which will introduce students to some basic concepts and common modern techniques used in biochemical/molecular biology/cell biology research. A broad spectrum of techniques will be presented to students, including native protein purification from animal tissue, chromatography, electrophoresis, characterization of molecular weight and sequences of the purified protein through mass spectrometry, enzymatic kinetics studies, and spectroscopic analysis. For students who have interest and aspire to pursue a research career in biochemistry, cell biology, molecular biology, immunology and/or other related biological science areas, this course will provide basic training and experience for a smooth start for their future laboratory work.
**BSC555 Chemical Ecology**  
Hours 3  
Chemical interactions underlie and generate the biotic environment in which we live. This course will examine chemical interactions between organisms that can happen on different levels, from cell-cell interactions, intraspecific and multitrophic-level interactions, to community-wide interactions and ecological processes.

**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.

**BSC558 Drug Discovery Laboratory**  
Hours 3  
A research-based laboratory course that focuses on the identification of new drug leads from natural products using modern pharmacognosy, phytochemistry and phytopharmacology techniques.

**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.

**BSC577 Invertebrate Zoology**  
Hours 4  
The classification, morphology, evolution, and ecology of invertebrate animals.

**BSC578 Microbiomes in Health and Disease**  
Hours 3  
This class focuses on the study of host-microbiome interactions within the context of their environment, evolution, and global health.

**BSC580 Plant Ecology**  
Hours 3  
This course will examine the ecology of plants at different levels: individual, population and community.

Prerequisite(s): None

**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.

BSC585 Foundations in Forest Resources and Conservation
Hours 4
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.

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.

BSC598 Non-Thesis Research
Hours 1-15
Non-Thesis Research.

BSC599 Thesis Research
Hours 1-15
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in Biology. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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

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.

BSC610 Pedagogy in Biological Sciences
Hours 3
Discussion of topics associated with teaching biology at the college-level, including reviews of the literature associated with science education, metacognition, and the scholarship of teaching and learning.
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.

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.

BSC657 Advanced Techniques in Microscopy
Hours 1
This course provides individual training on the use of different equipment in the Optical Analysis Facility in support of graduate student research. Emphasis will be placed on sample preparation techniques and advance microscopy usage (e.g., confocal microscopy, transmission electron microscopy and scanning electron microscopy).

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.

BUI100 Convocation
Hours 1
Experiences to extend and complement the Blount Scholars Program foundation courses. May be repeated once for credit.

BUI101 Foundation I
HU
Hours 3
Culture and nature are not merely the spaces we inhabit, they are the principal objects of human reflection and interpretation, or should be. This year-long course uses a survey of influential texts in philosophy, science, religion, political theory, and literature produced in the West over three millennia to provide students with an introductory practicum in the interpretation of culture and nature. Within this framework, more specific concepts to be explored will include the nature of society, the nature of the individual, the nature of government and justice as regulatory mechanisms between the two, the nature of power in its various forms, the concept of nature itself, and America as a social experiment in which these concepts are continually interpreted and reinterpreted.

BUI102 Foundation II
SB
Hours 3
Culture and nature are not merely the spaces we inhabit, they are the principal objects of human reflection and interpretation, or should be. This year-long course uses a survey of influential texts in philosophy, science, religion, political theory, and literature produced in the West over three millennia to provide students with an introductory practicum in the interpretation of culture and nature. Within this framework, more specific concepts to be explored will include the nature of society, the nature of the individual, the nature of government and justice as regulatory mechanisms between the two, the nature of power in its various forms, the concept of nature itself, and America as a social experiment in which these concepts are continually interpreted and reinterpreted.

Writing

CC201 Introduction to Cyber Criminology
Hours 3
Introduction to the traditional and contemporary forms of cybercrime, including hacking, insider threat, illicit drug markets, cyber bullying, and cyber terrorism.

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
Examination of cyber criminology from a law and policy perspective, including its impact on the Fourth and Fifth Amendment, jurisprudence, and the changing conceptions of privacy and identity.

Prerequisite(s): CC 201

CC395 Internship
Hours 1-9
Opportunity for students to conduct career exploration and build a record of experience in the fields of cyber criminology, network analysis, 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. A maximum of 3 credit hours can be used towards the minor. Instructor must approve the number of hours and the student cannot deviate from those hours without permission of instructor.

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
Examination of the role that technology plays in modern-day policing; provides students with a detailed overview of how the cyber, digital, and technological worlds have historically impacted policing.

Prerequisite(s): CC 201
CC402 Digital Forensic Investigation  
Hours 3
Technical examination of how investigators collect, extract, analyze, and preserve data seized from devices in criminal cases; students gain hands-on experience with different forensic tools and software and learn of the various legal challenges in digital forensic investigations.
Prerequisite(s): CC 201

CC403 Blockchain, Cryptocurrencies, and Criminal Investigations  
Hours 3
Examination of blockchain technology and cryptocurrencies as they pertain to criminal investigations; students will learn how to track and trace Bitcoin transactions using open source and proprietary tools. Students will have the opportunity to become trained and certified from Chainalysis.
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

CC499 Independent Study in Cyber Criminology  
Hours 1-3
Opportunity for students to further build a record of experience in the cyber criminology field by focusing on a topic agreed upon by the instructor and student. A maximum of 3 hours may be used toward the minor.
Prerequisite(s): CC 201

CD102 Communicative Disorders First-Year Overview  
SB  
Hours 3
To learn skills and techniques helpful as they continue on in the college career. Through experiential learning and guest speakers students will learn many things about the field.
Social and Behavioral Sciences

CD103 Communicative Disorders First-Year Overview Honors  
SB, UH  
Hours 3
To learn skills and techniques helpful as they continue on in the college career. Through experiential learning and guest speakers students will learn many things about the field.
Social and Behavioral Sciences, University Honors

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.

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 Mechansm  
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.

CD305 Language Development  
Hours 3
Theory and practice of normal speech and language processes and sequences.
Prerequisite(s): CD 225 and CD 244 and CD 275

CD310 Acoustics of Speech  
Hours 3
This class is about the nature of sound. This is a critical component of producing and comprehending speech.

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 244 CD 275

CD352 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 and CD 244 and CD 275

CD360 Honors Independent Study  
UH  
Hours 1-3
Undergraduate Independent study with faculty members for students enrolled in Honors College. This honors course emphasizes critical thinking, promotes active community and clinical engagement, and encourages peer collaboration. This course also promotes leadership and advocacy in the area of communication science and disorders.
University Honors
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

CD420 Pediatric Disorders
Hours 3
An introduction to articulation, phonology, and language disorders in children and adults as well as literacy and aural rehabilitation.
Prerequisite(s): CD 225 and CD 244 and CD 275

CD422 Acquired Neurological Disorders
Hours 3
An introduction to aphasia, traumatic brain injury, dementia, dysarthria, and apraxia.
Prerequisite(s): CD 225 and CD 244 and CD 275

CD425 Applied Research in CD
W
Hours 3
This course is meant to be a gentle-but-fast introduction to conducting research in Communicative Disorders. The goals of it is to help students position themselves to contribute to research in communicative disorders, construct the plan for completing a thesis during their Master’s studies in CD, and develop practical research skills (conducting a systematic literature review, designing a study with attention to possible biases, analyzing data, and writing for professional audiences). Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): CD 225 CD 244 CD 275 CD 277

Writing

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 244 CD 275

Writing

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): CD 225 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.

CD447 Clinical Practicum I
W
Hours 3
Supervised clinical practice in speech therapy with children. Writing proficiency within this discipline is required for a passing grade in this course. This proficiency will include the ability to write coherent, logical, and carefully edited clinical reports with higher-level critical thinking skills, such as analysis and synthesis. *Clinical Practicum earns the "W" designation for the core.
Prerequisite(s): CD 225 CD 244 CD 275 CD 277 CD 305 CD 420

Writing

CD449 Sociolinguistics in SLP
Hours 3
This course examines the relationship between language and society, with a primary focus on regional variation and social variation resulting from the interaction between various social constructs such as gender, class, culture, and ethnicity, with an emphasis on how variation might impact a clinical setting.
Prerequisite(s): CD 225, CD 226, CD 244, CD 275, and CD 277

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.

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.

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 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 3
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.

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.
CD546 Aural Rehab for the Speech-Language Pathologist
Hours 3
Speech-language pathology students will develop a deeper understanding of how hearing loss impacts speech and language development and learn to deliver evidence-based aural rehabilitation services across the lifespan.

CD549 Sociolinguistics in SLP
Hours 3
This course examines the relationship between language and society, with a primary focus on regional variation and social variation resulting from the interaction between various social constructs such as gender, class, culture, and ethnicity, with an emphasis on how variation might impact a clinical setting.
Prerequisite(s): CD 225, CD 226, CD 244, CD 275, and CD 277

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.

CD575 Dysphagia In Children
Hours 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.

CD578 Counseling in Communicative Disorders
Hours 2
Counseling in Communication Disorders introduces students to basic theoretical foundations of counseling, approaches to conduct interviews, basic counseling strategies, and the role of the counselor in the therapeutic alliance. Students have the opportunity to experience basic counseling strategies via class activities.

CD599 Thesis Research
Hours 1-6
All aspects of the thesis, from selecting a problem to writing the results and conclusions.

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 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. Chemistry topic coverage for CH100 is identical to that of CH101 and CH117 (ch E-10, 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. Students 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 100 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 102. Degree credit is not awarded for both CH 118 and CH 102, or both CH 118 and CH 105. Continuation of CH 117 with basic inorganic chemistry. Includes a systematic study of the elements and of the structures, properties, and reactions of their compounds. Usually offered in the spring semester.

Prerequisite(s): CH 117

Natural Science, University Honors

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

_UH_

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): CH 341 and 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): CH 223 and CH 341 and CH 348  
Prerequisite(s) with concurrency: CH 348

**Writing**

**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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): CH 461 and CH 462  
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 mash 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 complement 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

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

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
Course Inventory

CH519 Integrated Foundational Chemistry: Physical/Analytical
Hours 3
Foundational course in graduate chemistry emphasizing the concepts that underpin and connect all chemistry sub-disciplines.

CH520 Integrated Foundational Chemistry: Structure/Bonding
Hours 3
Foundational course in graduate chemistry emphasizing the concepts that underpin and connect all chemistry sub-disciplines.

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.

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 1
Course requires attendance at presentations given by graduate students and outside speakers. All graduate students in residence are required to register for seminar during academic semesters except when the student has received permission from the departmental Director of Graduate Studies.

CH586 Research Seminar
Hours 1
Presentation of doctoral dissertation or Plan I Master’s thesis research results.
Prerequisite(s): CH 585

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 Techniqa
Hours 3
Fundamentals of spectroscopic techniques for structure determination of organic molecules. Theory and application of IR, NMR, and MS in organic chemistry.

CH660 Adv Research Techniques Chem
Hours 1-6
Independent study in chemistry to learn advanced research techniques used in all areas of chemical research.

CH680 Initial Research Review
Hours 1
MS and PHD students present their initial research project progress to their thesis or dissertation committee, respectively.

CH681 Oral Candidacy Exam
Hours 1
PHD students prepare and present a third-year research report and defend an original research proposal in front of their dissertation committee.
Prerequisite(s): CH 680

CH699 Dissertation Research
Hours 1-12
No description available

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
CHI 201 Intermediate Chinese  
*HU*  
Hours 3  
This is a continuation of Chinese language 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  

CHI 202 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  

CHI 270 An Introduction to Chinese Culture  
Hours 3  
Are there fortune cookies in China? What makes Chinese people Chinese? Delivered in English, this course provides an introduction to Chinese culture and society. In this course, we particularly explore and examine the key transformations that occurred in contemporary and modern Chinese society and its role in the world under the influence of globalization. While its focus lies in modern China, this course provides an overview of many traditional heritages and of how they have deeply affected and shaped Chinese culture.  

CHI 301 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 202  

CHI 302 Third-year Chinese  
Hours 3  
Continuation of CHI 301. 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  

CHI 350 Traditional Chinese Lit Trans  
Hours 3  
Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.  

CHI 351 Modern Chinese Lit Trans  
Hours 3  
Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.  

CHI 353 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  

CHI 354 Conversation/Composition  
Hours 1-4  
Continuation of CHI 353 with more emphasis on reading and writing of Chinese.  
Prerequisite(s): CHI 353  

CHI 401 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 & Cultural Perspectives  
*HU*  
Hours 3  
Designed as the first course to be taken in the Global and Cultural Perspectives minor, this course introduces 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 and Cultural Perspectives curriculum, both core and emphasis-area courses.  
Humanities
CIP202 Introduction to Global and Cultural Perspectives: Exp Lrng

**Course Inventory**

**CIP202 Introduction to Global and Cultural Perspectives: Exp Lrng**

*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**

**CIP401 Out-Going Internation Exchange**

**Hours 12**

Out-Going International Exchange.

**CIP402 Abroad Experience**

**Hours 0**

Non-credit Abroad Experience.

**CIP403 Out-Going Internation Exchange**

**Hours 12**

Out-Going International Exchange.

**CIP405 Out-Going Internation Exchange**

**Hours 12**

Out-Going International Exchange.

**CIP413 Cip Out-Going Enrollment**

**Hours 1-18**

CIP out-going independent/direct enrollment, Study abroad student, graduate or undergraduate, in-state or out-of-state student.

**CIP513 Cip Out-Going Enrollment**

**Hours 1-18**

CIP out-going independent/direct enrollment, Study abroad student, graduate or undergraduate, in-state or out-of-state student.

**CJ100 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**

**CJ220 Law Enforcement**

**Hours 3**

Development of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies; and functions of police officers.

**CJ221 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.

**CJ223 Homeland Security**

**Hours 3**

Overview of the United States Department of Homeland Security from its initiation to present day; exploration of the wide range of issues that the department influences, both policy and operational.

**CJ225 Community Based Corrections**

**Hours 3**

Introduction and overview of the complex world of Community Based Corrections; offering a history of the evolution of punishment and implementation of alternative sanctions.

**CJ230 Social Inequality in the Criminal Justice System**

**W**

**Hours 3**

Examination of 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

**Writing**

**CJ240 Juvenile Delinquency**

**Hours 3**

Examines the extent and patterns of delinquency, theories of delinquency, research on the causes of delinquency, the juvenile justice system, and the prevention and control of delinquent behavior.

**CJ250 Judicial Process**

**Hours 3**

Overview of the judicial component of the criminal justice system in the United States; examines the organization of courts, roles and responsibilities of courtroom players, and systemic challenges.

**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 Criminology and Criminal Justice. A maximum of six hours may be use 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  
Effect of race and/or ethnicity on experiences in the criminal justice system, focusing mostly on research/theories of offending, victimization, and experiences as CJ system workers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): CJ 100  
Writing  

CJ304 Gender and Crime  
W  
Hours 3  
Effect of gender on experiences in the criminal justice system, focusing mostly on research/theories of offending, victimization, and experiences as CJ system workers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): CJ 100  

CJ306 History of Crime and Justice  
Hours 3  
Examination in historical sequence of the perspectives on and methods of crime control, from the traditional to the modern.  
Prerequisite(s): CJ 100  

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  

CJ408 Gendered Justice and the Death Penalty  
Hours 3  
Gender and justice issues related to women sentenced to death; exploring the historical, social, political, and legal issues of serving time in female prisons.  
Prerequisite(s): CJ 100  

CJ409 Women, Law, and Incarceration  
Hours 3  
Examination of the various issues that confront women who are incarcerated; 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 100  

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  
Critically evaluates various root causes and consequences of hate crimes; analyzed through an integration of social science theory, empirical research, and legal scholarship.  
Prerequisite(s): CJ 100  

CJ425 Domestic Violence  
Hours 3  
Examination of violence in the context of domestic situations; an exploration of historical and contemporary contexts, various intervention strategies and preventative measures.  
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
CJ427 Homicide
Hours 3
Analysis of different types of homicide, such as felony-murders, crimes of passion, serial killings, celebrity-perpetrated killings, and/or mass murders.
Prerequisite(s): CJ 100

CJ428 Human Trafficking
Hours 3
Exploration of the various types of human trafficking, their underlying causes and contributing factors, and preventative measures and counter-trafficking initiatives.
Prerequisite(s): CJ 100

CJ430 Drugs, Crime, and Policy
Hours 3
Examines drug-related topics, such as the history of drug use, drug trafficking organizations, and domestic and international drug-related policies.
Prerequisite(s): CJ 100

CJ435 Global Perspectives on Crime and Justice
Hours 3
Exploration of crime and criminal justice systems around the world; various transnational and international crimes, state criminal justice systems, and regional and supranational criminal justice mechanisms are examined.
Prerequisite(s): CJ 100

CJ440 Seminar in Juvenile Delinquency
Hours 3
Examines the historical, philosophical, and legal underpinnings of the juvenile justice system, the institutions related to the control and prevention of delinquent behavior, and the various challenges and dilemmas faced by the professionals working in those institutions.
Prerequisite(s): CJ 100

CJ460 Criminal Law I
Hours 3
Introduction to the general principles of substantive criminal law; exploration of the nature of criminal acts, mental state, defenses, and burdens of proof.
Prerequisite(s): CJ 100

CJ461 Criminal Law II
Hours 3
Examination and analysis of Constitutional provisions and case law governing selected areas of criminal procedure.
Prerequisite(s): CJ 100

CJ470 Mass Incarceration
Hours 3
History, analysis, and evaluation of American correctional institutions, including the sociology of confinement and reform movements within the system.
Prerequisite(s): CJ 100

CJ483 Law And Society
Hours 3
Exploration of the nature, function, and limits of law in society.
Prerequisite(s): CJ 100

CJ490 Special Topics in Criminal Justice
Hours 3
Examination of selected problems and issues in criminal justice. A maximum of twelve hours may be used toward the major.
Prerequisite(s): CJ 100

CJ499 Independent Study In CJ
Hours 1-6
Research under faculty supervision; requires faculty approval. A maximum of 3 hours may be used toward the major or minor.
Prerequisite(s): CJ 100

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.

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.
Prerequisite(s): None

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.

CJ599 Thesis Research
Hours 1-9
Research may be directed by any member of the faculty who accepts responsibility for supervising the thesis.

CL222 Greek Roman Mythology
HU
Hours 3
Greek and Roman mythology is at the spiritual core of much of Western civilization. For the ancients, myth was a religion, a means of alleviating common fears, a way of adding structure to the world, and a means of communicating values from one generation to the next. For literary authors and dramatists from ancient times to now, myth has provided a mechanism for conveying the desired message and image to the reader's mind. For material artists of all periods, myth has been a favorite subject matter. Thus, the investigation of myth should be undertaken early in one's studies in order to lay the foundation for understanding other cultural and artistic disciplines.

Humanities

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
HU
Hours 3
In this course, students examine the vision and impact of Alexander the Great, whose military expedition to North Africa and the Middle East offers a model of a stable political structure on a global scale. Alexander's activity ranged from Greece to India. The world he encountered was as foreign, diverse, strange and occasionally averse to his Western sensibilities as it is to us today. Yet, his vision was to overcome xenophobic tendencies (both among the conquering Greeks and the conquered people) and create a global and inclusive empire that was enriched by the different races, cultures, religions and civilizations it encompassed. This course is broad in scope and content and takes a global perspective regarding the factors of Alexander's success, emphasizing the history and appreciation of the Humanities, rather than simply the ability to perform tasks at the written level. The study of Alexander's achievement cultivates an appreciation of history and the Humanities on a practical level, while developing the students' ability to deal with questions of values, ethics, and aesthetics on a global and historical level.

Humanities

CL333 Greek Civilization: Myth, History, Culture
HU
Hours 3-6
This course is taught in Greece and aims at introducing students to the history and culture of Greece, from antiquity to the modern era. Greece is at the crossroads between Europe, Africa and the Middle East and, as a result, a variety of cultures have left their cultural marks in the area: Egyptian, Minoan, Roman Christian, Muslim and Jewish. Yet, in the course of time, the Greeks have developed their own particular civilization, which is characterized by tremendous inventions, discoveries and technological advancements that have impacted the Western world and its identity. The Greeks do not claim to have invented the wheel, but to have used it in order to give the world theater, art, architecture, the Golden Mean, geometry, the Parthenon, automated machines, medicine, philosophy, the first universities and, above all, democracy. Students participating in the Greece program learn about (i) the value of myths and legends associated with historical sites; (ii) the history and important events in every site; and (iii) the influence of Greek culture on the modern world.

Humanities

CL344 Julius Caesar: Life, Death, and Legacy
W
Hours 3
This course examines the figure of Julius Caesar, and his reception in later eras, through his own writings and later texts that re-imagined his life and achievements. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing
CL350 Roman Religion

Hours 3
This course provides an in-depth study of the public and private religious practices of ancient Rome from the earliest times into the Christian period. Students will learn about the rituals (calendrical festivals, burial rites, special celebrations) and structures (the priesthood, temples, State control, etc.) that constitute Roman religion along with the worldview behind it. Some attention will be given to theoretical aspects and comparative anthropological models. This is an advanced course for majors or minors and for those with a broader interest in the study of religion. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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
Detailed investigations of specific aspects of Greco-Roman civilization such as ancient drama, women’s lives, ancient religion, and technological achievements.

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.

CL450 Aristotle: How Stuff Works

W

Hours 3
This course covers the life, thought, and influence of the Greek philosopher Aristotle with a particular interest in his system of logic (the syllogism), and doctrines of ontology, change, causes, knowledge, the natural world, the soul, ethics, and other aesthetic matters. Readings from Ackrill’s selections of Aristotle will serve as a gateway into these topics. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

CL498 Honors Research in Classics I

UH

Hours 3
Independent research and writing to produce an honors thesis in the fields of Classical Civilization, Latin, or Greek.
Prerequisite(s): Instructor Permission
University Honors

CL499 Honors Research in Classics 2

UH

Hours 3
Independent research and writing to produce an honors thesis in the fields of Classical Civilization, Latin, or Greek.
Prerequisite(s): CL 498 with a grade of B- or better
University Honors

CL533 Exhibition Models in Greek Museums

Hours 3
This course will take students to Greece for three weeks in Summer I to study 14 of the most important museums in the country. Class will be held at the archaeological sites themselves and the accompanying museums. Students will attend lectures on Greek culture, history, and art from prehistory to the modern age, and then visit the archaeological sites and the corresponding museums. The lectures will contextualize the site and the museum exhibits, since the purpose of museums is not only to preserve the material culture but also to display it in such a way as to enhance the content and bring to life aspects of the culture at hand. During each visit, therefore, students will survey both the site and the museum and assess how they make information available to the public, how they use interactive activities to stimulate visitors, and what aspects of the site and the museum succeed in presenting their subject in interesting and innovative ways or fail to do so. Students will also consider the struggle of traditional and well-established museums to re-invent themselves while their budgets are shrinking. This effort is most evident in Greek museums that have become very resourceful in re-organizing their displays at a minimum cost, as they attempt to remain relevant in a world accustomed to be intensely stimulated and entertained.
Prerequisite(s): Students must be enrolled in the Museum Studies program (MUSM) and have completed at least two MUSM courses.
Prerequisite(s) with concurrency: none

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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.
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. The CLC classes are self-
instructional and are best suited for highly motivated and disciplined
students.

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. The
CLC classes are self-instructional and are best suited for highly motivated
and disciplined students.

Prerequisite(s): A grade of C or higher in the CRL 201 of the desired
language taken at UA

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. The CLC classes are self-instructional and are best suited for
highly motivated and disciplined students.

Prerequisite(s): Permission of Instructor Required

CRL302 3rd Year Critical Lang. II
Hours 1-6
This course is a continuation of the 301 course provided through the
UA Critical Languages Center. The course is for students who have
a comprehensive grammatical knowledge, and are already able to
communicate in the target language on the level of daily life in the target
language. Students will work in this class to improve the accuracy and
authenticity of socially correct communication in the target language.

Prerequisite(s): Earn a grade of B- or higher in the target language, AND
submit to the CLC Director a short essay explaining your purpose to
continue studying this language. Only highly motivated students will be
allowed to register for this class. Students who took the 301 level course
at another institution must have approved transfer credits by UA, AND
contact the CLC Director BEFORE registering.

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 3
Introduction to ballet, modern, and jazz dance through theory and
practice at the beginning level.

DN111 Modern Dance Technique I
Hours 3
This course will introduce the basics of modern and contemporary dance
techniques.

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.

DN152 Jazz Technique I-B
Hours 3
Development of jazz dance technique at the beginner level. This course
is designed to provide an introduction to basic jazz technique, including
proper warm-up, alignment work, center work, isolations, traveling
sequences and improvisations.

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 & 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

DN332 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

DN332 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

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 1-3
Independent Study as approved by faculty.

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

DN501 Performance Practicum I-B
Hours 1-3
This course will continue to prepare students for the practical application of technique and the creative process required for dance performance at the graduate level.
Prerequisite(s): Graduate standing in Dance (MFA) or Instructor consent.

DN505 Graduate Teaching Practicum
Hours 1
This course is designed to help graduate students expand and develop their teaching practice through faculty and peer supervision, feedback, and review.
Prerequisite(s): DNCA 503 or DNCA 565, Dance MFA student, or permission of the instructor

DN511 Graduate Contemporary Technique I-A
Hours 1-3
Exploration and development of contemporary dance technique at the graduate level.
Prerequisite(s): Dance MFA student or permission of the instructor

DN512 Graduate Contemporary Technique I-B
Hours 1-3
Continued exploration and development of contemporary dance technique at the graduate level.
Prerequisite(s): Dance MFA student or permission of the instructor

DN521 Graduate Ballet Technique I-A
Hours 1-3
Study of ballet technique at the graduate level.

DN522 Graduate Ballet Technique I-B
Hours 1-3
Continued study of ballet technique at the graduate level.

DN531 Graduate Movement Practice I
Hours 1-3
Exploration of movement styles beyond traditional Western dance forms. May include world dance forms, social dance forms, theatrical movement, or somatic practices.
Prerequisite(s): Dance MFA student or permission of the instructor

DN535 Rhythm, Music and Dance
Hours 3
This course will examine various aspects of music and sound as it relates to dance performance and choreography.
Prerequisite(s): MFA Dance student or permission of instructor

DN540 Graduate Improvisation and Composition I
Hours 3
This course is designed to enhance graduate students’ explorations into creative process with particular attention to improvisational and choreographic abilities.
Prerequisite(s): Dance MFA student or permission of the instructor
DN541 Graduate Improvisation and Composition II
Hours 3
This course is designed to continue to enhance graduate students' explorations into creative process with particular attention to improvisational and choreographic abilities leading into the thesis proposal.
Prerequisite(s): DN 540, Dance MFA student or permission of the instructor

DN551 Graduate Jazz Technique I-A
Hours 1-3
Study of Jazz dance technique at the graduate level.

DN552 Graduate Jazz Technique I-B
Hours 1-3
Continued study of Jazz dance technique at the graduate level.
Prerequisite(s): Graduate Standing, MFA in Dance

DN599 Final Project Research
Hours 1-3
This course engages students in their research design and creative process leading to the MFA Final Project.
Prerequisite(s): DN 541

DN600 Performance Practicum II-A
Hours 1-3
This course serves as preparation for the practical application of technique, the creative process and the development of artistry required for dance performance at the professional level.
Prerequisite(s): DN 500 or DN 501, or permission of instructor

DN601 Performance Practicum II-B
Hours 1-3
This course serves as continued preparation for the practical application of technique, the creative process and the development of artistry required for dance performance at the professional level.
Prerequisite(s): DN 500 or DN 501, or permission of instructor

DN602 Staging Repertoire
Hours 1-3
This course will examine the process required for restaging and reconstructing dance repertoire.
Prerequisite(s): DN 535, or permission of instructor

DN611 Graduate Contemporary Technique II-A
Hours 1-3
Advanced exploration and development of contemporary dance technique at the graduate level.
Prerequisite(s): DN 511 or DN 512, Dance MFA student or permission of the instructor

DN612 Graduate Contemporary Technique II-B
Hours 1-3
Continued advanced exploration and development of contemporary dance technique at the graduate level.
Prerequisite(s): DN 511 or DN 512, Dance MFA student or permission of the instructor

DN621 Graduate Ballet Technique II-A
Hours 1-3
Advanced study of ballet technique at the graduate level.
Prerequisite(s): DN 521 or DN 522

DN622 Graduate Ballet Technique II-B
Hours 1-3
Continued advanced study of ballet technique at the graduate level.
Prerequisite(s): DN 521 or DN 522

DN631 Graduate Movement Practice II
Hours 1-3
Continued exploration of movement styles beyond traditional Western dance forms. May include world dance forms, social dance forms, theatrical movement, or somatic practices.
Prerequisite(s): DN 531, Dance MFA student or permission of the instructor

DN640 Collaborative Practice
Hours 3
This class will be a laboratory for graduate choreographers, directors, designers, and composers to create collaboratively.
Prerequisite(s): DN 540, Dance MFA student or permission of the instructor

DN650 Creative Process in Dance I
Hours 1-3
This course explores creative processes in various dance styles. Students will research the chosen subject matter with a public presentation as the culmination of the class.
Prerequisite(s): DN 541, or permission of the instructor

DN651 Graduate Jazz Technique II-A
Hours 1-3
Advanced study of Jazz dance technique at the graduate level.
Prerequisite(s): DN 551 or DN 552

DN652 Graduate Jazz Technique II-B
Hours 1-3
Continued advanced study of Jazz dance technique at the graduate level.
Prerequisite(s): DN 551 or DN 552

DN655 Creative Process in Dance II
Hours 1-3
This course continues to explore creative process in relation to concert performance and promotion.
Prerequisite(s): DN 650, or permission of the instructor

DN660 Laban/Bartenieff Studies
Hours 3
An introduction to Laban/Bartenieff Studies through movement integration, observation, notation, analysis, and application.
DNCA114 Dance Appreciation
FA
Hours 3
An introduction to the art of dance focusing on cultural influences, functions of dance in society, styles, choreographic trends, and notable artists and dances.
Fine Arts

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 class 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.

DNCA324 Lighting and Sound for Dance
Hours 3
This is a technical production course specifically for dance majors and covers the practical aspects of theatre technology of lighting and sound.

DNCA330 Costumes for Dance I: Introduction to Design and Production Methods
Hours 3
This course is designed to introduce students to the costume design and production processes for dance.

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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Dance Majors only.
Writing

DNCA503 Graduate Teaching Methods
Hours 3
This course is designed for graduate dance students to analyze the principles, methods, philosophy, materials, and practice of teaching in colleges and universities.
Prerequisite(s): Dance MFA student or permission of the instructor

DNCA565 Science of Dance Training
Hours 3
This course explores dance science and somatics. Includes investigation of techniques for training dancers in order to minimize risk of injury and maximize potential.
Prerequisite(s): Graduate Standing in Dance or permission of instructor
DNCA570 Research Methods in Dance
Hours 3
Graduate course in research methods for dance.
Prerequisite(s): Graduate standing, Dance (MFA) or permission of instructor

DNCA599 Final Project Research
Hours 1-3
This course involves the continued and/or final implementation of scholarly research leading to the MFA Final Project in Dance.
Prerequisite(s): DN 599

DNCA630 Professional Issues in Dance
Hours 3
This course is designed to help students prepare for positions in academic and professional settings. Students will create a personal website, write their resume/CV, articulate personal goals and career aspirations, practice interview skills, and examine resources for network building.
Prerequisite(s): Dance MFA student or permission of the instructor

DNCA660 Body Politics in Dance
Hours 3
This course provides students ways to look at major dance works and choreography figures prominent in the development of dance in America to enhance the viewing and discussion of dance.
Prerequisite(s): Dance MFA student or permission of the instructor

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 rhetorical strategies, critical reading and thinking skills, composing processes, sentence-level conventions, reflection skills, as well as university-level research and source usage techniques. 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 Scholars Program. Covers rhetorical strategies, critical reading and thinking skills, composing processes, sentence-level conventions, reflection skills, as well as university-level research and source usage techniques. 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

EN101 English Composition
FC
Hours 3
Introduction to rhetorical strategies, critical reading and thinking skills, composing processes, sentence-level conventions, and reflection skills needed to participate successfully in the University of Alabama discourse community. Intended for native speakers of English. 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
Hours 3
Continuation of students’ practice in rhetorical strategies, critical reading and thinking skills, composing processes, sentence-level conventions, and reflection skills. The course also emphasizes university-level research and source usage techniques. Intended for native speakers of English. 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
EN120 English Comp I Non-Native Spkr
FC

Hours 3
Introduction to rhetorical strategies, critical reading and thinking skills, composing processes, sentence-level conventions, and reflection skills needed to participate successfully in the University of Alabama discourse community. Intended and required for international students who are non-native speakers of English. Exempted for transfer students who have earned a “C” or better grade in a face-to-face, university-level composition course at the 101 level (ESL courses do not qualify). International students who have graduated from a U.S. high school have the option to take either this course or EN 101. 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.

Prerequisite(s): ELC 110 and ELC 111 with a minimum grade of C; or ELL 116 and ELL 126 with a minimum grade of C; or iBT TOEFL minimum sub-scores of 18 on both the Speaking section and the Writing section; or IELTS minimum sub-scores of 6.0 on both the Speaking section and the Writing section; or DET minimum score of 120; or PTE minimum score of 54 with a Writing minimum sub-score of 51 OR a Speaking minimum sub-score of 51.

Freshmen Composition

EN121 English Comp II Non-Native Spkr
FC

Hours 3
Continuation of students’ practice in rhetorical strategies, critical reading and thinking skills, composing processes, sentence-level conventions, and reflection skills. The course also emphasizes university-level research and source usage techniques. Intended and required for international students who are non-native speakers of English. Exempted for transfer students who have earned a “C” or better grade in a face-to-face, university-level composition course at the 102 level (ESL courses do not qualify). International students who have graduated from a U.S. high school have the option to take either this course or EN 102. 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.

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 104; 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 104; 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 104; 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 104; or EN 120 and EN 121

Humanities, Literature

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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 104; or EN 120 and EN 121

Humanities, Literature

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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 104; or EN 120 and EN 121

Humanities, Literature

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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 104; or EN 120 and EN 121

Humanities, Literature, University Honors

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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 104; or EN 120 and EN 121

Humanities, Literature, University Honors

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EN217 Honors World Literature I  
**HU, L, UH**

Hours 3

Honors Survey of world literature from the Classical period to the Renaissance.

Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 104; or EN 120 and EN 121

Humanities, Literature, University Honors

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EN218 Honors World Literature II  
**HU, L, UH**

Hours 3

Honors Survey of world literature from the Enlightenment to the Modern period.

Prerequisite(s): (EN 101 and EN 102; or EN 103; or EN 104) or (EN 120 and EN 121)

Humanities, Literature, University Honors

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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 104; or EN 120 and EN 121

Humanities, Literature, University Honors

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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 104; or EN 120 and EN 121

Humanities, Literature, University Honors

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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 104; or EN 120 and EN 121

Humanities, Literature

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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 104; or EN 120 and EN 121

Humanities, Literature
EN251 Honors African American Literature I  
HU, L, UH  
Hours 3  
Honors 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 104; or EN 120 and EN 121  
Humanities, Literature, University Honors

EN252 Honors African American Literature II  
HU, L, UH  
Hours 3  
Honors 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 104; or EN 120 and EN 121  
Humanities, Literature, University Honors

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 Writing  
Hours 3  
Study of basic principles of writing fiction. Reading and assigned writing experiments in a broad range of forms.  
Prerequisite(s): 6 hours of 200-level EN courses

EN303 Poetry Writing  
Hours 3  
Study of basic principles of writing poetry. Reading and assigned writing experiments in a broad range of poetic forms.  
Prerequisite(s): 6 hours of 200-level EN courses

EN305 Creative Nonfiction Writing  
Hours 3  
Study of the basic principles of writing creative nonfiction. Reading and assigned writing experiments in a broad range of forms of the genre.  
Prerequisite(s): 6 hours of 200-level EN courses

EN307 Special Topics in Applied Creative Writing  
Hours 3  
Study of various practical applications for creative-writing-related skills and techniques, including arts programming, teaching, and literary publishing.  
Prerequisite(s): 6 hours of 200-level EN courses

EN308 Forms Of Creative Writing  
Hours 3  
Special topics in Creative 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 6 hours.  
Prerequisite(s): EN 301 or EN 303 or EN 305

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): 12 hours in English, including 6 hours at the 200-level.

EN310 Special Topics Writing  
Hours 3  
Topics vary from semester to semester; examples are legal writing, writing about the social sciences and reading and writing in cyberspace. May be repeated for a maximum of 6 hours.  
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 104; or EN 120 and EN 121

Writing

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 Linguistic 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 Literatur

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.

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.

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.
Course Inventory

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.

EN350 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.

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 Creative 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 9 hours.  
Prerequisite(s): Any two of the following: EN 200 or EN 301 or EN 303 or EN 305 or EN 308.

**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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.

**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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.

**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 Modern English Grammar**  
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.  
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.  
Prerequisite(s): 18 hours in English, including 6 hours at the 200-level, and 6 hours at the 300-level.

**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.

**EN432 Composition-Rhetoric: Approaches and Methods**  
W  
Hours 3  
Provides an overview of the field of composition studies: teaching writing, history of the discipline, and discussion of professional issues in rhetoric and composition.  
Prerequisite(s): EN 101 and EN 102; or EN 103; or EN 104; or EN 120 and EN 121 with a grade of C- or better

**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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): EN 399 University Honors, Writing

EN500 Special Topics
Hours 3
Special topics.

EN512 Computers And Writing
Hours 3
Seminar focused on the use of technology to help students improve their writing and to help teachers improve their writing instruction. CRES core course.

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 Modern English Grammar
Hours 3
An intensive investigation of the structures in the English language, including phonology, morphology, syntax, and semantics.

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

EN541 Strategies for the Profession
Hours 1
In this one-hour course, graduate students learn professional strategies and practices. Topics may include practical advice for navigating graduate school, finding funding, preparing for conferences, and applying for academic and non-faculty posts. Students might expect to produce all the standard materials required to apply for an academic job, major research grant, or postdoctoral fellowship.

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 of Teaching Writing  
Hours 3  
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
Survey of empirical research methods, with practice of methodological frameworks employed in composition/rhetoric research reports and designs. CRES core course.

EN654 Sem Visual & Digital Rhetoric
Hours 3
Seminar focused on understanding rhetoric in visual and digital texts, with emphasis on pedagogical applications. CRES core course.

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

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
In this course, the first of a two-semester program, students will acquire essential fundamental French structures and vocabulary and will learn their appropriate socio-linguistic application in both spoken and written communication. Through classroom discussions, a diverse set of media resources (films, cultural videos, literary texts, songs, artwork), and various projects students will explore the value systems of contemporary French and French-speaking cultures and societies. This work will help students develop a critical vocabulary for describing and interpreting the aesthetic qualities of various art forms (including paintings by Edgar Degas, music by Jacques Brel, and the spectacle of Cirque du Soleil). This course develops basic communicative competence as well as intercultural competence and is taught in French.

Foreign Language, Humanities
FR102 Elementary French II
FL, HU
Hours 4
In this course, the second of a two-semester French program, students will continue to advance their knowledge of essential fundamental French structures and vocabulary through learning their appropriate socio-linguistic application in both spoken and written communication. Through classroom discussions, use of a diverse set of media resources (films, cultural videos, readings, literary texts, songs, artwork) and various projects students will further explore multiple perspectives and develop deeper knowledge of the value systems of contemporary French and French-speaking cultures and societies. Students will also expand their critical vocabulary for describing and interpreting the aesthetic qualities of various art forms, branching into literary analysis (including poetry by Jacques Prévert; music by Tiken Jah Fakoly; and narrative texts by Jean-Jacques Sempé, René Goscinny, Eugène Ionesco, and Magali Morsi). This course expands basic communication skills as well as intercultural competence and is taught in French.

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
FL, HU
Hours 3
The first course of the two-semester program of intermediate French at UA. In this course, you will consolidate and expand your listening comprehension, speaking, reading and writing skills in French. You will broaden your cross-cultural understanding as you read various literary and journalistic texts, watch short films, and listen to songs or other multimedia broadcasts.

Prerequisite(s): A grade of C- or higher in FR 102; or the equivalent from another institution; or 3+ years of high school French; or a 3 on the AP French exam.

Foreign Language, Humanities

FR202 Intermediate French
FL, 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): A grade of C- or higher in FR 201; or the equivalent from another institution; or 4+ years of French in middle and high school; or a 4 on the AP French exam.

Foreign Language, 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): Completion of one of the following: FR 201 (or FR 211), FR 202 (or FR 212), FR 206, FR 321, FR 322, FR 323, FR 324, FR 328, or FR 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): Completion of one of the following: FR 201 (or FR 211), FR 202 (or FR 212), FR 206, FR 321, FR 322, FR 323, FR 324, FR 328, or FR 329

FR211 Honors Intermediate French I
HU, UH
Hours 3
In this course students will expand their listening comprehension, speaking, reading and writing skills in French. They will broaden their cross-cultural understanding through reading various literary and journalistic texts, watching short films, and listening to songs or other multimedia broadcasts. Students will refine their grammatical and vocabulary knowledge within a culturally rich context.

Prerequisite(s): A grade of C- or higher in FR 102 or the equivalent from another institution; or 3+ years of high school French; or a 3 on the AP French exam.

Humanities, University Honors

FR212 Honors Intermediate French II
HU, UH
Hours 3
Students will continue to refine their listening comprehension, speaking, reading and writing skills in French. Through various projects, creative writing activities, extensive grammar review, and class discussions based on various literary and journalistic texts, short films, advertisements, and multimedia broadcasts, students will expand their linguistic and cultural competences.

Prerequisite(s): A grade of C- or higher in FR 201 or FR 211 or the equivalent from another institution, or 4+ years of high school French; or a 4 on the AP French exam.

Humanities, University Honors

FR310 Global Citizenship through Service Learning in French
FL
Hours 3
This course is designed to expand upon the existing volunteer program FLEX (French Language Exploration) which currently teaches French and Francophone culture at University Place Elementary school. Students enrolled in this course will engage in a hands-on service-learning project at University Place Elementary school lessons with an emphasis on understanding different Francophone cultures and understanding what it means to be a global citizen. This experiential learning course will develop students’ French language skills, leadership skills, along with interpersonal and presentational communication skills while gaining real-world experience using the French language. Through course readings, discussions, development of cultural and language teaching materials, service at the local elementary school, and written reflection on the experience students will gain a deeper understanding of the complicated connection between language, culture, identity, and global citizenship.

Prerequisite(s): FR 201 and FR 202

Foreign Language
FR321 Writing and Imagination

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. In this third-year French-language course, students focus on improving reading, writing, listening and speaking skills. Students develop basic knowledge of, strategies and techniques for reading French for comprehension and analysis without the massive and systematic use of a dictionary. With that purpose in mind, we read accessible and engaging short stories and online or print articles introduced and followed by analytical and creative writing activities that integrate the techniques of description, characterization, narration, and dialogue effectively. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Class instruction, interactions and participation will be entirely in French.

Prerequisite(s): A grade of C- or higher in FR 202 or FR 212. Study abroad equivalent: FR 328.

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 or FR 212

FR323 Writing and Analysis

W

Hours 3

In this dynamic and intensive writing course, students develop and perfect their conversation and writing skills in French as they engaged their perspective and activate their creativity through assignments based on visual, audio, and print media. In this course, writing assignments will be progressive (from 1-2 pages to 4 pages or more), promote peer-editing, offer ample opportunities for rewrite, and emphasize fluidity, coherency in argument as well as grammatical accuracy in French. Because the course carries a W-designation, students fulfill a University of Alabama writing requirement through extensive writing practice that also calls upon and develops critical thinking skills. A passing grade in a W designated course is contingent upon students writing coherent, logical, carefully edited prose in a minimum of two papers, one of which must be completed, graded, and returned by mid-semester. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): A grade of C- or higher in FR 202 or FR 212

Writing

FR324 French Culture and Language for Business Development

Hours 3

This course uses a semester-long experiential approach designed to engage students in performing real-life and business-related tasks in French. In the course, students progress from performing internship-search related activities to working as an intern for a sustainable travel organization. Analysis of work-related protocols, written and oral communications, CVs, job interviews, travel and professional documentation, political and economical challenges in French-speaking countries provide opportunities to develop interpersonal, interpretive and presentational skills as well as engage a critical reflection on local, political, historical and economic factors that affect tourism in French-speaking countries.

Prerequisite(s): FR 321 or FR 322 or FR 323

FR325 Cultures and Conversations

FL

Hours 3

Using authentic multimedia documents (extracts from newspaper, newscasts, films and radio shows, polls, infographics, advertising, short films, social media posts, press photos), this course explores culturally situated perspectives as well as concepts such as freedom, equality, solidarity secularism, and lifestyle using the thematic backdrop of food and fashion.

Prerequisite(s): French 202; or equivalent from another institution; or a 5 on the AP French exam

Prerequisite(s) with concurrency: FR 202

Foreign Language

FR326 Business French

HU

Hours 3

This course concentrates on the mastery of business vocabulary useful for those working in international corporations and various economic institutions in France and throughout the French-speaking world. This vocabulary will be learned and practiced through a series of activities encountered by those who live and work in France and Francophone countries. Students will also become aware of the cultural contexts in which such vocabulary is used. Students will become familiar with actual forms and manuals commonly found in the French-speaking business world (taxes, import-export forms, insurance, banking, etc.). Subjects of study include telecommunications, banking, information technology, sales, advertising, the stock market and investments, sales and revenue taxes, and the organization of companies. At the end of the course, students will have the option to sit for the exam leading to a French diploma certified by the Chambre de Commerce et d’Industrie Paris-Ile-de-France, a diploma which is recognized worldwide.

Prerequisite(s): Course prerequisite is French 202 or equivalent

Humanities
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  
Study abroad equivalent of FR 322: Advanced French Grammar.  
Prerequisite(s): FR 201

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 Civilizatn-Abroad  
Hours 3  
Offered abroad. May be used in lieu of FR 331 to satisfy the requirements of the French major. In-context total immersion will be conducive to a better understanding of French culture, history, and civilization. Many visits to museums, historic sites, and artistic performances will allow for hands-on experiences. This knowledge will be reinforced in classes held abroad to improve language and cultural skills.  
Prerequisite(s): FR 321 or FR 322 or FR 323

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered fall semester.  
Prerequisite(s): FR 321 or FR 322 or FR 323

FR351 Survey Fr Literature II  
L, W  
Hours 3  
Survey of French Literature II covers the post-revolutionary through the modern periods. Key authors, from Chateaubriand to Mallarmé (19th century), from Proust to Anne Hébert (20th century), and key literary movements, from pre-romanticism to the new novel, are introduced with a view to exposing students to modern French literary history. A selection of works of various genres (poetry, short story, novel, play) are read, analyzed, and discussed in relation to past and present. Writing proficiency is required for a passing grade in the course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade no matter how well the student performs in other areas of the course. This means written assignments (all in French) require coherent, logical, and carefully edited prose, and students are expected to demonstrate higher-level critical thinking skills, including analysis and synthesis. Class instruction and participation will be in French.  
Prerequisite(s): FR 321 OR FR 322 OR FR 323

FR352 Survey of Global French Literature  
L, W  
Hours 3  
Explores important works of literature of French-speaking regions around the world including the Caribbean, Africa, and Canada. Using a trans-historical approach, this course includes texts from the major literary movements of the late- and post-colonial periods, such as Négritude, Pan-Africanism, Créolité, and Antillanité. Works of various genres (nonfiction, fiction, poetry, theater, and film) are analyzed in relation both to literary and geopolitical history. This course is conducted exclusively in French. As a W-designated class, writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): FR 321 or FR 323

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 faculty-led UA in France summer program. Topic to be determined in consultation with the instructor or program director.  
Prerequisite(s): With a C- or better FR 202 or FR 212

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, Marketing and Communication  
*FL, HU*  
Hours 3  
This course is articulated around a semester-long experiential simulation designed to connect you with current real-world marketing and digital practices in French. With a partner, you will develop a website to launch a fictitious product or service on the French market. Throughout the semester students will explore brand identities, characteristics of French consumers, marketing strategies and advertising practices. Students will reflect on issues of global versus local markets through analysis of written, audio, and video communications, advertising, and marketing material, navigation of French company websites, and study of French corporate businesses and cultures.  
Prerequisite(s): FR 321, FR 323, FR 324, or FR 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, FR 322, or FR 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  
FR477 French Cinema  
*FC, FL*  
Hours 3  
Critical study of seminal motion pictures produced in French fostering an appreciation of cinema as art. Emphasis on student research and presentations. Film screenings are a necessary part of this course.  
Prerequisite(s): Prerequisites: FR 321 or FR 322 or FR 323 or FR 328  
Freshmen Composition, Foreign Language  
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.  
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.

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.

FR535 Bande Dessinée
Hours 3
Culture, language, image, and narrative as uniquely captured and represented in French Bande Dessinée. Recognized and developed as an art form in the Francophone spaces of Europe and beyond, graphic novels and comics incorporate a wide spectrum of topics, resulting in complex representations, both factual and fictional. The development and methods of the medium, especially in France and Belgium, are highlighted, as well as the semiotics of the multimodal systems used in the creation of comics.

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, Molière and Racine).

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.

FR577 French Cinema
FA, FL
Hours 3
Critical study of motion pictures produced in French with emphasis on student research and presentations. Film screenings are a necessary part of this course.

Prerequisite(s): FR 321, FR 322 or FR 323 or FR 328

Fine Arts, Foreign Language

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

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.
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 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 (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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

Prerequisite(s): FRS 101

Foreign Language

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

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 100 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

GEO346 Computers in Earth Science
C
Hours 4
This course provides an introduction to computer programming in the Earth, Environmental, and Planetary Sciences. The course covers basic coding concepts, theory, and logic in context of examples related to modeling and data analysis in the Earth Sciences. Students that take this course will have a foundation in basic programming in an interpreted language sufficient for more advanced computational courses in the discipline. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 125 or MATH 145; and CS 101, CS 102, or CS 111

Computer Science

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

GEO364 Dinosaur Paleobiology
W
Hours 3
This is an introductory course that focuses on the current study of the evolution, adaptation, and extinction of dinosaurs, and other Mesozoic reptiles. Using dinosaurs as a "biological model", students will be introduced to key concepts of evolutionary biology, historical geology, fossilization, functional morphology, physiology, biomechanics, among others. Also, this is a writing course and therefore, writing proficiency within the discipline is required for a passing grade in this course.
Writing

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 or PH 105

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

GEO403 Petroleum System Analysis
Hours 3
This course will cover the geologic events that leads to formation of petroleum systems and petroleum plays in different type of sedimentary basins which are filled by coupled processes that cause subsidence and delivery of sediments to the basin. The sedimentary fill is modified by compaction as well as the transport of heat and reactive fluids through the rock matrix during the sedimentation and lithification. These processes determine the amount and nature of oil and/or gas accumulation and production in a basin. Petroleum system analysis requires the integration of geology, geophysics, petrophysics, geochemistry, and risk analysis. The generated basin models incorporate data obtained directly from outcrops via geologic mapping, petrographic thin section analysis, geochemical data, seismic reflection profiles and well log analysis if there are wells drilled for oil and gas exploration in a sedimentary basin.
Prerequisite(s): GEO 101
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered in the fall semester.
Prerequisite(s): GEO 101 The Dynamic Earth GEO 314 Ign. & Meta. Petrology
Writing

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.
Prerequisite(s): CH 102 or 118 (C- or better), and GEO 101 or 102 (C- or better), and MATH 112 or 115 (C- or better)

GEO436 Honors Sem In Geology
UH
Hours 1
Oral presentations on current geological topics. Offered in the spring semester.
University Honors

GEO450 Geostatistics
C, W
Hours 3
This course serves as an introduction to statistics for the Earth and Environmental Sciences. Topics include an introduction to probability theory, experimental design, statistical hypothesis testing, regression, clustering, Kriging and other forms of spatial analysis, time series analysis, and an introduction to machine learning. All material is covered theoretically and with practical implementation in Matlab. Computing proficiency is required for a passing grade in this course. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. The course includes two lectures and one computer lab weekly.
Prerequisite(s): MATH 125 or MATH 145, and CS 101 or CS 102

GEO465 Introduction to Planetary Science
W
Hours 3
This course will provide an overview of the major processes that have shaped our Solar System, with some focus on extra-terrestrial materials and mission data. The course will examine the major aspects of our Solar System, considering physical, chemical and geological concepts. We will explore the different bodies in the Solar System, and learn from the data collected from missions and analytics on samples. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): GEO 210, or PH 106 plus one GEO 101-105 course. Recommended: AY 204, GEO 470.
Writing

GEO469 Light Stable Isotope Geochemistry
Hours 3
This course is an introduction to concepts of stable isotope fractionation, and the application of stable isotopic measurements to answering geological questions. This class specifically focuses on light elements, primarily H, C, O, S, and N, though other elements/systems may be explored if there is time/interest.
Prerequisite(s): CH 210, or PH 110 plus one GEO 101-105 course.

GEO470 Introduction to Geochemistry
Hours 3
Introduction to the field of low-temperature geochemistry (elementary chemical equilibria and thermodynamics, solubility and redox equilibria, organic geochemistry), with an emphasis on solving geologic problems. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered in the Spring semester.
Prerequisite(s): CH 101 or CH 117, and CH 102 or CH 118
Prerequisite(s) with concurrency: GEO 314

GEO476 Environmental Field and Laboratory Methods
Hours 3
Theory, techniques, and applications of methods for the environmental sampling and geochemical analysis of rocks, soils, and aqueous fluids. Offered in alternate Fall semesters.
Prerequisite(s): CH 101 or CH 117, and CH 102 or CH 118, Senior/Graduate standing, or permission of instructor.

GEO492 Geologic Field Writing 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 1-4
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.

GEO502 Communicating Geology
Hours 3
Evaluate and develop effective scientific communication skills including writing, oral presentations and poster presentations.
Prerequisite(s): None

GEO503 Petroleum System Analysis
Hours 3
The course will cover the geologic events that lead to the formation of petroleum systems and plays. Geologic events form sedimentary basins by causing subsidence and delivery of sediments to a basin. This sedimentary fill is modified by compaction as well as the transport of heat and reactive fluids through the rock matrix during sedimentation and lithification. These processes determine the amount and nature of oil and/or gas accumulation and production in a basin. Petroleum system analysis requires the integration of geology, geophysics, petrophysics, geochemistry, and risk analysis. The generated basin models incorporate data obtained directly from outcrops via geologic mapping, petrographic thin section analysis, geochemical data, seismic reflection profiles and well log analysis if there are wells drilled for oil and gas exploration in a sedimentary basin.
Prerequisite(s): Department of Geological Sciences Graduate student standing or Instructor's consent.

GEO507 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.

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 Analysis**  
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 Advanced 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.

**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

**GEO550 Geostatistics**  
C, W  
Hours 3  
This course serves as an introduction to statistics for the Earth and Environmental Sciences. Topics include an introduction to probability theory, experimental design, statistical hypothesis testing, regression, clustering, Kriging and other forms of spatial analysis, time series analysis, and an introduction to machine learning. All material is covered theoretically and with practical implementation in Matlab. Computing proficiency is required for a passing grade in this course. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. The course includes two lectures and one computer lab weekly.

Prerequisite(s): MATH 125 or MATH 145; and CS 101, CS 102, or CS 110

**GEO554 Electron Microscopy in the Earth Sciences**  
Hours 4  
This course will involve operation and use of the scanning electron microscope (SEM) for applications relevant to the Earth, environmental, and planetary sciences. Topics will include sample preparation, secondary electron imaging, backscattered electron imaging, x-ray element mapping, and energy/wavelength dispersive spectroscopy. Laboratory exercises will provide hands-on experience in preparing geologic samples and obtaining data on those samples with the SEM.

**GEO556 Comparative Structural Geology**  
Hours 3  
Analysis of the original literature on structural families and deformation-mechanism associations, emphasizing the low-temperature environment.

**GEO557 Introduction to Geochemistry**  
Hours 4  
Introduction to the field of low-temperature geochemistry (elementary chemical equilibria and thermodynamics, solubility and redox equilibria, organic geochemistry), with an emphasis on solving geologic problems. Three lectures and one seminar per week. Offered in the Spring semester.

Prerequisite(s): GEO 314

**GEO565 Comparative Structural Geology**  
Hours 3  
Analysis of the original literature on structural families and deformation-mechanism associations, emphasizing the low-temperature environment.

**GEO569 Light Stable Isotope Geochemistry**  
Hours 3  
This course is an introduction to concepts of stable isotope fractionation, and the application of stable isotopic measurements to answering geological questions. This class specifically focuses on light elements, primarily H, C, O, S, and N, though other elements/systems may be explored if there is time/interest.

Prerequisite(s): CH 102 or 118 (C- or better, and, GEO 101 or 102 (C- or better), and MATH 112 or 115 (C- or better)

**GEO570 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

**GEO571 Environmental Field and Laboratory Methods**  
Hours 3  
Theory, techniques, and application of methods for the environmental sampling and geochemical analysis of rocks, ores, and aqueous fluids. Offered in alternate Fall semesters.

Prerequisite(s): CH 101 and CH 102, or permission of instructor.

**GEO576 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
GE0597 Geological Internships
Hours 3
Field and laboratory projects with government and industry.

GE0598 Non-Thesis Research
Hours 1-6
Non-Thesis Research.

GE0599 Thesis Research
Hours 1-12
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in Geology (Geological Sciences). The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

GE0602 Communicating Geology
Hours 3
Evaluate and develop effective scientific communication skills including writing, oral presentations and poster presentations.
Prerequisite(s): None

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.

GE0635 Graduate Seminar
Hours 1
Oral presentations on current geological topics. Offered fall and spring semesters.

GE0636 Graduate Seminar
Hours 1
Oral presentations on current geological topics. Offered fall and spring semesters.

GE0698 Non-Dissertation Res
Hours 1-12
Non-Dissertation Res.

GE0699 Dissertation Research
Hours 1-12
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral (Ph.D.) degree in Geology (Geological Sciences). The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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 Emphraim 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 für den Beruf and Prüfung 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

GN482 Directed Readings
Hours 1-4
Students planning to enroll should confer with the instructor before registration.

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.

GN518 Historical Linguistics
Hours 3
Advanced introduction to various levels of historical language change. Variety of language used for examples.

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.

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

GR101 Beginning Greek I  
FL, HU  
Hours 3  
In this course students will learn the fundamentals of Ancient Greek grammar and syntax as well as enough vocabulary to be able to comprehend and translate simple Greek prose. Overall, this course addresses the ability to deal with questions of values, ethics, and aesthetics as they are represented in literature and related fields within 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.  
Prerequisite(s): None  
Foreign Language, Humanities

GR102 Beginning Greek II  
FL, HU  
Hours 3  
In this course students continue building on their knowledge of the language and advance in the fundamentals in Greek grammar and syntax, while they expand their vocabulary and hone their ability to translate extensive passages of Greek prose. This course offers a deeper understanding of ancient Greek culture and overall addresses the ability to deal with questions of values, ethics, and aesthetics as they are represented in literature and related fields within 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.  
Prerequisite(s): A grade of at least C in GR 101 is required for admission in GR 102. Transfer students should consult with the professor before classes start or on the first day of class.  
Foreign Language, Humanities

GR201 Intermediate Greek I  
Hours 3  
An introduction to and practice in reading Greek literature, particularly Koine Greek and the New Testament.

GR202 Intermediate 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.

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  
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.

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
N
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
N
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
SB
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

GY202 The Water Planet
N
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
N
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

GY265 Water, Energy, and Food
Hours 3
The primary objective of this course is to introduce students to the essential characteristics and basic processes of inquiry and analysis in the area of the water-energy-food (WEF) nexus. Specifically, the WEF nexus will be considered in relation and its application to human concerns, such as emerging supply and demand issues and their impacts of social and economic systems, ecological health, and human well-being. This course will encourage the development of critical thinking skills and requires students to analyze, synthesize, and evaluate knowledge about core WEF concepts.

GY267 Political Ecology
Hours 3
Political ecology is a multidisciplinary approach to studying the environment through interrogating how power shapes and intersects with human-environment relationships. As a field of inquiry and practice, political ecology has greatly expanded over the past several decades to not just understand the political foundations of environmental problems or challenges, but also the co-production of environments with close attention to matters of justice, power, and inequality. Political ecology contends that through critical analysis and interdisciplinary methodologies, we can come to better understand the roots of socio-environmental problems in order to work for political change and social good.

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
GY310 Geography of America's Public Lands
Hours 3
This course is devoted to the topic of the management of the public domain of the United States. It will examine how the public domain came to be, how it has been disposed through the centuries by homesteading, and how remaining public lands are managed by different government agencies for mining, grazing, tourism, defense, or water storage and energy production. The focus will be on western states but public holdings in eastern states, oceans, and the electromagnetic spectrum will be covered.

GY317 Natural Hazards
W
Hours 3
Examination of the causes, consequences, and spatial distribution of climatic, geomorphic, and human-induced natural hazards. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): GY 101 or GY 102

GY330 Computr 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

GY339 Natural Resource Environm Plang
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 Us AndCanada
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.

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 Develop & Location
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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.
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): GY 101

Writing
GY420 Remote Sensing I

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

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

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

Computer Science

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

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

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

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

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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.

GY443 Location Science

Hours 3

This course presents the theory and practice of Location Science – the study of the optimal or near optimal spatial location and allocation of facilities, routes, personnel, or other assets. A variety of optimal procedures for location problems is presented, including minimum spanning tree, shortest path, maximal flow, and transportation problem algorithms. The Simplex method as applied to location problems is outlined and demonstrated. Heuristic approaches to location problems including greedy heuristics and Tabu search heuristics are reviewed.
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 insure continual long-term productivity and stability. Microeconomics is an important and recurring theme.
Prerequisite(s): GY 105 or GY 110 or instructor permission

GY449 Field Studies in Europe: Ireland
Hours 6
Ireland with its long history of occupation, colonization, invasion, emigration and immigration, together with its diverse geology, geomorphology, culture, history and heritage is an ideal location to study the intricacies of human-earth relationships in a dynamic modern setting. Located on the western most edge of Europe, and a member of the European Union, Ireland welcomes over 11 million visitors each year and during the last decades has evolved into a forward-thinking center of globalism and multiculturalism. This course is designed to immerse each student in all things Irish, past and present, and through readings, field visits, excursions and exposure to the Irish people and culture develop an understanding of the complexity, interdisciplinarity and global interconnections that exist in Ireland and throughout our global community. This is a unique opportunity for students to experience the real Ireland.

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 to 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

GY451 Global Environmental Change
Hours 3
Global Environmental Change focuses on the major issues of global change, including anthropogenic climate change, land use and land cover change, biodiversity issues, environmental pollution, potential global change-related impacts on human health, and relevant social policies. The class will follow a quasi-seminar format where individual presentations and group discussion will comprise a large portion of the in-class activity. Each week students will do research on and/or read assigned articles and additional articles of your own selection on relevant subjects. I will provide a summary of the weekly topic and as a class we will discuss issues raised in the research and readings.
Prerequisite(s): GY 101 or 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): GY 110

Writing

GY454 Costa Rica Field Studies: Tropical Ecology, Conservation, and Development
Hours 4
This program with provide students with a broad interdisciplinary experience encompassing tropical ecology, conservation and development (TECD) in a highly experiential learning context.

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.

GY457 Environmental Entrepreneurship
Hours 3
Interested in starting a nonprofit? Working with or leading one? In this course students will create their own nonprofit organization from conception to incorporation. Build on an existing idea or start a new organization around students’ goals and passion. Learn what it takes to run an organization by building one from the ground up, including business planning, legal structures, board development, and incorporation process. Classes will be structured around brief lectures, reading quizzes, class discussions, maker space project development, and presentations.
GY458 Urban Planning And Analysis
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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

GY462 Land Use Science
Hours 4
This course explores the interactions between land use, land cover, and social and environmental processes at multiple scales. The emphasis is on understanding how the natural landscape influences human activities, how humans modify the natural landscape to meet our needs, and how those modifications create a co-evolution between landscapes and human use. Understanding how land uses are, or should be, allocated to achieve multiple goals, including food and fiber production, space for human settlement, provision of ecosystem services, and access to renewable energy sources, requires consideration of these multiple objectives and of the various factors driving land-use decisions at multiple scales.
Prerequisite(s): GY 105 or GY 110

GY464 Seminar in Contemporary Conservation Politics
Hours 3
In this reading intensive and discussion based course, students will engage with a variety of contemporary texts that grapple with pertinent questions about the meaning of conservation in our contemporary moment, one which many have labelled the Anthropocene. The seminar will introduce students to key theoretical concepts related to the Anthropocene and its Anthro-adjacent terms (the Capitalocene, the Plantationocene, etc.), with particular focus on how new ways of understanding human transformation on the planet inform and push us to re-evaluate human relationships with nonhuman species. Students will pay special attention in this course—through a variety of ethnographic, empirical, and more theoretical texts—to reconfigurations and rearticulations of human-wildlife relationships and conservation politics, inclusive of both plant and animal life and human efforts to govern nature on a rapidly changing planet. As we face the rapid and ongoing acceleration of planetary species extinction and anthropogenic climate change, new ways of articulating environmental discourses and nature-society relations are necessary, which students will discuss and debate from a number of vantage points where the ecological meets the social (and thus, political).

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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): GY 102
Writing

GY488 Digital Terrain and Watershed Analysis
Hours 4
This course covers concepts, numerical algorithms, and techniques for digital terrain and watershed analysis. It combines lectures with a substantial practical lab component. The lectures covers spatial representation of topography, topographical data acquisition techniques (Photogrammetric Stereo, InSAR, LiDAR, GPS, cartography), terrain visualization, terrain parameter derivation, extraction of critical terrain features, landform recognition and classification, viewed data analysis, cut-and-fill and volumetric analysis, drainage network extraction, watershed delineation, and distributed watershed models. The practical component, involving 8 lab assignments and one individual mini-project, will give students hands-on experience in using proprietary GIS software packages, ArcGIS, EPA BASINS 4.0 and HSPF 12.0 to handle topographic and image data for terrain and watershed analysis.
Prerequisite(s): GY 430

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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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

GY496 Forest Ecosystem Management: Silviculture
W
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): GY 489 or GY 409 or GY 492 or GY 494 or instructor permission
Writing
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.

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 correlates 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.

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.

GY543 Location Science
Hours 3
This course presents the theory and practice of Location Science – the study of the optimal or near optimal spatial location and allocation of facilities, routes, personnel, or other assets. A variety of optimal procedures for location problems is presented, including minimum spanning tree, shortest path, maximal flow, and transportation problem algorithms. The Simplex method as applied to location problems is outlined and demonstrated. Heuristic approaches to location problems including greedy heuristics and Tabu search heuristics are reviewed. The peer-reviewed literature in location science is explored.

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.

GY551 Global Environmental Change
Hours 3
Global Environmental Change focuses on the major issues of global change, including anthropogenic climate change, land use and land cover change, biodiversity issues, environmental pollution, potential global change-related impacts on human health, and relevant social policies. The class will follow a quasi-seminar format where individual presentations and group discussion will comprise a large portion of the in-class activity. Each week students will do research on and/or read assigned articles and additional articles of your own selection on relevant subjects. Instructor will provide a summary of the weekly topic and as a class, students will discuss issues raised in the research and readings.

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.
GY562 Land Use Science
Hours 4
This course explores the interactions between land use, land cover, and social and environmental processes at multiple scales. The emphasis is on understanding how the natural landscape influences human activities, how humans modify the natural landscape to meet our needs, and how those modifications create a co-evolution between landscapes and human use. Understanding how land uses are, or should be, allocated to achieve multiple goals, including food and fiber production, space for human settlement, provision of ecosystem services, and access to renewable energy sources, requires consideration of these multiple objectives and of the various factors driving land-use decisions at multiple scales.

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.

GY579 Planning Internship
Hours 3-6
Individual work experience in planning supervised by the staff of an off-campus planning agency.

GY581 Water Diplomacy
Hours 3
The course will focus on the linkages between water resources policy and conflict or cooperation with primary interest on interstate (transboundary) and intrastate water issues. The conceptual framework of the course is centered on water scarcity, water conflict, hydropolicy, hydrohegemony, water security, and dispute resolution. The role of disparate stakeholders and the problem of scale will be considered. The policy, norms and laws for mediating water conflict at different jurisdictional levels, including adversarial legalism (lawsuits) are examined.

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.
GY588 Digital Terrain and Watershed Analysis
Hours 4
This course covers concepts, numerical algorithms, and techniques for digital terrain and watershed analysis. It combines lectures with a substantial practical lab component. The lectures cover spatial representation of topography, topographical data acquisition techniques (Photogrammetric Stereo, InSAR, LiDAR, GPS, cartography), terrain visualization, terrain parameter derivation, extraction of critical terrain features, landform recognition and classification, viewshed analysis, cut-and-fill and volumetric analysis, drainage network extraction, watershed delineation, and distributed watershed models. The practical component, involving 8 lab assignments and one individual mini-project, will give students hands-on experience in using proprietary GIS software packages, ArcGIS, EPA BASINS 4.0 and HSPF 12.0 to handle topographic and image data for terrain and watershed analysis.
Prerequisite(s): GY430 or equivalent or GY 530

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
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in Geography. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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 discussion 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.

GY615 Seminar Human-Environmental Interactions
Hours 3
This is a reading and discussion intensive graduate seminar course. Each week, students will be expected to come to class prepared to critically discuss the readings and other assignments. A diversity of topics will be covered in human-environmental interactions in geography and some additional reading may be necessary for students to be fully prepared to engage in class discussion. Seminar time will be devoted to discussion of topics selected by individual students and the instructor. Throughout the semester there will be discussion of the philosophy of science, the rubrics of scientific evaluation, the publication process, and other topics to aide in student training as a research scientist.

GY630 Seminar in Geographic Information Science
Hours 3
Geographic Information Sciences (GIScI) include a range of spatial technologies, including Geographic Information Systems, remote sensing, computer modeling, GPS, and cartography. This seminar will examine contemporary issues in GIScI through readings and group discussion.
GY663 Seminar in Geomorphology
Hours 3
Geomorphology is the study of earth surface processes and landforms, including quantitative analyses of how and why landscapes change over space and time. In this seminar students will examine how and why geomorphic systems function and change in response to climatic and tectonic forcing and human activities through readings and group discussions.

GY699 Dissertation Research in Geography
Hours 1-12
This independent research course partially fulfills required doctoral level research dissertation hours toward the Ph.D. in Geography. A total of 24 dissertation hours are required. The course is conducted under the guidance of the Ph.D. advisor. The student repeats hours in this course at least until the dissertation requirements have been satisfactorily completed. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology with the aim of producing an original scientific contribution that represents a novel development in the field or a novel twist on a pre-existing topic in the field.
Prerequisite(s): You must be a PhD student in Geography that has defended a dissertation proposal and successfully completed requirements for Ph.D. candidacy.

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. Not repeatable without permission of the CLC director. Offered each semester. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.
Prerequisite(s): None
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 the CLC director. Offered each semester. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.
Prerequisite(s): HEB 101
Foreign Language

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. Offered each semester. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

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 and Medicine to 1800
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 and Medicine Since 1800
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

HY201 Legal History Field Experience

Hours 1

A required component of the larger Legal History concentration. Registered students will meet with the professor individually three times during the term, will be required to attend three pre-approved legal-themed events, and will complete brief reflection essays about their experiences at these events. Requires instructor approval to register.

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.

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.

HY302 History Mentoring

Hours 1

Students learn the mechanics of teaching History writing, editing, and instruction. Under the supervision of a faculty member, they learn the pedagogy of writing and then practice their craft by working with other students. Requires a recommendation from a professor to participate.

Prerequisite(s): Recommendation from a History professor.

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.

HY309 The Great Cases in US Legal History

Hours 3

This course surveys key developments in US legal history from the colonial period to present day.

HY311 Antebellum America

Hours 3

Students will explore the antebellum period as an era of great change in the United State. Between 1820 and 1860, we witness the rise of the “city” and expanding frontiers. Antebellum America, 1846-1861 examines the divisive political, social, and economic forces which intensified in the 1840s and culminated in the Civil War. Through a study of the primary and secondary literature of American history this course surveys the individuals and groups who influenced the American experience, as well as the cultural, political, and socio-economic movements that shaped the nation.
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 American Civil War and Reconstruction continue to attract great scholarly and popular attention. This course takes a chronological and thematic approach to discuss the war’s complex meaning to past and present Americans. Through readings, lectures, class discussions and movies, students will explore traditional military and political aspects of the era, causes and consequences of the crisis, as well as racial, social, gender and cultural dimensions.

HY316 Life & Legend Abraham Lincoln  
Hours 3  
The life and legend of the man often considered to be the representative American.

HY317 America at War 1916-2016  
Hours 3  
This course examines the ways in which Americans have organized and used armed force in the last 100 years, and the models that historians have used to understand and explain those actions. The central theme involves how Americans have addressed the security issues they faced and how they have both succeeded and failed to achieve stable political solutions they called “peace,” across the spectrum from the conventional to the unconventional. The format will be largely lecture-based, accompanied by images of people and events.

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.

HY322 The United States in the Age of Franklin Roosevelt  
Hours 3  
The Great Depression and the Second World War were crucial in shaping the American political, social, economic and cultural landscape for decades, and continue to impact our lives today. Much of the era coincided with the presidency of Franklin Roosevelt, who was elected to an unprecedented four terms as president, and actually served in that office for thirteen years. The Age of Roosevelt class will explore the problems that faced the United States in the thirties and forties, the solutions that generation tried in order to solve their problems, and the impact of policy on the inhabitants of the United States. The class will aid you in building critical thinking skills, give you a basic introduction to a set of historical literature, and expose you to primary sources from the Depression and the Second World War.

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.

HY327 Women in Early America  
Hours 3  
Examines the history of women in early North America from 1660 to 1877.

HY328 How America Fights: War and Society since 1898  
Hours 3  
This course will engage students in the study of war and American society since 1898. It is not a class about military strategy or foreign policy. Rather, we will survey the radiating impact of armed conflict and military service on individuals, communities, culture, and politics. And in the other direction, we will examine the ways fundamental features of American society (race, gender, class, citizenship, sexual orientation, and so on) influence the country’s military experience. To give shape to such a vast subject, we will organize our inquiry around three questions: How do Americans mobilize for, fight, and remember their wars? Together those dimensions describe a society in the throes of militarization and perhaps militarism and/or anti-militarism. We will explore the difference between these ideas and assess which of them, if any, characterizes the United States in this period. These questions and terms will guide our main effort: to scrutinize the ways America’s experience with armed conflict has reflected and shaped broader truths about society in the past century.
HY329 American Religious History Before 1870
Hours 3
An introduction to American religious history from the first encounters between Native Americans and Europeans through the mid-nineteenth century. The course will explore important religious traditions and consider the connections between religious values and crucial questions in American history.

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?

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 World History
Hours 3
This course provides a general but analytic introduction to the development of contemporary China from 1921, when the Chinese Communist Party (CCP) was founded, to 1949 when the People’s Republic of China (PRC) was founded, and on towards the present, concluding around the year 2000. We will review key historical phenomena that distinguish contemporary China, particularly Marxist and Stalinist theories and their use by the CCP in varying circumstances not only to pursue and carry out political revolution (1921-1949) but also political-economic developments after 1949. Such developments initially involved PRC state formation via agricultural transformation & large-scale Soviet-style industrialization accompanied by bureaucratization, the oppositional anti-bureaucratic thrust that eventually produced the Cultural Revolution (1966-1976), the rebuilding of both the CCP & PRC after Mao’s death in 1976, the “second Communist Revolution” after 1978 associated with Deng Xiaoping, and the places of “intellectuals” in all of this.

HY337 Foodways in American History
Hours 3
The broad goal of this class is to introduce students to the use of food, eating, and the ways in which various societies have met these challenges. Food is a constant in human societies, and yet the ways in which we choose to meet our nutritional needs can vary widely, across both distance and time. We will examine the ways in which Americans, broadly defined as those who live in or adjacent to the current-day United States, have chosen to eat, and some of the many meanings those choices carried.

HY338 History of Contemporary China, 1921-2000
Hours 3
This course provides a general but analytic introduction to the development of contemporary China from 1921, when the Chinese Communist Party (CCP) was founded, to 1949 when the People’s Republic of China (PRC) was founded, and on towards the present, concluding around the year 2000. We will review key historical phenomena that distinguish contemporary China, particularly Marxist and Stalinist theories and their use by the CCP in varying circumstances not only to pursue and carry out political revolution (1921-1949) but also political-economic developments after 1949. Such developments initially involved PRC state formation via agricultural transformation & large-scale Soviet-style industrialization accompanied by bureaucratization, the oppositional anti-bureaucratic thrust that eventually produced the Cultural Revolution (1966-1976), the rebuilding of both the CCP & PRC after Mao’s death in 1976, the “second Communist Revolution” after 1978 associated with Deng Xiaoping, and the places of “intellectuals” in all of this.
HY340 Material Culture in the Early Americas
Hours 3
This course studies human-made objects to learn about the history of the Americas (North, Central, South, and the Caribbean) from 1300 to 1800. Topics studied include gender, race, religion, colonization, work, leisure, and family. Key themes include cultural interactions and the place of objects in the creation of memory.

HY341 Hy US - Vietnam War
Hours 3
Survey of the historical background of the conflict in Indochina leading to U.S. involvement and its consequences.

HY342 US from WWI to WWII
Hours 3
This is a survey of U.S. history from World War I to World War II with an emphasis on the role of politics, popular culture, and economic change.

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?

HY348 The History of Games
Hours 3
The goal of this course is to use games as a primary source, a “window” into portions of the human experience at various times and places, and to incorporate experiential learning by adding gameplay and rule discussion to scholarly readings and class discussion. Students will study a series of specific games and the societies which produced them, focusing on games which involve mastery of rules and chance rather than on contests of physical skill or endurance.

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.

HY351 The First Amendment
Hours 3
This course explores the evolution of the First Amendment throughout American legal history from its creation in the 18th century to the digital age. Major themes will include free speech law, slander and libel law, the “establishment” and “free exercise” clauses, the legal boundaries of public protest, and how these things have changed over time.

HY352 The Right to Privacy
 Hours 3
This course explores the history of the right to privacy in the United States from the Gilded Age to the Digital Age. Major themes include the evolution of privacy law, tabloid journalism, physical surveillance, private property, data collection, sexual privacy, the “privacy vs. security” debate, and the relationship between privacy and technology.

HY355 German History Sc 1740
Hours 3

No description available

HY356 The Holocaust: History and Memory
Hours 3
This class examines the origins and meanings of the “Holocaust” through the emergence of anti-Semitism and scientific racism in the nineteenth century; European nationalism and imperialism and early forms of genocide; the history of Jewish assimilation in Europe; the ramifications of Great War; the rise of Nazism; World War II and the “twisted road to Auschwitz.” The final phase of the course addresses the subject of “coming to terms with the past” in several national contexts.

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.

HY364 Christianity and its Discontents, from Paul to Luther
Hours 3
This course is a history of Christianity from its origins in the Jewish ministry of Jesus of Nazareth and the writings of Paul in the Roman Empire to the outbreak of the Reformation, Protestant and Catholic, in the sixteenth century. It will focus primarily on the story of Christianity in the Mediterranean and Western Europe, in the context of broader historical developments in both the Byzantine and Islamic worlds, with occasional glances as well to wider global contexts. At the center of the course is the question of how Christian belief and practice both reflected and shaped the broader processes of historical change of which it was a part, and how complex and contested questions of doctrine, practice, authority, and interpretation could be throughout this religions first millennium and a half.

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.

HY366 Modern Britain, 1700-2015
Hours 3
This course explores the most important social, economic and political developments in the Britain since the beginning of the eighteenth century. It covers topics including Britain's century-long conflict with France in the 1700s, the rise of industrial society, Victorian ideas and attitudes, British feminism, the rise and fall of the British Empire, the emergence of the Labour Party and British socialism, the impact of the two world wars, and postwar political and social changes.

HY367 Honors Modern Britain, 1700-2015
UH
Hours 3
This course explores the most important social, economic and political developments in the Britain since the beginning of the eighteenth century. It covers topics including Britain's century-long conflict with France in the 1700s, the rise of industrial society, Victorian ideas and attitudes, British feminism, the rise and fall of the British Empire, the emergence of the Labour Party and British socialism, the impact of the two world wars, and postwar political and social changes.

University Honors

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, Kongolesekings, 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.

HY372 The History of Brazil through Film
Hours 3
Home to the largest film and television industry in Latin America, this course examines the racial, cultural, geographical, biological, and linguistic history of Brazil through film.

HY373 Environmental History of the Americas
Hours 3
This course examines the environmental history of the Americas from pre-contact to the modern day, with the aim of understanding the ways in which humans have adapted to and transformed American landscapes, ecologies, and eco-systems. From the last ice age to the modern-day Anthropocene, human societies have profoundly shaped and been shaped by the environment of the Americas.

HY374 Caribbean Pirates in History and Popular Culture
Hours 3
This course will introduce students to the basic history of the rise and fall of Caribbean piracy in the early modern period, paying attention at the international context in which Caribbean piracy first appeared in the 16th century, its impact in European competition for land and resources in the Americas, and its ultimate decline in the 18th century, as European nations banded together against piracy and its threat over colonial possessions and intercolonial and transatlantic trade.

HY377 Mexico since 1810
Hours 3
This course will explore 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.

HY379 History of Modern Argentina
Hours 3
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 sustenance of identity and nationality in Latin America.

HY382 Early Modern Britain
Hours 3
England was transformed during the early modern period. In the sixteenth century, England saw the Reformation, the beginnings of the British Empire, the educational revolution, the rise of humanism, the growth of the state, the last feudal rebellions, and the explosion of urbanization; then, divided by a civil war that pitted monarch against Parliament, seventeenth-century England saw the foundation of institutions and ideas that shape our world to this day. We will study some of the most compelling figures of British history: the insatiable Henry VIII and his brilliant daughter, Elizabeth I; the driven Oliver Cromwell and the ‘merry monarch’ Charles II; writers like Shakespeare, Milton, Margaret Cavendish, and Aphra Behn; explorers Walter Raleigh and Francis Drake; thinkers such as Thomas More, Francis Bacon, Thomas Hobbes, and John Locke; But we will also look at larger social and cultural forces that shaped early modern England, including the rise of literacy, a sharpening economic stratification, new understandings of magic and witchcraft, gender roles, the growth of the common law system, and the politics of migration.

HY383 Honors Early Modern Britain
UH
Hours 3
England was transformed during the early modern period. In the sixteenth century, England saw the Reformation, the beginnings of the British Empire, the educational revolution, the rise of humanism, the growth of the state, the last feudal rebellions, and the explosion of urbanization; then, divided by a civil war that pitted monarch against Parliament, seventeenth-century England saw the foundation of institutions and ideas that shape our world to this day. We will study some of the most compelling figures of British history: the insatiable Henry VIII and his brilliant daughter, Elizabeth I; the driven Oliver Cromwell and the ‘merry monarch’ Charles II; writers like Shakespeare, Milton, Margaret Cavendish, and Aphra Behn; explorers Walter Raleigh and Francis Drake; thinkers such as Thomas More, Francis Bacon, Thomas Hobbes, and John Locke; But we will also look at larger social and cultural forces that shaped early modern England, including the rise of literacy, a sharpening economic stratification, new understandings of magic and witchcraft, gender roles, the growth of the common law system, and the politics of migration.
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 afterlife 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.

HY391 Medieval Britain
Hours 3

Medieval England sounds to us like a time of legend: knights, castles, and chivalry. This course will look beyond the myth to examine the complicated world of medieval politics, society, and culture. Course topics will include religion and devotion; family life; death, disease, and epidemic (including the Black Death); popular politics and rebellion (including the Peasants Revolt); feudalism and feudal culture; Magna Carta and the creation of Parliament's conflict with France; crusades; Wars of the Roses; and the crisis of monarchy. In sum, we will focus on medieval British history from Alfred the Great to the dawn of the Tudors (c. 850-c.1485). We will talk about Chaucer and Richard III and Eleanor of Aquitaine—but we will also discuss everyday life in medieval England. At its core, this course will investigate a period of history that is central to enduring institutions and long-lasting myths alike.

HY392 Honors Medieval Britain
UH

Hours 3

This course will look beyond the myths of knights and roundtables to examine the complicated world of medieval politics, society, and culture. Course topics will include religion and devotion; family life; death, disease, and epidemic; popular politics and rebellion; feudalism and feudal culture; Magna Carta and the creation of Parliament's conflict with France; crusades; Wars of the Roses; and the crisis of monarchy.

University Honors

HY399 History Honors Colloquium
UH

Hours 3

Focuses on the discipline of history itself. Will examine some of the fundamental questions about what history is and why the study of history matters. Subject matter varies by term.

University Honors

HY400 Special Studies in History
W

Hours 1-6

Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. May be repeated for a maximum of 18 hours.

Writing

HY404 Modern China since 1600
Hours 3

Survey of Chinese history in the Ch'ing Dynasty and the 20th century with emphasis on 19th- and 20th-century events.

HY405 Topics in European History
W

Hours 3

This course covers a range of special topics in European 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 medieval, early-modern, and modern European civilization. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY406 Topics in American History
W

Hours 3

This course covers a range of special topics in American 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 American history. 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
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.

HY414 Morality and Social Change in American History
W
Hours 3
This course examines the moral frameworks that Americans have used to understand—and to change—their society. Focusing on the major movements for social change that have shaped American society, this course will investigate the way that Americans thought about issues such as slavery, animal cruelty, sex, family roles, labor, economics, war and citizenship, and civil rights. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

HY415 Sinners and Saints in American History
W
Hours 3
This course studies the historical gap between Americans’ behavior and their moral and spiritual aspirations for themselves. How did this gap shape how Americans understood—or challenged—their society? What did it mean to be a good or bad person? What counted as sin at particular points in time? Why did Americans care about some kinds of wrongdoing more than about others? Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

HY418 Slavery, Freedom, and Authority
W
Hours 3
American freedom took shape amid slavery. This course traces the interconnected histories of slavery, family life, politics, and American thought to help better understand the evolution of Americans’ ideas about freedom, independence, and authority. This course explores the role of concepts—and institutions—of freedom and slavery, dependence and independence, and autonomy and authority in shaping American thought, values, and institutions from the seventeenth to twentieth centuries. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

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.
HY426 History of Strategic Intelligence
W
Hours 3
This course will evaluate the historical importance of strategic intelligence. It will also examine the extent to which world leaders have utilized or ignored intelligence in shaping diplomatic and military policy. Various uses of intelligence—collecting information, analysis, counterintelligence, and secret operations—will be explored with an emphasis on the period from the American Revolution to the modern era. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY439 Foundations in Public History
W

Hours 3
In this course, you will absorb readings, participate in discussions, and undertake hands-on work that will begin your engagement with the field of public history. By the end of the course, you will be familiar with major debates that engage public historians; the professional workplaces of public historians; new directions in the field; and the ways in which we accomplish our goal of working in partnership with stakeholders to make the past accessible to public audiences. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY441 Theory and Practice of Oral History
W

Hours 3
The purposes of this course are twofold: to expose students to the theory, major conceptual themes, and methodologies that oral historians use to frame and implement their work, and to hone skills as an oral history practitioner. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY446 Age of Reason 1715-89
W

Hours 3
This course examines the history of Enlightenment Europe from the seventeenth to the nineteenth centuries. We study Locke, Rousseau, Kant, Adam Smith, and Voltaire— as well as Catherine the Great, Benjamin Franklin, and Thomas Jefferson. Topics covered will include popular resistance and protest; the influence of science and rationality; the role of women in the Enlightenment; absolutism and liberty; and the life of the mind. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing
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.

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 century 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.” Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Written assignments will require coherent, logical, and carefully edited prose. Students will be required to demonstrate higher-level critical thinking skills.

Writing

HY457 The Russian Revolution, 1790-1945
W
Hours 3
This course covers Russia's revolutionary history from Peter the Great to Stalin. We examine the Russian autocratic system that planted the seeds of revolution, the early thinkers who sought moderate solutions, and the turn to radicalism that lead to the Russian Revolution. We examine the role of the Enlightenment in shaping Russia's future and the causes and consequences of the Russian Revolution in world history. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY460 The Warren Court
W
Hours 3
Spanning 1953-1969, the Warren Court handed down numerous landmark decisions on crucial social and political issues such as civil rights, free speech, the rights of the accused, police powers, reproductive rights, professional sports monopolies, and the right to privacy. This course examines the legal history of the Warren Court and its decisions from Brown v. Board of Education (1954) through Brandenburg v. Ohio (1969). Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY461 Great Cases in the History of Slavery
W
Hours 3
This course examines the legal history of slavery through the statutes and court cases that shaped its development in Europe's American empires. Comparing and contrasting practices in British, Spanish, French, and Portuguese contexts, it will focus both on the ways that enslavement was imposed on people of Native American and African descent, and on the ways that enslaved individuals used legal systems to challenge their bonded status, and in the institution of slavery itself. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY462 Great Cases in Modern French Legal History
W
Hours 3
This course examines important legal cases in 19th and 20th century France. Students will participate in a weekly 2.5 hour seminar where they will read and discuss assigned materials. Students will complete weekly writing assignments and present on a case of their choosing at the end of the semester. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY472 Latin American Seminar
W
Hours 3
This course examines the question of what defines Latin America, the Caribbean, and Latinx communities; how that formulation has developed over time; and what exactly is meant now and historically by “Latin American, Caribbean, and Latinx Studies.” Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
HY473 Indians, Nuns, and Rogues: Cities in Colonial Latin America
W
Hours 3
This course explores the features that defined the Spanish world during this period by focusing on the most significant urban spaces in the Spanish world and their citizens. We will learn about larger demographic, social, cultural, and environmental issues that affected, and sometimes defined, the Spanish empire as a whole. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY474 Relation US Latin Amer
W
Hours 3
Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY477 Imperial Spain's "Golden Age"
W
Hours 3
This course provides a view of the politics, society, and culture of the Spanish empire from 1450 to 1700. It examines Spain's rise and fall as a global power and its "Golden Age", a time of high accomplishments by artists, writers, and playwrights. It traces the history of Iberian society in the western Mediterranean, the roots of the Spanish empire, its impact on Europe, and the Americas. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HY483 Thirty Years' War
W
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. This is also a Writing (W) designated course. This means that the ability to write coherent, logical, and carefully edited prose is one of the conditions for passing the course. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

Hy495 Honors Britain in the Victorian Age
UH, W
Hours 3
In 1815, the Pax Britannica that concluded the Napoleonic wars enabled the most prosperous and powerful century in the history of Britain. This class will examine the industrial revolution and colonial Britain, the life of Queen Victoria, the rise of class conflict, the Luddites, the Chartists, the New Model Unionists, and the agricultural laborers’ union, the new Labour party, and the move towards The Great War. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

University Honors, 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. In order to complete the course, two professors other than the professor of record must read and approve the final thesis.

Prerequisite(s): HY498 OR HY430

University Honors, Writing

Hy500 Special Studies in History
Hours 3-6
No description available

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.

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.

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
This course examines major historical scholarship of European Literature.
HY605 Lit Latin Amercn History
Hours 4
This course examines major historical scholarship of Latin American History.

HY606 Prosem Us Histry 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 proseminar introduces students to important historiographical debates in the History of the American South. Chronical boundaries of the course vary by instructor.

HY631 Early Mod Brit Eur Hy
Hours 4
Course examines major historical scholarship of early modern British European history.

HY635 Recent Brit Eur History
Hours 4
No description available

HY639 Prosem Military/Naval Hy
Hours 4
No description available

HY651 Sem Us History To 1877
Hours 4
No description available

HY665 Special Studies
Hours 4
A special topic seminar; the seminar work varies each time offered. Students primarily work independently on selected projects; however, they work closely with the course instructor. Students will share their research with their colleagues and engage in peer critique throughout the semester.

HY680 Grad Research Seminar
Hours 4
This course will offer students the opportunity to do original research in primary sources for the purpose of completing an article-length piece of original scholarship. In addition to working intensively (in conjunction with the instructor) on all stages of their individual seminar paper projects, students will examine the skills and methods necessary to conduct research, discuss matters of common concern in the research and writing processes, share the results of their research with their colleagues, and engage in peer-critique of each other's work. Our group conversations will not only be designed to aid individual students in the production of their seminar papers, but also will continually focus on the historians' craft, the challenges historians face in carrying out our work, and the methods we deploy to address those challenges.

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

IDMD100 Convocation
Hours 1
The McCollough Scholars cohort gathers to converse with speakers on various aspects of the medical profession.
Prerequisite(s): Membership in the McCollough Pre-Medical Scholars Program

IDMD101 Medical Foundations I
HU, UH
Hours 3
The practice of medicine is as old as civilization. This course studies fundamental questions about the shifting conceptions of health and disease, and how that affects our conception of physicians, remedies, mental sickness, and societal responses to sickness. The course will address these questions from an interdisciplinary perspective drawing on key texts from a wide variety of perspectives. The course is divided into three sections: history & philosophy of medicine, medicine & society, and medicine & culture.
Prerequisite(s): IDMD 100
Humanities, University Honors
IDMD102 Medical Foundations II
SB, UH
Hours 3
The practice of medicine is as old as civilization. This course deals primarily with study of human behavior in the context of medicine and the social and cultural aspects of medical practice. The course addresses large scale questions about the psychological and sociological factors that affect medical judgement, the complex interplay between culture, race, and medicine; and the multifaceted personal, interpersonal, and organizational questions relating to aging and death.
Prerequisite(s): IDMD 100 & IDMD 101
Social and Behavioral Sciences, University Honors

IDMD400 Senior Convocation
Hours 1
Senior McCollough Scholars gathers to converse with speakers on various aspects of the medical profession.
Prerequisite(s): IDMD 100, IDMD 101, and IDMD 102

IDMD401 Capstone Seminar
Hours 3
The Capstone Seminar is an intensive study of an aspect of the medical profession followed by a presentation of McCollough Scholars’ senior projects. The topics will vary depending on the professor’s area of expertise.
Prerequisite(s): IDMD 100, IDMD 101, and IDMD 102

IT101 Introductory Italian I
FL, HU
Hours 4
This course is the first semester of college-level study in Italian. Emphasis is placed on the development of oral proficiency and listening skills, reading comprehension, writing skills, analysis of grammatical structures, and an understanding of Italian culture and society.
Foreign Language, Humanities

IT102 Introductory Italian II
FL, HU
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 or IT 105 with a grade of C- or instructor permission
Foreign Language, Humanities

IT105 Honors Introductory Italian I
FL, HU, UH
Hours 4
This course is the first semester of college-level study in Italian. Emphasis is placed on the development of oral proficiency and listening skills, reading comprehension, writing skills, analysis of grammatical structures, and an understanding of Italian culture and society.
Foreign Language, Humanities, University Honors

IT201 Intermediate Italian I
HU
Hours 3
Through the study of language (reading, writing, listening and speaking), in this course students will develop a new perspective on Italian culture, values, and civilization. Class discussions will center especially on the cultural, historical, and social fabric of Italy, and the values and ethics of language learning and cultural exchange. Students will also hone their ability to evaluate cultural products at an aesthetic level; alongside film clips, artistic masterpieces, musical compositions, and journalistic essays, among other forms, students will read and evaluate a work of contemporary prose fiction.
Prerequisite(s): IT 102 with a grade of C- or higher or instructor permission
Humanities

IT202 Intermediate Italian II
HU
Hours 3
Through the study of language (reading, writing, listening and speaking), in this course students will develop a new perspective on Italian culture, values, and civilization. Class discussions will center especially on the cultural, historical, and social fabric of Italy, and the values and ethics of language learning and cultural exchange. Students will also hone their ability to evaluate cultural products at an aesthetic level; alongside film clips, artistic masterpieces, musical compositions, and journalistic essays, among other forms, students will read and evaluate a work of contemporary prose fiction, Gianni Rodari's Favole al telefono.
Prerequisite(s): IT 201 with a grade of C- or instructor permission
Humanities

IT323 Introduction to Italian Cinema
W
Hours 3
This course provides a chronological overview of the history of Italian cinema from WW2 to the present. We will survey the major Italian film movements, including Neorealism, commedia all'italiana, and the Spaghetti Western, as well as the work of key filmmakers of the period. Through the analysis of cinematic tools and techniques, and the study of the historical and geo-political contexts of the films in the course, students will refine their skills in critical thinking and film analysis, while learning more about Italian culture and history. The course is in English and the films shown are in Italian with English subtitles. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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  
L  
Hours 3  
This course traces Italian literature and thought from its origins to early modernity (13th-17th 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 composition of Dante’s Inferno to 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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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.

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

KOR101 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 (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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.
Foreign Language
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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

Prerequisite(s): KOR 201

LA101 Elementary Latin I

**FL, HU**

Hours 3

This is the first in a two-course sequence that will introduce the student to the fundamentals of Latin syntax and grammar, Roman thought and culture, and offer significant reading and translating practice. This course presumes that the student has little to no experience with the Latin language. The goal is to learn Latin not just for its own sake but as a means to gain insight into how the Romans lived and thought. Additionally, students will examine the following throughout the course: the influence of the Latin language and Roman authors throughout literature into the Middle Ages and Renaissance, English derivatives of Latin vocabulary, foundational grammar in romance languages, and modern uses in literature, religion, philosophy, law, and science.

Prerequisite(s): LA 101

Foreign Language, Humanities

LA102 Elementary Latin II

**FL, HU**

Hours 3

This is the second in a two-course sequence that will introduce the student to the fundamentals of Latin syntax and grammar, Roman thought and culture, and offer significant reading and translating practice. This course presumes that students will only have the experience gained in LA 101 with the Latin language. The goal is to learn Latin not just for its own sake but as a means to gain insight into how the Romans lived and thought. Additionally, students will examine the following throughout the course: the influence of the Latin language and Roman authors throughout literature into the Middle Ages and Renaissance, English derivatives of Latin vocabulary, foundational grammar in romance languages, and modern uses in literature, religion, philosophy, law, and science.

Prerequisite(s): LA 101

Foreign Language, Humanities

LA201 Intermed Latin Read I

**HU**

Hours 3

Selected readings from Latin literature. Offered in the spring semester.

Prerequisite(s): LA 201

Humanities

LA202 Intermed Latin Read II

**HU**

Hours 3

Selected readings from Latin literature. Offered in the spring semester.

Prerequisite(s): LA 201 or equivalent (usually at least 3 years of high school Latin with an average of B or better).

Humanities

LA301 Survey Lit Roman Republ

Hours 3

Readings in Latin literature to the time of Julius Caesar. Offered in the fall semester.

Humanities

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

LA590 Adv Readings Latin Literature
Hours 3-6
No description available.

LAS401 Introduction to Latin American, Caribbean, and Latinx Studies
W
Hours 3
An interdisciplinary introduction to the field of Latin American, Caribbean, and Latinx Studies and the capstone seminar to the LACLS minor. Students will develop significant research projects on varied topics. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

MATH005 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).
Prerequisite(s): UA Math Placement Test Score of 190-309 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

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): C- or higher in MATH 113 and C- or higher in MATH 112; or C- or higher in 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, parametric equations, polar coordinates, conic sections and infinite series.

Prerequisite(s): C- or higher in MATH 125 or C- or higher in MATH 145

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. 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'Hopital'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

This course is the first of a three-course sequence designed to develop deeper understanding of elementary school mathematics content needed for teaching. The course topics include whole numbers and integers, fractions, ratio, percent, decimals and arithmetic operations within these systems. The goal of the course is to develop conceptual understanding (instead of just procedural understanding) of the number systems and operations by focusing on basic concepts and principles, exploring multiple representations and strategies, and illuminating connections among concepts and procedures. The content knowledge needed for teaching will be reinforced by engaging in inquiry-based activities, analyzing children's ways of thinking, focusing on explanation and communication of underlying mathematical principles when solving problems, and using appropriate manipulative and technology.

Prerequisite(s): C- or higher in MATH 100 or C- or higher in MATH 112 or C- or higher in MATH 113 or C- or higher in MATH 125 or ACT Math Subscore of 22 or new SAT Math Subscore of 540

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): C- or higher in MATH 208

MATH210 Data Analysis for Elementary Teachers

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 related to elementary school teaching is integrated throughout the course.

Prerequisite(s): C- or higher in 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): C- or higher in MATH 146 or C- or higher in MATH 126
Mathematics

MATH237 Introduction to Linear Algebra
C
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): C- or higher in MATH 126 or C- or higher in MATH 146
Computer Science

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): C- or higher in MATH 126 or C- or higher in MATH 146
Computer Science, Mathematics

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): A grade of B- or higher in MATH 126 or MATH 146 or a score of 4 or 5 on AP Calculus BC exam.
Mathematics, University Honors

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): MATH 125 or MATH 145
Writing

MATH343 Appl Diff Equations II
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): C- or higher in 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): C- or higher in MATH 227 or C- or higher in 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): C- or higher in MATH 237 and C- or higher in MATH 301
**MATH403 Algebraic Structures for Secondary Teachers**  
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): C- or higher in MATH 237 and C- or higher in 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 Secondary Teachers**  
Hours 3  
This course will give an overview of geometry from a modern point of view. Axiomatic, analytic, transformational, and algebraic approaches to geometry will be used. The relationship between Euclidean geometry, the geometry of complex numbers, and trigonometry will be emphasized.  
Prerequisite(s): C- or higher in MATH 403

**MATH409 Data Analysis for Secondary Teachers**  
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): C- or higher in MATH 125 and C- or higher in MATH 355

**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): C- or higher in MATH 237 and C- or higher in MATH 301

**MATH411 Numerical Analysis I**  
Hours 3  
Credit will not be granted for both MATH 411 and MATH 300. An 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): C- or higher in MATH 237 and C- or higher in MATH 238 and C- or higher in (CS 100 or CS 110 or CS 322 or AEM 249 or MIS 221 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): C- or higher in MATH 343 and C- or higher in MATH 411

**MATH420 Linear Optimization Theory**  
Hours 3  
This course is an introduction to theory of linear programming (focused on development of theory and algorithms with only a limited coverage of examples and applications), a basic component of optimization theory. 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 227 or MATH 247) and MATH 237 and (CS 100 or CS 110 or CS 322 or AEM 249 or ECE 285 or MIS 221 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): C- or higher in MATH 237 and C- or higher in (MATH 227 or MATH 247) and C- or higher in (CS 100 or CS 110 or CS 322 or AEM 249 or ECE 285 or MIS 221 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)

**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(s): C- or higher in MATH 343
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): C- or higher in MATH 237 and C- or higher in 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): C- or higher in 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): C- or higher in 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): C- or higher in MATH 301 and C- or higher in MATH 371

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): C- or higher in 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): C- or higher in MATH 227 or C- or higher in MATH 247

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): C- or higher in 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): C- or higher in 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.

MATH503 Algebraic Structures for Secondary Teachers  
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): C- or higher in MATH 237 and C- or higher in MATH 301

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 Secondary Teachers  
Hours 3  
This course will give an overview of geometry from a modern point of view. Axiomatic, analytic, transformational, and algebraic approaches to geometry will be used. The relationship between Euclidean geometry, the geometry of complex numbers, and trigonometry will be emphasized.  
Prerequisite(s): C- in MATH 403 or C- in MATH 503

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 Data Analysis for Secondary Teachers  
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): C- or higher in MATH 125 and C- or higher in 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 371 or MATH 572

MATH511 Numerical Analysis I  
Hours 3  
Mathematical principles of numerical analysis and their application to the study of certain methods. Topics include 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, CS 110, 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 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 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 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.

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): MATH 343 and MATH 486 or MATH 586.

MATH551 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. Usually offered in the Fall semester.

MATH552 Math Stats W/Applictn II  
Hours 3  
This course considers 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. Note: Credit for this course will not be counted toward an advanced degree in mathematics.  
Prerequisite(s): MATH 551
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 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 queuing 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 queuing 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, continuous 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
Designed for graduate students who did not major in mathematics. A first course in abstract algebra. Topics include groups, permutations groups, Cayley's theorem, finite Abelian groups, isomorphism theorems and Lagrange's theorem. Usually offered in the spring semester. Credit for this course will not be counted toward an advanced degree in mathematics.
Prerequisite(s): (MATH 237 and MATH 301) or MATH 371 or MATH 572

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

MATH572 Linear Algebra
Hours 3
Vector spaces; linear transformations and matrices; determinants; systems of linear equations and Gaussian elimination; eigenvalues, eigenvectors and diagonalization; generalized eigenvectors and Jordan decomposition; minimal polynomials, Cayley-Hamilton theorem; Inner product spaces.
Prerequisite(s): MATH 237

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.
Prerequisite(s): MATH 570

MATH580 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 587

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 or MATH 247

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
Preparation for future mathematics faculty for the teaching component of a faculty position at community colleges, four-year colleges or universities, comprehensive universities, or research universities. Topics include active learning strategies and course development, including syllabi, textbook selection, and assessment strategies.

MATH593 Collegiate Math Education Rsnc
Hours 3
This course is designed to enable students to understand and synthesize current research in college mathematics education involving subjects usually taught during the first two years of college. This will include a survey of a range of educational research models and will discuss qualitative, quantitative, and mixed methods research design in mathematics education research.

MATH598 Non-Thesis Research
Hours 1-3
Research not related to thesis.

MATH599 Thesis Research
Hours 1-6
No description available

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 second 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.
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.

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

We will cover various topics in Complex Analysis. Some possible topics include: Riemann mapping theorem, conformal mapping, normal families, Zalman's lemma, Picard's theorem, Bloch's theorem, the monodromy theorem, elliptic functions, ultrahyperbolic metrics, harmonic measure, Hardy spaces, special functions.
Prerequisite(s): MATH 583

MATH686 Functional Analysis I  
Hours 3

Prerequisite(s): MATH 681 and (MATH 583 or MATH 585)

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 theorem, the Fredholm alternative, existence and regularity for elliptic and parabolic equations).
Prerequisite(s): MATH 681

MDGR101 Elementary Modern Greek  
FL, HU  
Hours 3

Introduction to Modern Greek language & culture.
Foreign Language, Humanities

MDGR102 Elementary Modern Greek  
FL, HU  
Hours 3

Contemporary modern Greek speaking, reading and writing.
Prerequisite(s): MDGR 101 with a minimum grade of C-
Foreign Language, Humanities

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 with a minimum grade of C-

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): Students should have successfully completed MDGR 201 or equivalent and received a minimum grade of C-

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 protostomes. 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.
MS548 Intro To Oceanography
Hours 4
A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and the relationship of these processes to biological systems.

MUA010 Music Convocation
Hours 0
Music Convocation.

MUA0100 Class Voice Beginning
Hours 1
No description available

MUA119 Studio Ensemble
Hours 0-1
Studio ensemble is a lab ensemble. The group will rehearse and perform in the Bryant Jordan Recording Studio. The format will be a recording session. Each rehearsal will have a new piece that the students must learn and record within the constraints of a standard time-sensitive recording session, à la film score, jingle, CD backing musician, etc.

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

MUA127 Horn Choir
Hours 1
Applied ensemble for horn students at the undergraduate level.

MUA128 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA131 Piano (Non-Majors)
Hours 0.5-1
No description available

MUA132 Organ (Non-Majors)
Hours 0.5-1
No description available

MUA133 Harpsichord (Non-Majors)
Hours 0.5-1
No description available

MUA134 Voice (Non-Majors)
Hours 0.5-1
No description available

MUA135 Violin (Non-Majors)
Hours 0.5-1
No description available

MUA136 Viola (Non-Majors)
Hours 0.5-1
No description available

MUA137 Cello (Non-Majors)
Hours 0.5-1
No description available

MUA138 Double Bass (Non-Majors)
Hours 0.5-1
Double bass study for non-majors.

MUA139 Flute (Non-Majors)
Hours 0.5-1
No description available

MUA140 Oboe (Non-Majors)
Hours 0.5-1
No description available

MUA141 Bassoon (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 Huxford Symphony Orchestra
Hours 0-1
Applied Ensemble at the undergraduate level.

MUA151 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 Concert Band
Hours 0-1
Applied ensemble at the undergraduate level.

MUA158 Contemporary 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.

MUA165 Flute Choir
Hours 0-1
Applied ensemble for flute students at the undergraduate level.

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 Treble 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

MUA173 Jazz Bass- Electric and Double (Majors)
Hours 1-4
Applied jazz bass lessons for music majors only.

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 Double Bass (Majors)
Hours 1-4
Double bass study at the undergraduate level for music majors.

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 Tenor and Bass Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA199 Sophomore Qualifying
Hours 0
No description available
MUA219 Studio Ensemble
Hours 0-1
Studio ensemble is a lab ensemble. The group will rehearse and perform in the Bryant Jordan Recording Studio. The format will be a recording session. Each rehearsal will have a new piece that the students must learn and record within the constraints of a standard time-sensitive recording session, a la film score, jingle, CD backing musician, etc.

MUA220 Beginning Class Guitar
Hours 2
Basics guitar techniques, especially accompanying self and ensembles with a variety of strumming and picking patterns relevant to music therapy clinical practice.
Prerequisite(s): co-requisite: MUS 180

MUA227 Horn Choir
Hours 1
Applied ensemble for horn students at the undergraduate level.

MUA228 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA229 Guitar (Secondary)
Hours 0.5-1
Applied guitar lessons as a secondary instrument for music majors only.

MUA230 Jazz Bass- Electric and Double (Secondary)
Hours 0.5-1
Applied jazz bass lessons as a secondary instrument for music majors only.

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 Double 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.

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 Huxford Symphony Orchestra
Hours 0-1
Sophomore level ensemble.

MUA251 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 Concert Band
Hours 0-1
Applied Ensemble at the undergraduate 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.

MUA265 Flute Choir
Hours 0-1
Applied ensemble for flute students at the undergraduate level.

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 Treble 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.

MUA273 Jazz Bass-Electric and Double (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 Double Bass (Majors)
Hours 1-4
Double bass study at the undergraduate level for music majors.

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 Tenor and Bass Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA299 Piano Proficiency
Hours 0
No description available

MUA319 Studio Ensemble
Hours 0-1
Studio ensemble is a lab ensemble. The group will rehearse and perform in the Bryant Jordan Recording Studio. The format will be a recording session. Each rehearsal will have a new piece that the students must learn and record within the constraints of a standard time-sensitive recording session, a la film score, jingle, CD backing musician, etc.

MUA327 Horn Choir
Hours 1
Applied ensemble for horn students at the undergraduate level.

MUA328 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA350 Huxford Symphony Orchestra
Hours 0-1
Applied ensemble at the junior level.

MUA351 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 Concert Band
Hours 0-1
Applied ensemble at the undergraduate level.

MUA358 Contemporary 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.

MUA365 Flute Choir  
Hours 0-1  
Applied ensemble for flute students at the undergraduate level.

MUA367 Jazz Combo  
Hours 0-1  
Applied ensemble at the junior level.

MUA368 Treble 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 Jazz Bass- Double and Electric (Majors)  
Hours 0.5-4  
Applied lessons for music majors at the junior level.

MUA374 Voice (Majors)  
Hours 0.5-4  
No description available

MUA375 Violin (Majors)  
Hours 0.5-4  
No description available

MUA376 Viola (Majors)  
Hours 0.5-4  
No description available

MUA377 Cello (Majors)  
Hours 0.5-4  
No description available

MUA378 Double Bass (Majors)  
Hours 0.5-4  
Double bass study at the undergraduate level for music majors.

MUA379 Flute (Majors)  
Hours 0.5-4  
No description available

MUA380 Oboe (Majors)  
Hours 0.5-4  
No description available

MUA381 Bassoon (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 Tenor and Bass Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA399 Junior Recital
Hours 1
No description available

MUA419 Studio Ensemble
Hours 0-1
Studio ensemble is a lab ensemble. The group will rehearse and perform in the Bryant Jordan Recording Studio. The format will be a recording session. Each rehearsal will have a new piece that the students must learn and record within the constraints of a standard time-sensitive recording session, a la film score, jingle, CD backing musician, etc.

MUA427 Horn Choir
Hours 1
Applied ensemble for horn students at the undergraduate level.

MUA428 Tuba and Euphonium Ensemble
Hours 1
Applied ensemble for tuba and euphonium students at the undergraduate level.

MUA450 Huxford Symphony Orchestra
Hours 0-1
Senior level ensemble.

MUA451 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 Concert Band
Hours 0-1
Applied ensemble at the undergraduate 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.
MUA465 Flute Choir  
Hours 0-1  
Applied ensemble for flute students at the undergraduate level.

MUA467 Jazz Combo  
Hours 0-1  
Senior level ensemble.

MUA468 Treble 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 Double Bass (Majors)  
Hours 0.5-4  
Senior level applied double 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 Tenor and Bass Chorus
Hours 1
Applied Ensemble at the undergraduate level.

MUA499 Senior Recital
Hours 1
No description available

MUA501 Secondary Applied Study
Hours 0.5-1
Private instruction.

MUA502 Horn Choir
Hours 1
Applied ensemble for horn students at the graduate level.

MUA527 Tuba and Euphonium Ensemble
Hours 1
Small applied ensembles at the graduate level.

MUA528 Huxford Symphony Orchestra
Hours 1
Applied ensemble at the graduate level.

MUA550 Brass Choir
Hours 1
Applied ensemble for brass musicians. Permission of instructor is required.

MUA551 Wind Ensemble
Hours 1
Applied Ensemble at the graduate level.

MUA552 Trombone Choir
Hours 1
Applied ensemble for trombone students at the graduate level.

MUA553 Percussion Ensemble
Hours 1
Percussion ensemble at the graduate level.

MUA554 Campus Band
Hours 0-1
Applied ensemble at the graduate level open to the entire campus community.

MUA555 Contemporary Ensemble
Hours 1
Applied ensemble at the graduate level.

MUA556 Jazz Ensembles
Hours 1
Applied ensemble in jazz for graduate students.

MUA560 Opera Workshop
Hours 1
Applied ensemble at the graduate level.
Prerequisite(s) with concurrency: MUA 561

MUA561 Opera Production
Hours 1
This course will explore all aspects of opera production, including musical and staging rehearsals, technical elements and stage management and will culminate in a full length production.

MUA562 University Chorus
Hours 1
Applied Ensemble at the Graduate level.

MUA563 University Singers
Hours 1
Applied ensemble at the graduate level.

MUA564 Alabama 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.

MUA565 Flute Choir
Hours 1
Applied ensemble for flute students at the graduate level.

MUA566 Jazz Combo
Hours 1
No description available

MUA567 Treble Chorus
Hours 1
Applied Ensemble at the Graduate level.

MUA568 Chamber Music
Hours 1
Small applied ensembles at the graduate level.

MUA570 Harp (Majors)
Hours 0.5-4
No description available

MUA571 Piano
Hours 0.5-4
No description available

MUA572 Organ
Hours 0.5-4
No description available
MUA574 Voice
Hours 0.5-4
No description available

MUA575 Violin
Hours 0.5-4
No description available

MUA576 Viola
Hours 0.5-4
No description available

MUA577 Cello
Hours 0.5-4
No description available

MUA578 Double Bass
Hours 0.5-4
Double bass study at the graduate level for music majors.

MUA579 Flute
Hours 0.5-4
No description available

MUA580 Oboe
Hours 0.5-4
No description available

MUA581 Bassoon
Hours 1-4
Applied Bassoon study for majors in the Masters of Music program.

MUA582 Clarinet
Hours 0.5-4
No description available

MUA583 Saxophone
Hours 0.5-4
No description available

MUA584 Trumpet
Hours 0.5-4
No description available

MUA585 French Horn
Hours 0.5-4
No description available

MUA586 Trombone
Hours 0.5-4
No description available

MUA587 Euphonium
Hours 0.5-4
No description available

MUA588 Tuba
Hours 0.5-4
No description available

MUA589 Percussion
Hours 0.5-4
No description available

MUA592 Tenor and Bass Chorus
Hours 1
Applied Ensemble at the Graduate level.

MUA670 Harp (Majors)
Hours 0.5-4
No description available

MUA671 Piano
Hours 0.5-4
No description available

MUA672 Organ
Hours 0.5-4
No description available

MUA674 Voice
Hours 0.5-4
No description available

MUA675 Violin
Hours 0.5-4
No description available

MUA676 Viola
Hours 0.5-4
No description available

MUA677 Cello
Hours 0.5-4
No description available
MUA678 Double Bass
Hours 0.5-4
Double bass study at the graduate level.

MUA679 Flute
Hours 0.5-4
No description available

MUA680 Oboe (Majors)
Hours 0.5-4
Applied oboe study at the Doctoral level.

MUA681 Bassoon (Majors)
Hours 0.5-4
Applied bassoon study at the Doctoral level.

MUA682 Clarinet
Hours 0.5-4
Applied clarinet study at the Doctoral Level.

MUA683 Saxophone
Hours 0.5-4
No description available

MUA684 Trumpet
Hours 0.5-4
No description available

MUA685 Horn
Hours 0.5-4
No description available

MUA686 Trombone
Hours 0.5-4
No description available

MUA687 Euphonium
Hours 0.5-4
No description available

MUA688 Tuba
Hours 0.5-4
No description available

MUA689 Percussion
Hours 0.5-4
No description available

MUS100 Music Fundamentals
Hours 3
A foundational course in music focused on the rudiments of music and tonal theory. Topics include clefs, pitches, rhythm, meter, scales, keys, intervals, and triads. The class is open to non-majors if space permits.

MUS115 Theory I: Voice Leading
Hours 4
Study of the fundamental elements of music theory, including rhythm, melody, consonance, dissonance, and functional harmony. We explore these through counterpoint exercises in two, three, and four voices. The prerequisite for this course is MUS 100. A placement exam is available. Contact the department for details.
Prerequisite(s): Prerequisite: MUS 100 with the grade of C- or better

MUS117 Theory II: Diatonic Harmony
Hours 4
Study of the diatonic principles of the common-practice era, including voice leading in triads and seventh chords, basic harmonic syntax, and contrapuntal embellishment. We explore these through four-part writing, analysis, harmonic dictation, keyboard exercises, and sight singing.
Prerequisite(s): MUS 115 with the grade of C- or better.

MUS121 Intro To Listening
FA
Hours 3
This course surveys the history of Western music. Musical styles and genres from the 1600s through present-day will be covered. This course will not only examine the music of the baroque, classical, and romantic periods, but will also delve into the musical worlds of musical theater, film, jazz, the mainstream, as well as other innovative ideas of the 20th and 21st centuries. In addition, this course will focus on teaching students to become active listeners rather than passive hearers in order to discover the beauty, intricacy, and greatness of music from all styles and eras. Students will have the opportunity to apply learned listening concepts by attending live concert events during the semester. No musical experience or training is necessary for this course.

Fine Arts

MUS122 Honors Introduction to Listening
FA, UH
Hours 3
This course will explore one of the fundamental modes of aesthetic expression, music. Presupposing no formal training on the part of the students, we will explore aural skills and tools for recognition through study of music fundamentals and masterworks of Euro-American art music from the Baroque era (1600s) to the present. At the same time, students will be given an overview of the development of Western art music, and critically think how that development relates to larger issues of culture and society. This course is a combination of both online work for which the students are responsible outside of class time, as well as in-class work during the class meeting times each week. Please pay close attention to the online course deadlines as we move through the semester.

Fine Arts, University Honors
MUS150 Songwriting Techniques and Analysis  
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.

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 3
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 100 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: Chromatic Harmony  
Hours 4
Study of the chromatic principles of the common-practice era, including tonicization and modulation, sequences, advanced figuration, and mixture. We explore these through four-part writing, analysis, harmonic dictation, keyboard exercises, and sight singing.
Prerequisite(s): MUS 117 with grade of C- or better.

MUS217 Theory IV: Advanced Harmony  
Hours 4
Study of advanced chromatic principles of the common-practice era, including chromaticized sequences, advanced mixture, chromatic modulation, and equal division of the octave. We explore these through four-part writing, analysis, harmonic dictation, composition exercises, and sight singing.
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.
Prerequisite(s) with concurrency: MUS 100 or MUS 115

MUS228 Jazz Piano Jazz Theory I  
Hours 1
Introduction to the theoretical 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.

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)
Prerequisite(s) with concurrency: Co-requisite: MUS 117
### Course Inventory

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS252</td>
<td>Music History II</td>
<td>3</td>
<td>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.</td>
<td>MUS 251</td>
</tr>
<tr>
<td>MUS254</td>
<td>Diction For Singers I</td>
<td>3</td>
<td>Introduction to the International Phonetic Alphabet; study and practice of Italian and English diction. Offered in alternate years.</td>
<td></td>
</tr>
<tr>
<td>MUS255</td>
<td>Diction For Singers II</td>
<td>3</td>
<td>Study and practice of German and French diction. Offered in alternate years.</td>
<td></td>
</tr>
<tr>
<td>MUS258</td>
<td>Repertoire &amp; Skill Proficiency in Music Therapy</td>
<td>3</td>
<td>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.</td>
<td>MUA 220 with a grade of C- or better. Co-requisite: MUS 181</td>
</tr>
<tr>
<td>MUS259</td>
<td>Music Therapy Techniques</td>
<td>3</td>
<td>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.</td>
<td>MUS 181 and MUS 280 with a grade of C- or better. Co-requisite: MUS 282</td>
</tr>
<tr>
<td>MUS260</td>
<td>Music Therapy Practicum</td>
<td>1</td>
<td>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.</td>
<td>MUS 181 and MUS 280 with a grade of C- or better. Co-requisite: MUS 282</td>
</tr>
<tr>
<td>MUS261</td>
<td>Observation and Orientation to Music Therapy</td>
<td>3</td>
<td>The purpose of this course is to apply principles of human behavior to clinical settings, with an emphasis on measuring client outcomes.</td>
<td>MUS 281 with C- or better. Co-requisite: MUS 282</td>
</tr>
<tr>
<td>MUS300</td>
<td>Readings in Music Theory</td>
<td>2</td>
<td>An introduction to current trends in music theory with an emphasis on close reading and analytical writing.</td>
<td></td>
</tr>
<tr>
<td>MUS303</td>
<td>16th-Century Counterpoint</td>
<td>3</td>
<td>Practical study, through analysis and composition, of vocal polyphony as developed in the 16th century.</td>
<td>MUS 215</td>
</tr>
<tr>
<td>MUS304</td>
<td>18th-Century Counterpoint I</td>
<td>3</td>
<td>The 18-century style of counterpoint as developed by J.S. Bach.</td>
<td>MUS 215</td>
</tr>
<tr>
<td>MUS307</td>
<td>Form And Analysis</td>
<td>W</td>
<td>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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.</td>
<td>MUS 217 with the grade of C- or better Writing</td>
</tr>
<tr>
<td>MUS308</td>
<td>Pro Tools Essentials</td>
<td>3</td>
<td>Pro Tools essential is an introductory course guiding the student through the art of digital audio recording. Founded in the industry-standard Pro Tools, the students will be guided through the process of recording in a Digital Audio Workstation (DAW). Focus will be on the basic applications of processes in digital recording that are applicable to all DAW in the industry.</td>
<td>Musical Audio Engineering major</td>
</tr>
<tr>
<td>MUS310</td>
<td>Arranging</td>
<td>3</td>
<td>Basic jazz arranging techniques for small ensembles. Offered in the fall semester.</td>
<td>Musical Audio Engineering major</td>
</tr>
<tr>
<td>MUS312</td>
<td>Intermediate Arranging</td>
<td>3</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS315</td>
<td>Music Management Activity</td>
<td>2</td>
<td>Practical consideration of all aspects of concert production and administration for musicians and music business people.</td>
<td></td>
</tr>
<tr>
<td>MUS319</td>
<td>Composition III</td>
<td>3</td>
<td>Projects in musical composition.</td>
<td></td>
</tr>
</tbody>
</table>
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered in the fall semester.
Prerequisite(s): MUS 252

MUS325 Instrumentation
Hours 3
A survey of instrumental strengths, abilities, and weaknesses. Basic instrumentation and writing for all ensembles and orchestra. This course encourages work that overlaps with other programs of study, such as composition, performance, audio engineering, and music production.

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.

MUS328 Orchestration
Hours 3
A survey of instrumental strengths, abilities, and weaknesses. Special emphasis on the art and science of writing for larger ensembles. This course encourages work that overlaps with other programs of study; particularly composition, performance, audio engineering, and music production.
Prerequisite(s): MUS 325

MUS331 Jazz Symposium
Hours 3

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 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, hip, 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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 Techniques
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.

MUS341 Advanced Recording/Mixdown Techniques
Hours 3
This course is a continuation of MUS 340, Introduction to Recording Techniques. Focus will be placed on recording techniques with an emphasis on the mix down process. Students will work in a hands-on environment to apply techniques discussed in class, including but not limited to: extended recording techniques; use of plugins and outboard gear; mastering; etc.
Prerequisite(s): MUS 340

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 Introduction to the Psychology Music  
Hours 3  
Basic study of acoustics, the ear and hearing, and the psychosociophysiological processes involved in musical behavior.  
Prerequisite(s): MUS 282 with a grade of C- or above  
Prerequisite: MUS 283 with a grade of C- or above  
Prerequisite: MUA 199  
Co-requisite: MUS 382

MUS382 Music Therapy Practicum  
Hours 1  
Supervised music therapy experience in local facilities.  
Prerequisite(s): MUS 282 with a grade of C- or above  
Prerequisite: MUS 283 with a grade of C- or above  
Prerequisite: MUA 199

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, orchestral techniques, etc. Offered in the spring semester.

MUS403 18th-Century Counterpoint II  
Hours 3  
The analysis and writing of fugue, variation, ground-bass, and canon.  
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 Electronic Music I  
Hours 3  
A survey of seminal works featuring electronic elements. Mastering the principles of recording, editing, signal processing, mixing, mastering, MIDI, sampling, and sound design. This course covers work that overlaps with other programs of study; particularly composition, performance, audio engineering, and music production.

MUS414 Electronic Music II  
Hours 3  
A continued survey of seminal works featuring electronic elements. Instruction in the design and utilization of sound-generating computer programs for digital synthesis, MIDI, and advanced techniques associated with recording and producing audio. This course encourages work that overlaps with other programs of study; particularly, composition, performance, and audio engineering degrees.

MUS416 Special Topics in Music Theory  
Hours 3  
Advanced course in music theory; topics may vary according to instructor.  
Prerequisite(s): MUS 217 with the grade of C- or better

MUS417 Special Topics in Composition  
Hours 3  
Advanced course in music composition; topics may vary according to instructor.

MUS418 Schenkerian Analysis  
Hours 3  
Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers.  
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 of 20th-Century 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.  
Prerequisite(s): MUS 217 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.
MUS430 Applied Recording
Hours 1-4
Applied recording is an individualized study of the art of recording, mixing, mastering, and production of an entire recording project. Based upon needs of the majors as determined by the professor and student, an individualized program of study for the semester will be designed to assist the student and guide them through topics needed for a comprehensive education in recording/mixing engineering.
Prerequisite(s): MUS 308, MUS 340, and MUS 341

MUS440 Advanced Piano Pedagogy
Hours 2
Advanced Piano Pedagogy focused on the teaching of the intermediate and advanced pre-college piano student. Topics covered will include learning styles; methods of teaching advanced rhythm and reading; creating a healthy technical approach for advanced repertoire; intermediate and advanced pedagogical solo material; teaching stylistic interpretation and musicianship; and issues of motivation in advancing students.
Prerequisite(s): MUS 240

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.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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
MUS486 Music Therapy Practicum
Hours 0.5-4
The purpose of this course is to provide music therapy students supervised experience in facilitating music therapy sessions at local facilities throughout the community. This encompasses assessment, program planning, implementation, documentation, and evaluation of music therapy services.
Prerequisite(s): Prerequisite: MUS 181 with a grade of C- or higher

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): Prerequisite: Completion of all courses with C- or higher for MUS 180, MUS 181, MUS 280, MUS 281, MUS 282, MUS 283 MUS 380, MUS 480, and MUS 481. Co-requisite: MUS 382 and MUS 482

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): Prerequisite: 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 Independent Research in Music
Hours 1-6
Independent study of music at the undergraduate level.

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 18th-Century Counterpoint II
Hours 3
The analysis and writing of fugue, variation, ground-bass, and canon.

MUS504 Analysis of Tonal Music
Hours 3
Survey of recent analytical techniques for tonal repertoires with an emphasis on creating close readings of complete pieces.

MUS505 Studio Tech Arrang Orchestrn
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.

MUS512 Electronic Music I
Hours 3
A survey of seminal works featuring electronic elements. Mastering the principles of recording, editing, signal processing, mixing, mastering, MIDI, sampling, and sound design. This course encourages work that overlaps with other programs of study; particularly, composition, performance, audio engineering, and music production.

MUS514 Electronic Music II
Hours 3
A continued survey of seminal works featuring electronic elements. Instruction in the design and utilization of sound-generating computer programs for digital synthesis, MIDI, and advanced techniques associated with recording and producing audio. This course encourages work that overlaps with other programs of study; particularly, composition, performance, and audio engineering degrees.

MUS516 Special Topics in Music Theory
Hours 3
Advanced course in music theory; topics may vary according to instructor.
MUS517 Special Topics in Music Composition
Hours 3
Advanced course in music composition; topics may vary according to instructor.

MUS518 Schenkerian Analysis
Hours 3
Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers.
Prerequisite(s): MUS 504

MUS519 Adv Composition I
Hours 3
Creation of large-scale musical compositions. Offered fall and spring semesters and on demand.

MUS520 Adv Composition II
Hours 3
Creation of large-scale musical compositions. Offered fall and spring semesters and on demand.

MUS525 Instrumentation
Hours 3
A survey of instrumental strengths, abilities, and weaknesses. Basic instrumentation and writing for all ensembles and orchestra. This course encourages work that overlaps with other programs of study; particularly composition, performance, audio engineering, and music production.

MUS527 Studies In Special Lit
Hours 3
Materials vary each semester. May be repeated for credit up to four semesters.

MUS528 Orchestration
Hours 3
A survey of instrumental strengths, abilities, and weaknesses. Special emphasis on the art and science of writing for larger ensembles. This course encourages work that overlaps with other programs of study; particularly composition, performance, audio engineering, and music production.
Prerequisite(s): MUS 525

MUS532 Graduate Diction Review
Hours 2
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.

MUS534 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.

MUS535 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.

MUS536 Prosem Opera History Lit
Hours 3
Survey of operatic styles from the 17th to the 20th centuries via discussion and analysis of selected works.

MUS537 Analysis of 20th-Century 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.

MUS538 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.

MUS539 Special Topics in Lyric Diction
Hours 2
This course is a rotation of special topics in advanced lyric diction designed for graduate students demonstrating basic proficiency in International Phonetic Alphabet usage as applied to lyric diction.
Prerequisite(s): MUS 532

MUS545 Graduate Vocal Pedagogy
Hours 3
A detailed study of the historical and contemporary methods of pedagogy, and analysis of pedagogical problems.

MUS546 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.

MUS547 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.

MUS549 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, the composers, the diverse styles and techniques, the theoretical and aesthetic principles, and the performance practices associated with music of the pre-classical and classical periods via reading, listening, and musical analysis.

MUSS52 Directed Studies Piano  
Hours 1-3  
Independent research projects in piano pedagogy. Offered each semester.

MUSS53 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.

MUSS54 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.

MUSS55 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.

MUSS56 Wind Ensemble Pract I  
Hours 2  
Continuation of Wind Ensemble Practicum I. Offered spring semester.

MUSS58 Proseminar Music History  
Hours 3  
Readings in Music History.

MUSS59 Spec Topics Musicology  
Hours 3  
Advanced study of a selected topic in musicology. Offered on demand.

MUSS61 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.

MUSS62 Contemp Wind Ensmble 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, Schwanter, Penderecki, Bassett, Krenek and others. Offered spring semesters and during the first summer terms of odd-numbered years.

MUSS63 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.

MUSS64 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.

MUSS65 Wind Ensemble Pract II  
Hours 2  
Continuation of Wind Ensemble Practicum I. Offered spring semester.

MUSS66 Directed Studies Piano  
Hours 1-3  
Independent research projects in piano pedagogy. Offered each semester.

MUSS68 Sem Wind Lit-Chambr Form  
Hours 2  
An analytical survey of the content and performance practices of selected wind ensemble literature for chamber groups.

MUSS71 Choral Literature 1450-1750  
Hours 2  
In-depth survey of choral literature up to 1750. Offered spring semesters of odd-numbered years.

MUSS72 Choral Lit 1750-Present  
Hours 2  
In-depth survey of choral literature since 1750. Offered spring semesters of even-numbered years.

MUSS74 Graduate Vocal Literature I  
Hours 2  
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.

MUSS75 Graduate Piano Literature I  
Hours 2  
A survey of the literature of the organ from the 15th to the 18th centuries. Offered fall semesters of even-numbered years.

MUSS76 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.

MUSS77 Adv Organ Literature II  
Hours 3  
A survey of the literature of the organ from the 15th to the 18th centuries. Offered spring semesters of odd-numbered years.

MUSS78 Liturgy Arts Worship Practices  
Hours 2  
A study of the relationship between liturgy, music, and other related arts, both in history and current practice.

MUSS79 Readings in Music History  
Hours 3  
Readings in Music History.

MUSS80 Graduate Vocal Literature II  
Hours 2  
A survey of the literature of the organ from the 15th to the 18th centuries. Offered fall semesters of even-numbered years.

MUSS81 Liturgy Arts Worship Practices  
Hours 2  
A study of the relationship between liturgy, music, and other related arts, both in history and current practice.

MUSS82 Adv Organ Literature II  
Hours 3  
A survey of the literature of the organ from the 15th to the 18th centuries. Offered spring semesters of odd-numbered years.

MUSS83 Advanced Theory Review  
Hours 3  
This course is a review and recasting of classical concepts, including harmony, counterpoint, and form.
MUS596 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.

MUS597 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.

MUS598 Non-Thesis Research
Hours 1-12
No description available.

MUS599 Thesis Research
Hours 1-6
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in music. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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.

MUS639 Special Topics in Lyric Diction
Hours 2
This course is a rotation of special topics in advanced lyric diction designed for graduate students demonstrating basic proficiency in International Phonetic Alphabet usage as applied to lyric diction.
Prerequisite(s): MUS 532

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.

MUS644 Advanced Vocal Pedagogy II
Hours 3
An advanced study of modern vocal pedagogy with special attention to recent acoustical research and technology, and its practical application in the voice studio.
Prerequisite(s): MUS 545 or MUS 642

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 2
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.

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.

MUS697 Oral 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 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.

MUS698 Non-Dissertatn Research
Hours 1-3
No description available

MUS699 Document Research
Hours 1-12
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree in music. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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 timely 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.

NCLT101 Foundations of Adult Learning Seminar
Hours 3
Each prospective LifeTrack student is required to attend the on-campus 2-day Adult Learning Seminar. This seminar includes online work in writing, assessment of computer skills, examining potential for learning outcomes including experiential learning and critical reading and thinking skills.
Prerequisite(s): Students must be fully admitted to the University of Alabama and it must be taken within the first six to nine months of admittance.

NCLT104 LifeTrack Writing Skills & Strategies
Hours 3
Writing Skills and Strategies reviews writing principles for developing college level essays.
Prerequisite(s): A quality writing sample during on-campus orientation showing college level writing skills and admittance in the New College LifeTrack Program.

NCLT105 LifeTrack Research Writing
Hours 2
Writing Strategies for Research teaches the fundamentals of researching and writing research papers.
Prerequisite(s): NCLT 104 with a C or higher

NCLT106 LifeTrack Research Writing
Hours 3
Writing Strategies for Research teaches the fundamentals of researching and writing research papers.
Prerequisite(s): NCLT 104 with a C or higher

NCLT201 Learning Skills for Adults
Hours 3
The purpose of this course is to allow students to gain an understanding of basic learning principles and strategies to improve adult students’ study and learning skills. It provides an opportunity for adult students to develop their own methods of using the strategies and skills they learn to become more effective, involved, and productive workers in their educational experiences and journey.

NCLT203 Analytical Thinking From Experience
Hours 3
This three hour course will equip students with the tools necessary to utilize the application of critical thinking. It provides a series development of experiential learning assessment. The course also guides students through the preparation and compilation of components required for prior learning assessment portfolio evaluation. After completion of the course, students may choose to submit a portfolio for evaluation by faculty assessor (fee required).
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT205 Professional & Academic Use of the Internet
Hours 3
To introduce the student to the social, legal, and ethical issues related to the use of social media and other Internet technologies in professional and academic settings. The widespread use of technology, including social media, has changed the way we make decisions, communicate, and interact with colleagues, instructors, peers, and others. These changes continue to contribute to new social and legal issues that demand a critical examination. The course also focuses on the potential of social media and other Internet sources as research tool.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT206 Theories of Career Development
Hours 3
This course examines approaches to career development such as: Personality Theory of Career Choice, Trait Factor, Psychological, Decision – Situational or Sociological, Developmental, the theory of work-adjustment, Holland's Theory of Vocational Personalities in Work Environment, the Self-concept Theory of Career Development, the Theory of Circumscription and Compromise, and Social Cognitive Career Theory.

NCLT207 Introduction to Personality Styles
Hours 3
This course covers a variety of personality theories including the theoretical and scientific explanations for individuals' characteristic patterns of perception, thought, emotion and behavior. Emphasizes the understanding and mastery of personality constructs applied to students' personal and professional lives.
NCLT208 Internet: Tool for Communication
Hours 3
This course is to introduce students to the Internet as a method of communicating in both professional and academic settings. The use of the Internet has changed the way we work, play and communicate with others. This course will also focus on several new emerging methods of communicating via the Internet.

NCLT209 Introduction to Video Gaming: History & Design Considerations
Hours 3
This three credit contract is intended to provide an overview of the history of the digital (including video) game industry and the process of game development and design. Game terminology, platform comparisons, psychological concepts of interactivity, selected motivation theory, and methods of content creation are examined for business, educational, and/or entertainment uses.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT210 Recreation for Life
Hours 1
Recreation for Life is an independent study for New College LifeTrack students interested in engaging in a new physical activity, and developing an exercise routine that they hope to continue on a regular basis for the rest of their lives (hence the name “Recreation for Life”).

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT211 Volunteerism & Community Engagement
Hours 1
This course allows students to engage with community organizations to learn the challenges and rewards of volunteer service. Students are also exposed to various opportunities for civic engagement.

NCLT212 Experiential Travel
Hours 1
This course will be a student-designed interdisciplinary travel course. It will include the use of materials in the chosen area, work done at a distance and an off-campus visit to a site related to the topic of the course, using interdisciplinary methods of examination, experiential learning and critical thinking and writing.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT213 Lecture Series
Hours 1
This contract is designed to allow students to have an experiential learning experience based on their attendance of either an on-campus extra-course event (lecture based) and follow through with a research project based on the analysis of said event.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT220 Gateway: Introduction to the Arts
Hours 3
This course will introduce students to the function, value, and character of the arts in our everyday lives. It will give students the opportunity to consider the value of the arts in their own development as a person, a student, and as a professional. This course may function a little differently from other courses you take at the University of Alabama.

The goal is to push students out into various art communities: formal and informal, professional and student, local and global. Students are encouraged to develop for themselves the resources necessary to make thoughtful decisions about their future with the arts as consumers, practitioners, citizens, leaders, critics, students, skeptics towards the arts, and lovers of the arts.

Prerequisite(s): Enrollment in the New College LifeTrack Program.

NCLT225 Gateway Science: Tripping over Science
Hours 4
In this course, students will learn about different types of science, primarily natural sciences, and how they relate to other disciplines. What does cooking have to do with chemistry? How is ecology related to economics? Students will also do a final paper connecting multiple science disciplines back to a project or event in their own community.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT230 Gateway: Intro to Social Sciences
Hours 3
This course is to introduce students to the Social Sciences, their methods, and the major areas of study.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT235 Gateway: Introduction to Leadership
Hours 3
This course is meant to give the student an understanding of leadership through studying theories and current topics that addresses the concept of leadership and to be able to identify effective leadership styles.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT236 Topics in Professional Discourse
Hours 1
This course offers four different possible sections that each explore different topics related to professional discourse including the sending and receiving of information between two or more people and the interaction in varying relational situations such as between co-workers, clients, and superiors and subordinates. The course requires significant writing and evaluation of discourse.
NCLT301 The Creative Writing Process
Hours 3

The overall purpose of this course is to introduce the beginning student to the fundamentals of creative writing (primarily fiction) through a series of reading assignments and writing exercises.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT308 Advanced Fiction Writing
Hours 3

To further refine and sharpen creative writing skills and techniques introduced in "The Creative Writing Process" course.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT309 Manuscript Development & Preparation
Hours 3

A continuation of the Advanced Fiction contract, this contract will allow the student to complete a manuscript in creative writing, i.e., a collection of stories, a novella, or a novel, as part of a Senior Project in Creative Writing.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT312 Special Topics in Literature & Film
Hours 1-3

This course will examine various topics through literature and film. Topics may include a range of genres such as: American Comedy, The American South, American Crime, The American Hero, The 1960s, Decades of Lit & Film, and Best Sellers/Blockbusters.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT313 Special Topics in Arts/Humanities
Hours 1-3

This course will examine various topics in the arts and humanities. The course topics will vary each semester.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT315 The Humanities Experience
Hours 3

This contract is designed to increase the student’s understanding and appreciation of several humanities disciplines through a variety of resources (texts, readings and attendance at cultural events) that direct attention to current ethical and cultural issues.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT316 Comparative Mythology
Hours 3

To acquaint students with myth, mythological systems and mythography in relation to the human cultural system through examination of belief systems and rituals in order to explain the actions of others.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT317 Women in Contemporary Culture
Hours 3

Through literary and other readings, the contract introduces students to the women’s movement in the 20th Century and to issues associated with female identity and socialization.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT320 Exploring the Creative Process
Hours 2

This seminar uses creativity as its organizing principle. Human culture, the creative process, and creative expression are explored through written examples, audio/video materials, individual and group projects, and interactions with creative individuals. Throughout the semester students will explore and challenge their own creative processes and acquire scholarly knowledge of creativity in a variety of fields.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT321 Music In Our Lives
Hours 3

This course will introduce students to the function, value, and character of music in our everyday lives. Students will consider music in their everyday life and be introduced to music from other genres and cultures. Students will have the opportunity to explore the value of music in their own development as a person, a student, and as a professional.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT322 Festivals: Local Culture
Hours 3

This course examines local culture as expressed through festivals and public displays of various traditions. Students will attend a range of festivals and learn how to thoroughly describe and analyze the festivals using methods from folklore, cultural anthropology, and performance studies. You will explore festivals through selected reading and viewing materials. You will also attend one festival in or near your community. You will learn about the ways in which arts, music, food, film, heritage, ethnic, and/or religious festivals contribute to and represent local cultures and societies.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.
NCLT324 Summertime Blues
Hours 2
Looking for a cure for the summertime blues? - Take this course and attend a blues concert or blues festival in Alabama or in your local area. This class will introduce students to the blues and will focus on the development of the blues genre in the southern United States (Mississippi Delta region and Alabama). Student will read about the history of the blues, view a documentary film, and attend a live performance of blues music to learn more about this early musical genre that influenced jazz, rock, popular music, and many other musical styles throughout the 20th and 21st centuries.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT325 Visiting Artist Series
Hours 1
This course will focus on the individual artists and scholars who will be giving guest lectures as part of this series (typically on the University of Alabama campus). This is an excellent opportunity to hear first hand perspectives from highly regarded visual artists and art scholars. The student may choose one artist or all three and complete required assignments for each one. Each mini-mester course will include one assignment prior to the lecture for students to become familiar with the artist and his or her work, one summary/reflection assignment after attending the lecture in person or viewing the lecture online, and one final essay based on the artist’s work or scholarship. Distance students who cannot attend the on-campus visit, will be able to view the artist lecture via streaming video.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT330 Directed Study in Literature, Art & Society
Hours 1-3
This course will be designed by the student with the assistance of their Academic Advisor/selected course UA faculty member. It can cover any topic within the area of Literature, Art and other Humanities. It should be interdisciplinary in construction and all elements will be agreed upon between student and course director.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT340 Controversies in Science
Hours 3
This course is online only and will be completed using Blackboard Learn software. Science is often steeped in controversy. Some of this comes from misunderstandings between scientists and non-scientists, while some is a result of bad science. In this course we will look at these different types of controversies to come to a better understanding of what constitutes good science and how to better understand science. Controversies covered include climate change, evolution, human cloning, vaccines, and more.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT341 Designed by Nature: Biomimicry in Our World
Hours 3
It has been said that imitation is the sincerest form of flattery. This is becoming increasingly true and obvious as innovative designers and engineers look to a truly original design source for inspiration: nature and life around us. Hence was born the field of ‘Biomimicry’ which imitates elements of nature to solve complex human problems. In this course students will learn about key components of everyday life and their biological-inspired origins. At the end of the course students will put their knowledge to use either researching a biologically inspired item already in use or by developing their own novel biomimetic innovation.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT342 The Science of the Supernatural
Hours 3
The recent explosion of popular entertainment focused on “supernatural” creatures such as vampires and werewolves has done much to reimagine these ever-popular myths. Any particular version of this genre is sure to add its own twist to origination stories and characteristics. Yet where in fact did these legends begin? And more importantly, is there any data supporting these prevailing classics of folklore? In this course students will examine several works of non-fiction that attempt to explain supernatural myths in our everyday lives.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT343 A Look At Environmental Sciences
Hours 4
The world around us is a complicated one. Our lives are governed by natural processes and human technology. Understanding how these processes interact goes a long way towards allowing us to be better citizens. In this course we will explore seven different areas: climate/weather and other natural phenomena, water, energy, pollution, garbage and recycling, agriculture, and biology. This course is online only.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT344 Special Topics in the Natural Sciences
Hours 1-4
These are instructor designed courses which will explore various topics in the natural sciences.

NCLT345 Human Biology
Hours 3
In this course, students will learn about what makes up the human body as well as how people fit into the broader environment. Topics will include anatomy, physiology, disease, the microbiome, ecology, and humans as animals.
NCLT346 Spiders, Snakes, and Dirt
Hours 4
In this course students will learn about human disconnection from and fear of the natural world and the harm this can cause to children and adults alike. The course will cover many phobias that keep people away from nature such as snakes, spiders, and fear of getting dirty. The course will also cover biophilia; the idea that human connection to nature is necessary and beneficial to our well-being.

NCLT347 Biodiversity Lab
Hours 1
Our world is incredibly diverse in terms of the animals, plants, and other organisms that live here and its geology and other natural features. In this course students will explore this diversity, reasons that it exists, threats to it, and what efforts are being taken to protect it.

NCLT348 Soil Quality Lab
Hours 1
This one hour course will equip students with the tools necessary to examine the fundamental principles of soil quality and the relationship of soil characteristics to productivity. The student will collect a soil sample from a location of choice to determine local soil quality. The sample will be submitted to the local USDA extension office and obtain a certified soil report (fee required).

NCLT349 Water Quality Lab
Hours 1
This one hour course will equip students with the tools necessary to examine the fundamental principles of water quality, with particular emphasis on nutrients and the watershed-level approach. The student will collect a freshwater sample from a lake, river, stream, or pond to determine local water quality. The sample will be submitted to the local USDA extension office and obtain a certified water quality report (fee required).

NCLT355 Directed Study Science, Technology & Culture
Hours 1-3
This course will be designed by the student with the assistance of their Academic Advisor/selected course UA faculty member. It can cover any topic within the area of Science, Technology & Culture. It should be interdisciplinary in construction and all elements will be agreed upon between student and course director.

NCLT360 Grief and Caregiving
Hours 3
At some point in all of our lives we will reach the new normal of caring for aging parents, grief, and loss of those dear to us. Many travel this road alone. Together we will explore the many areas of our lives where we face what it means to be an adult child, a widower, or a parent who lost a child. The process of aging, caregiving, grief, and loss of a loved one is not a brief space of time. How do we move back to being a part of the living world? How do we move beyond feelings of seemingly unending grief, and begin our lives again?.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT361 Conspiracy Theories
Hours 3
Aliens landed in New Mexico! Elvis did not leave the building! Who shot JFK?! The moon landing was faked! 9/11 was an inside job! AIDS is manmade! RFID chips in your babies! The end is nigh... "It’s the end of the world as we know it and I feel fine" –REM This course will explore a sample of conspiracy theories in United States history. Using written and visual sources (Letters, emails, newspaper, editorial cartoons, speeches, etc.), students will be exposed to the conspiratorial language used by Americans to explain the unexplainable. They will emerge from the course with the ability to analyze sources and identify reasons why conspiracies are started.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT362 Nazi Germany
Hours 3
This seminar explores the rise and fall of the Nazi Party.

NCLT363 The Glass Ceiling: Women at Work
Hours 3
This class will explore the history and present of women at work. There is a long history of women working in America that includes a wide range of employment from the domestic sphere to the boardroom. Throughout history and presently, the majority of women have not been able to break “the glass ceiling” which refers to an invisible barrier that prevents someone from achieving further success. It is most often heard in the context of women who cannot advance to the highest levels of power in the workplace. This also affects women based on race and socioeconomic status. The glass ceiling is a way of describing whatever keeps women from achieving power and success equal to that of men. We will look at the past and the present of working women, the challenges they face and decisions they make along the way.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT364 Cemeteries and Local History
Hours 3
To become familiar with the local history of a community by studying its burial spaces.

Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.
NCLT365 Cooperation and Conflict
Hours 3
This course explores cooperation and conflict in human society. We will investigate these ideas within conflicts around race, gender, class, immigration, poverty, etc. Students will investigate and seek solutions to contemporary social problems found within these areas. Specific themes will include economic citizenship, healthcare, and environmentalism. The Socratic imperative that “The unexamined life is not worth living,” will be central to this class. We must strive to interrogate who each of us, as individuals, are in relation to various examples of social conflict. For example, in terms of conflicts surrounding race, we must each ask ourselves, “How do I participate in race?” The same goes for conflicts surrounding immigration, poverty, class, gender, etc. By asking such questions, we can then discuss how we as individuals, in the “everyday”, contribute to conflict as well as how we can contribute to cooperation.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT366 Juvenile Delinquency & Justice
Hours 3
The purpose of this course is to provide the student with a general knowledge and understanding of the problems stemming from delinquency which plague society, theoretical explanations for delinquent behavior, and how juvenile delinquents are processed through the criminal justice system.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT367 Terrorism and Homeland Security
Hours 3
The courses provides students with a better understanding of what terrorism is, its origins and its purpose, and the steps used to combat it.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT368 Global Perspectives of Women
Hours 3
This course will develop understanding and sympathy for women’s lives and experiences around the globe. It will increase the students knowledge of history and culture as well as reading, analytical and writing skills.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT369 Special Topics in the Social Sciences
Hours 1-3
This course will examine various topics in the social sciences. The course topics will vary each semester.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT374 Directed Study in Community Studies
Hours 1-3
This course will be designed by the student with the assistance of their Academic Advisor/selected course UA faculty member. It can cover any topic within the area of Community Studies. It should be interdisciplinary in construction and all elements will be agreed upon between student and course director.

NCLT375 Directed Study in Social Sciences
Hours 1-3
This course will be designed by the student with the assistance of their Academic Advisor/selected course UA faculty member. It can cover any topic within the area of Social Sciences. It should be interdisciplinary in construction and all elements will be agreed upon between student and course director.

NCLT380 The Administrative Process: Theory & Practice
Hours 3
The purpose of the course is to introduce concepts and principles that are essential to understanding how organizations (public, private and educational) operate. In order to understand administration, one must understand the environment in which administration takes place. Organizational studies provide us insight on how effective administration impacts on people, products and society.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT381 Master Mentoring
Hours 1
Students explore what it means to be a mentor, how mentors and proteges form and maintain pro-social interactions and the benefits of these unique interpersonal relationships.

NCLT382 The History of Family Enterprise
Hours 3
Family owned enterprises have played a long and significant role in both world and U.S. economic history. Many of the products and services used today were first envisioned and created by entrepreneurs who went on to establish and sustain business enterprises that would last for generations. And yet, most family enterprises do not survive more than one or two generations. Research indicates that upwards of one third of all family firms only last one generation, while fewer than that last beyond two generations. But despite the difficulties they have faced, family owned firms have shaped much of our current world.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.
NCLT383 Leadership In Literature and Film
Hours 3
Great literary works are often remembered for their great characters. Shakespeare’s King Lear, Arthur Miller’s Willy Loman and Conrad’s Kurtz are just three of many that come to mind. And many of the characters in great literary works are required by the author to exhibit leadership in one form or another. In this course, the role of leadership, as portrayed by key characters in several important works of literature, will be studied.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT384 Small Enterprise Development I
Hours 3
To learn the basic fundamentals for starting and operating a small business.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT385 Nonprofit Management
Hours 2
This course examines the processes and functions of nonprofit management.

NCLT386 Special Topics in Leadership
Hours 1-3
This course may examine various topics in the Leadership Studies. Topics may include: Mentoring, Communication, Human Resource issues, Data Analysis, Strategic Decision Making, Leadership Techniques.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT388 Directed Study in Leadership Studies
Hours 1-3
This course will be designed by the student with the assistance of their Academic Advisor/selected course UA faculty member. It can cover any topic within the area of Leadership Studies. It should be interdisciplinary in construction and all elements will be agreed upon between student and course director.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT491 Seminar: Science, Technology & Culture
Hours 1-4
This course will be topic specific to the area of Science, Technology & Culture. It will include the use of materials in the chosen area, work done at a distance and one weekend on-campus visit, using interdisciplinary methods of examination, experiential learning and critical thinking and writing.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT492 Seminar: Community/Leadership Studies
Hours 1-3
This course will be topic specific to the area of Community or Leadership Studies. It will include the use of materials in the chosen area, work done at a distance and one weekend on-campus visit, using interdisciplinary methods of examination, experiential learning and critical thinking and writing.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT493 Seminar: Social Sciences
Hours 1-3
This course will be topic specific to the area of Social Sciences. It will include the use of materials in the chosen area, work done at a distance and one weekend on-campus visit, using interdisciplinary methods of examination, experiential learning and critical thinking and writing.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT494 NCLT Experience
Hours 1-3
This course will be an interdisciplinary travel course. It will include the use of materials in the chosen area, work done at a distance and one off-campus visit to a site related to the topic of the course, using interdisciplinary methods of examination, experiential learning and critical thinking and writing.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course.

NCLT498 NCLT Senior Project
Hours 1-12
The Senior Project is a distinctive feature of the LifeTrack Program. It is the culmination of the skills students have learned during their time in the program. The project is designed by the student and includes research, analysis, and synthesis of a particular subject. It is the final step in the completion of the undergraduate degree. The Senior Project may be done for professional enhancement, development of personal interests, academic preparation for graduate school or a combination of these goals. Student projects are matched with a University of Alabama professor.
Prerequisite(s): Students must be enrolled at The University of Alabama within the New College LifeTrack program and receive approval from their assigned academic advisor prior to enrolling this course. Students must have met all Program core requirements and have presented a senior project proposal to their Academic Advisor.
NEW100 Intro Interdisc Integratv Stdy
FCMP
Hours 1-2
Designed to help current and prospective New College students become more informed about the University and about the interdisciplinary studies degree so that they may maximize their opportunities in their undergraduate programs through New College.

Freshman Compass

NEW120 Inclusive Leadership Through Sustained Dialogue
Hours 3
In an increasingly polarized world, being an engaged citizen requires skills for resolving the conflicts inherent in a diverse democratic society. Sustained Dialogue (SD) is a five-stage dialogue-to-action model that focuses on transforming change-blocking relationships in order to address issues of social and political differences more effectively. Students will learn the principles and practices of Sustained Dialogue, and they will develop skills for participating in and moderating positive, productive exchanges on challenging topics.

NEW121 Outdoor Leadership and Service
Hours 1
This experiential, service-learning seminar will focus on biodiversity and introduce you to our local environment, local environmental issues, related global environmental issues, and UA’s environmental faculty.

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 text 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—withina 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

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.

Humanities

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

NEW216 Digital Making: Creativity and Computers
FA
Hours 4
This fine arts seminar uses creative work with digital tools as its organizing principle. Human culture, the creative process, and creative expression are explored through written texts, digital media, research, oral and written reports, journals, and individual and group projects. The class goal is to gain a deeper understanding of creativity, innovation and interdisciplinarity in the arts by using computer technology to make creative work. Students will learn through research, hands-on work on creative projects and collaborative work with peers.

Fine Arts
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 Social Problems and Social Change
SB
Hours 4
This seminar explores significant social problems in contemporary society and the complex ways in which social change occurs. Students investigate and seek solutions for current social problems. This course has a 12 hour service-learning component.

Social and Behavioral Sciences

NEW238 Social Problems and Social Change
SB, UH
Hours 4
This honors seminar explores significant social problems in contemporary society and the complex ways in which social change occurs. Students investigate and seek solutions for current social problems. This course has a service learning component that may involve 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
SB
Hours 3
This course introduces students to the leadership principles that have been effective in bringing about major cultural reforms. Students will explore the methods by which reformers have addressed social injustice. The goal of the course is to: 1) prepare self-reflective students equipped with an awareness of national and international social justice initiatives; and 2) develop an understanding of the methods by which cultural change occurs. Throughout the course, students will have the opportunity to explore the issues that they value and the role leadership serves in voicing those values.

Social and Behavioral Sciences

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 1-15
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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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 Consoritum 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
NEW337 Designing and Maintaining a Sustainable Home Landscape  
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  
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 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.  
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.  
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): N/A  
Writing  
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.  
NEW390 Special Topics  
Hours 3-4  
Subject matter varies. New College Special Topics seminars vary by instructor-chosen theme, but all are highly interactive courses that enable students to critically engage content in responsible ways. Each seminar is designed to explore interdisciplinary approaches to a particular issue or theme.  
NEW399 Civic Leadership Dialogues  
Hours 3  
A 2016 Pew Research study found that the political polarization in the U.S. continues to deepen and grow more hostile, and the widening economic disparities predicted by the July 2019 McKinsey Global Institute report The Future of Work in America are likely to further accentuate our national divides. In response to these alarming trends, this course takes an innovative approach to prepare students to be citizens more capable of addressing a politically divisive environment, locally and globally. Serving as a civic learning “laboratory,” the Civic Leadership Dialogues offer students the opportunity to acquire the “democratic knowledge and capabilities” that can only be “honed through hands-on, face-to-face, active engagement.”.
Writing student performs in other areas of the course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

NEW407 Landscapes of the South
Hours 3
A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

NEW410 Writing Culture: Ethnography in Theory & Practice
W
Hours 3
What does it mean to write about a culture? What can we discover about our environment by talking to people and listening to their stories? How do we learn enough to express something of their essence through words on a page? This course will engage with these and other issues surrounding the act of ethnography (the writing and interpretation of people's lives and cultural practices) through a combination of theoretical and practical approaches. Students interested in anthropology, journalism, sociology, storytelling, cultural criticism, filmmaking, folklore, the arts, social work and oral history will learn useful skills and gain practical experience that can be applied to their own work. We will read critical theory that discusses the role and craft of ethnography. We will examine a range of existing research on a number of global topics that use a variety of disciplinary approaches. Finally, as a research team, we will pursue self-designed research projects to begin the first stage of an "ethnographic map" of our region of Alabama, to learn new things about the world in our backyard and produce a website to share our findings. Interested students should be aware that the second half of the class will likely involve a significant amount of individual or group research in place of traditional course meeting times. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

NEW412 Songwriting Workshop
W
Hours 4
This songwriting workshop focuses on how songs are made. After a brief study of various popular song genres (e.g., blues, troubadour, folk) students will produce their own songs. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 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 justice. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

NEW418 Mash-Up: Intermedia Intersections in the Arts  
W  
Hours 3  
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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

NEW422 Girls’ Studies  
W  
Hours 3  
This interdisciplinary seminar introduces students to the key debates, concepts, and questions raised by the emerging field of Girls’ Studies. The course will examine the history and social construction of girlhood in the 20th and 21st centuries, as well as draw on girls’ lived experiences, activism, and cultural productions, in order to challenge established definitions of “girls” and “girlhood.” Writing proficiency within this 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): None.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. The course has New College designations for Environment, Sustainability, and Conservation (ESC) and Social Problems and Social Change (SPSC).

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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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.

NEW480 Leadership Practicum
Hours 3

This course offers a practicum experience for students pursuing the Civic Engagement and Leadership minor, New College students pursuing a depth study in an area related to civic engagement and/or leadership, and student leaders with significant campus or community leadership experience. The course will assist students in applying the theoretical knowledge gained in their academic study of civic engagement and leadership to a professional context of their choosing through a carefully designed and implemented leadership project. Upon completion of the leadership practicum, students will submit a portfolio documenting their professional growth as a leader.

Prerequisite(s): NEW 237 or NEW 238 and PHL 292 or NEW 273

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

Subject matter varies. New College Special Topics seminars vary by instructor-chosen theme, but all are highly interactive courses that enable students to critically engage content in responsible ways. Each seminar is designed to explore interdisciplinary approaches to a particular issue or theme.

NEW495 Capstone Sem & Senior Project
Hours 2

The Senior Project, completed by all New College students in their senior year, gives students the opportunity to put into practice interdisciplinary and integrative methods of scholarship while integrating and refining knowledge of their depth study area. Projects must result in a piece of interdisciplinary writing and a twenty-minute oral presentation at the New College Senior Research Symposium, and may include other components as well. This course also includes a mentoring component wherein seniors work with incoming New College students. Senior standing in New College and completion of the Third Year Review is required to enroll.

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
N
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
N
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

PH111 Intro Physics Seminar
Hours 1
Seminar on current topics in Physics, aimed at a level accessible to all undergraduates. A broad introduction to exciting recent developments in physics, current areas of interest, and ongoing research at UA. Multiple faculty will present seminars, including some based on student suggestions.

PH115 Descriptive Physics for Non-Science Majors
N
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
N, UH
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
N, UH
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
N
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
N
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
The course provides an introduction to the topics of modern physics based on a theoretical approach. Topics include: the theory of special and general relativity with applications to black holes and cosmological models; particle physics and basic aspects of the standard model; nuclear physics with applications; fundamental interactions and symmetries; astrophysics of stellar evolution and celestial objects.
Prerequisite(s): PH 253

PH405 Physics For Science Teachers
W
Hours 3
Selected topics in contemporary physics for high-school and post-secondary science teachers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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

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
Prerequisite(s) with concurrency: MA 237

PH442 Quantum Structure of Matter II
W
Hours 3
Time-independent perturbation theory, variational principle, WKB approximation, time-dependent perturbation theory, adiabatic approximation, scattering theory. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 253

PH482 Topics Physics & Astronomy
Hours 1-3
Topics in physics and astronomy not covered by existing courses. Repeat credit is allowed for different topics.

PH490 Honors Seminar In Physics
UH
Hours 1
A seminar course on current topics in physics and astronomy.

University Honors

PH491 Advanced Laboratory
W
Hours 3
Advanced experiments in modern physics. Research, analysis, and reporting of scientific results. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

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

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 Digitl 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

PH561 Nuclear Particle Physics
Hours 3
Structure and properties of nuclear and subnuclear matter; conservation laws; scattering and decay processes; and fundamental interactions.

PH571 Statistical Physics
Hours 3
Ensembles, partition function, quantum statistics, Bose and Fermi systems, phase transitions and critical phenomena, and applications.

PH581 Solid State Physics
Hours 3
Structure of simple crystals; thermal, electrical, and magnetic properties of solids; the free-electron model and the band approximation; and semiconductors.

PH582 Topics Physics & Astronomy
Hours 1-3
May deal with any physics or 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.

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 mater, 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 magnetotransport 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.

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

PH61 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

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
Through analyzing influential arguments from the history of philosophy, including arguments concerning questions of values, ethics, and aesthetics, students will learn to apply tools and methods of formal deductive logic. Such analytical tools include the construction of proofs and countermodels to evaluate philosophical arguments as well as arguments concerning other topics.
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.
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
Humanities
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

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

PHL230 Political Philosophy
HU
Hours 3
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

PHL234 Social Philosophy
HU
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
HU
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
PHL243 Philosophical Issues in Constitutional Law  
**HU**  
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  
PHL261 Philosophy, Psychology, and Neuroscience  
**HU**  
Hours 3  
Recent results in psychology and neuroscience have relevance to perennial topics in philosophy such as free will, rationality, ethics, and religion. Additionally, the philosophical knowledge accumulated over aeons on these topics continue to inform psychological and neuroscientific research into these areas. This class surveys the give and take between these fields that has occurred over the last few decades, with a keen eye to seeing how the cognitive sciences have helped further the debate over some of these often ancient philosophical issues.

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  

PHL260 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.

PHL290 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  

PHL293 Environmental Ethics  
**HU**  
Hours 3  
This is a survey course in environmental ethics. Students will be introduced to philosophical debates on a range of contemporary environmental issues. Centrally, we will consider how traditional ethical reasoning, which focuses on humans, can be extended to analysis of the natural world. We will examine conceptual and normative issues concerning biodiversity, sustainability, animal welfare, climate change, and population growth. We will also take up questions such as the following: What is owed to future generations and to distant others? How should we balance the goals of environmental protection and economic development? What does it mean to be an ethical consumer?.

Humanities
PHL294 Business Ethics

**HU**

Hours 3

“Doing business” is something that permeates our lives. As customers, employees, employers, business owners, and simply as members of a community, we stand in important business relevant relations to others, for which it is appropriate to ask questions about the ethical status of our actions. Are we acting in ethically appropriate ways? To answer this we need to know what principles should govern our actions and what justifies those principles. In this course we will look at case studies in light of standard philosophical theories about what constitutes and justifies normative ethical principles and action.

Humanities

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.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Prereq: at least one prior philosophy class with a B or better.

Prerequisite(s): One prior PHL class with a B or better

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Tentative course requirements: two papers, a final 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Two philosophy courses 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

**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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing
PHL388 Art and Human Nature

Hours 3

The arts are seemingly found in all human cultures. Why is this so? Is art deeply embedded in what we might call "human nature"? Philosophers have long thought about the arts in terms of human nature. More recently, there are proposals that we can think about the arts "naturalistically" in terms of what the biological and human sciences tell us about human nature, and the very human tendencies to make and appreciate art of all kinds. This naturalistic turn requires philosophical thinking first about how we should conceive art; second, how we can interpret and evaluate art, and third, how it functions in a variety of cultural and environmental contexts. We will be looking first at some classical theories of art and human nature, then at some naturalistic/scientific theories of art. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Regardless of examination grades, an average essay grade below a "D-" guarantees a course grade of F. Instructor is willing and able to teach writing skills as needed to assist students in meeting the writing requirements of the course. As is appropriate for courses with the W designation, students are expected to produce "coherent, logical, and carefully edited prose" that demonstrates "higher-level critical thinking skills, such as analysis and synthesis. Your writing will be assessed according the following criteria: Organization Clarity of Exposition Accuracy of Exposition Use of Language (precision and concision) Strength of Reasoning Consistent with the University policy, students enrolled in this course must submit an electronic copy of their first essay to Turnitin.com through Blackboard Learn.

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 two 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Prerequisite(s): Successful completion of two PHL courses.

Writing

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. Must have taken at least two previous philosophy courses or permission of instructor. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Prerequisite(s): Must have taken at least two previous philosophy courses or permission of instructor.

Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Prerequisite(s): At least two prior philosophy (PHL) courses, though the instructor waives this requirement under certain circumstances.

Writing
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): None, although previous coursework in ethics will be helpful.  
Writing  

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): None, although previous coursework in ethics will be helpful.  
Writing  

PHL442 Ticking Time Bombs: Philosophy and National Security  
*W*  
Hours 3  
As the “ticking time bomb” hypothetical typically goes, you are an intelligence agent or law enforcement officer who has detained the one terrorist with knowledge of how to prevent a large-scale attack. One may contort the hypothetical to make it as heart-rending as possible, but the ultimate question is whether you should torture the detainee in such an extreme scenario. These scenarios raise pressing practical and philosophical questions, but they need not be so extreme. This course examines the central legal and philosophical issues relating to national security, including terrorism, torture, the ethics of intelligence, the national security uses and risks of artificial intelligence, and the balance between security and liberty.  
Writing  

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): Grade of B- or better in any 200-level or above Philosophy class with a writing designation.  
Writing  

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): None  
Writing
PHL488 Philosophy of Mental Health
W
Hours 3
This class will explore 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? Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): A grade of 'B-' or better in a PHL course at the 200 level or above.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 student 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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

Prerequisite(s): POR 101

Foreign Language

POR201 Intermed 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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

Prerequisite(s): POR 102
PSC101 Intro American Politics
Hours 3
Survey of the principles, political institutions, and practices of American national, state, and local politics. Elucidation of how people can affect government processes and decisions, and how government processes and policies affect people.

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.

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.

PSC211 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.

PSC212 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.

PSC322 Special Topics in American Politics
Hours 3
This course focuses on aspects of US political institutions, attitudes, and/or behavior not typically covered in depth in the department’s regular course offerings in American politics. Specific offerings will vary by semester and instructor.

PSC323 Special Topics in Comparative Politics
Hours 3
This course covers politics in a country or region not typically covered in depth in the department’s regular course offerings, or involves a cross-national analysis of a political institution, issue, policy, or behavior not typically addressed in our regular comparative politics courses. Offerings vary by instructor and semester.
PSC324 Special Topics in International Relations
Hours 3
This course addresses aspects of international relations (e.g., diplomacy, trade, conflict, and/or international organizations) not typically covered in depth in the department’s regular IR course offerings. Specific offerings vary by semester and instructor. Students must consult the International Studies program director to ascertain whether and/or how a particular edition of this course might apply to the INST major or minor.

PSC325 Special Topics in Political Theory
Hours 3
This course addresses theorists, issues, cultures, and/or historical eras not typically covered in depth in the Political Science Department’s regular course offerings in Political Theory. Specific topics will vary by instructor and semester.

PSC326 Special Topics in Public Administration/Policy
Hours 3
This course addresses issues and/or substantive areas within Public Administration and/or Public Policy that are not covered in depth in the Department’s regular course offerings. Specific offerings will vary by semester and instructor. Applicability of specific editions of this course to the Public Policy Minor depends on evaluation by the Coordinator of the Public Policy Minor.

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

PSC332 Politics of Latin America
Hours 3
This course will examine Latin American political and economic developments throughout the 20th and early 21st centuries.
Prerequisite(s): PSC 203 would be helpful.
Prerequisite(s) with concurrency: None

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.
Prerequisite(s): PSC 203 or permission of the instructor

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 political 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): N/A
Prerequisite(s) with concurrency: N/A
Writing

PSC337 Politics of the Middle East
Hours 3
This course is designed to introduce advanced undergraduate students to contemporary Middle East politics. The course adopts a thematic approach to the study of Middle East politics. Important themes and questions in comparative politics will guide analysis of the complex political realities in the contemporary Middle East. The course begins with a historical overview of the emergence of the modern state system in the contemporary Middle East. The rest of the course draws on the tools of comparative politics to address some of the major issues facing the Middle East which include, but are not limited to, authoritarianism, political participation, identity politics, economic development, the political economy of oil, Islamist social and political movements, and the politics of gender.
Prerequisite(s): PSC 203 is recommended but not required.

PSC338 Mexican Politics
Hours 3
This course will examine the political history of Mexico and will also provide a survey of contemporary issues in Mexican politics.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC343</td>
<td>Authoritarianism</td>
<td>3</td>
<td>The surprising persistence of authoritarian regimes since the end of the Cold War has inspired a major new literature in comparative politics on how non-democracy works. This course will address a number of important questions related to the functioning of authoritarian regimes and will explore authoritarian politics in Africa, Latin America, the Middle East, Asia, and the post-Soviet countries. Prerequisite(s): None; PSC 203 is recommended.</td>
</tr>
<tr>
<td>PSC344</td>
<td>The Israel-Palestine Conflict</td>
<td>3</td>
<td>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 (ie, 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.</td>
</tr>
<tr>
<td>PSC345</td>
<td>Issues in Global Governance</td>
<td>3</td>
<td>Global governance refers to institutions, regimes and rules that regulate the conduct of global politics in multiple areas. This class focuses on the challenges facing global governance regimes, such as demands for reform, fragmentation, the establishment of alternative institutions, regionalism and normative resistance. Students will learn about how these challenges impact multiple domains of global politics, including the UN Security Council, the global economy, international law, security, health, and the environment.</td>
</tr>
<tr>
<td>PSC353</td>
<td>Modern Political Thought</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PSC361</td>
<td>Fiscal Policy &amp; Budget</td>
<td>3</td>
<td>Study of governmental revenue and expenditure policies with emphasis on the budget as a method of administrative and fiscal control.</td>
</tr>
<tr>
<td>PSC362</td>
<td>Organization Theory</td>
<td>3</td>
<td>An examination of traditional and contemporary organizational theory and its application to public administration.</td>
</tr>
<tr>
<td>PSC364</td>
<td>African Amer &amp; Polit Sys</td>
<td>3</td>
<td>A historical and contemporary assessment of the political, social and economic development of African-Americans in the American political system.</td>
</tr>
<tr>
<td>PSC365</td>
<td>Introduction to Environmental Policy</td>
<td>3</td>
<td>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 &quot;new institutional approach,&quot; &quot;resource regimes,&quot; 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, &quot;wise use,&quot; adaptive management, and resilience are examined. This course is cross-listed with NEW 365. Prerequisite(s): No prerequisites are required.</td>
</tr>
<tr>
<td>PSC369</td>
<td>Social Movements and U.S. Politics</td>
<td>3</td>
<td>In this course we will examine the causes and consequences of social movements in U.S. politics. Although social scientists have defined “social movements” in somewhat different ways, we will rely on a relatively simple definition that reflects the shared elements of all of the definitions found in the literature. Social movements are collective, organized efforts of non-state actors to promote or resist change, that rely in whole or in part on unconventional political tactics. Throughout U.S. history, it is difficult to identify major examples of policy change that were not spurred by social movement activity. Yet, social movements remain the least studied form of political influence within the discipline of political science. Therefore, much of the material from this course will draw from the fields of sociology and history, where the majority of the research on social movements can be found.</td>
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<tr>
<td>PSC370</td>
<td>American Public Policy</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>PSC395</td>
<td>Law and Judicial Advocacy</td>
<td>3</td>
<td>This course is designed to permit dedicated instructional time to special issues in the current year's American Mock Trial Association competition problem. The instructional time will be spent both on examination of specific legal issues and questions present in the case and practical exercises, meant to sharpen individual and team trial advocacy skills.</td>
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</tbody>
</table>
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

PSC417 Gender and Politics
Hours 3
The objective of this course is to understand how gender influences women's representation and women's role in the electoral process, both as voters as well as candidates and office holders. We will discuss the concept of gender and cultural norms of womanhood and the way they impact women in the political arena. The political representation of women and their interests, as well as women's experiences as citizens, candidates, and elected officials, cannot be understood without this contextual lens. Over the course of this class, we will investigate women's participation, the conceptualization of women's interests, women's portrayal in the media and women's effectiveness as legislators, both on the state as well as the congressional level in the US. PSC 101, highly recommended.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of 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.

PSC434 Internatl 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

PSC439 Politics and Policy of the United Kingdom W
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): PSC 101 and junior class status, or permission of instructor
Writing
PSC441 Terrorism and Political Islam

Writing

Hours 3

This is an introductory course into two distinct subjects: terrorism and Islamist movements. The main aim of the course is to show when and why Islamists turn violent, but it also emphasizes that not all Islamists are terrorists. The first part discusses correlates of terrorism, including agents, strategies, and ideologies of terrorist organizations as well as the causal underpinnings of terrorist group formation. The course's second part highlights varieties in Islamist organization, namely social movements, opposition groups, state actors, and militant organizations. The final part of the course focuses on empirical examples of Islamist terrorist organizations: Hamas, Hezbollah, Al-Qaeda, and the Islamic State. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

PSC442 International Conflict

Hours 3

Examination of the various kinds of violent conflicts in which nation-states become involved.

PSC443 Comparative Public Policy

Writing

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

PSC444 International Organizations

Hours 3

This course focuses on understanding and analyzing why states create international institutions and why the effects of these institutions vary. Divided into two sections, students will begin with conceptual and theoretical analysis of why states create international institutions and why such institutions do or do not produce desired outcomes. Next, students will examine how international governance has evolved in four different issue areas – peace and security, the international environment, and human rights – and what the current challenges are.

Prerequisite(s): PSC 204

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.

PSC449 International Relations of the Middle East

Writing

Hours 3

This course surveys the evolution of regional geopolitics in the Middle East. It traces how colonialism, state building, and nationalism formed the Middle East regional system and how domestic political struggles, external inventions, and geopolitical rivalries have defined shifts in state and societal insecurity and the dynamics of the regional order. Special attention is given to US diplomatic and military interventions in the region, their regional consequences, and state and societal opposition to US influence in the region. The course also considers the “new Arab wars” in the wake of the Arab Uprisings, the rise of new regional powers and non-state actors, and current debates about the future evolution of regional politics and the role of the US in the region. PSC 204 is recommended before taking this course, but not required. Writing proficiency 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 Political Science or International Relations will not earn a passing grade, no matter how well the student performs in other aspects of the course.

Writing

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 Administration

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

PSC467 The Conservative Movement in America

W

Hours 3

This class will examine the origins and history of the conservative political movement in the United States, following the development of this ideology from its origins as a small movement of journalists and intellectuals to the dominant ideology of the Republican Party, and ultimately, for a time, the dominant ideology in the United States. This class will focus primarily on texts written from a conservative or right-wing perspective. That said, the purpose of this class is not indoctrination. Students are encouraged to engage in vigorous, respectful class discussions on the ideas presented, noting any weaknesses perceived in the arguments considered. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

PSC471 Equal Opportunity and the Law

W

Hours 3

The concept of equal opportunity is a bedrock principle of American political culture. We pride ourselves on the idea that all Americans, regardless of race, gender, class level or other demographic characteristics, have a chance to live the American Dream of getting a good job, owning your own home and creating a successful and satisfying life. This course will examine whether equal opportunity is a reality in America, and what effect the law and public policy have on equal opportunity. 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 this discipline will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): PSC 101

Writing

PSC472 Law in Everyday Life: Theory & Application

W

Hours 3

Law is traditionally studied vocationally. That is, students of the law often learn about it strategically, in order to eventually write legislation, advocate for a client, or decide cases. In this class, students will be introduced to a different way of studying law, one rooted in the interdisciplinary field of legal studies (sometimes known as “law and society”) that draws on knowledge, methodologies, and critical theories from several disciplines. Rather than studying law as an enterprise that operates autonomously, this course introduces students to the study of law as an object that cannot be understood apart from the social, political, and cultural contexts in which it exists, to include race and ethnicity, social class, gender, sexual orientation, and nationality. With these goals in mind, this course will explore how law permeates human life and, conversely, how human life permeates law. As this course is one that satisfies the “W” requirement, writing proficiency within this 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

PSC500 Departmental Seminar I

Hours 0.5-1.5

This course covers information on teaching, research, and the profession of political science.

PSC501 Departmental Seminar II

Hours 0.5-1.5

This course covers information on teaching, research, and the profession of political science. 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.

PSC515 US National Government Institutions

Hours 3

A detailed analysis of the Constitutional design, evolution and development, current structure and functioning, and policy outputs of the US Congress, Presidency, and the Federal Bureaucracy. Key political science theories, current public controversies, and reform proposals concerning these Federal institutions will be discussed.

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.

PSC613 State Politics and Policy
Hours 3
In this course we will examine theories and related research on state government and the policymaking process in the U.S. states. The course is divided into three parts. For approximately the first third of the semester, we will examine a fairly representative set of readings which span a broad range of political institutions through which policy is made. These institutions include the office of the governor, the state legislature, the state judicial system, and the various practices of direct democracy across the states. Part two of the course will be spent studying theories of the state policy process. We will examine a variety of theories, reflecting a broad range of forces that are thought to play a significant role in shaping state policy outcomes. As we will see, despite the complex and seemingly idiosyncratic nature of the policymaking process, state politics scholars have identified many systematic relationships between various institutional and contextual variables, and state policy outcomes. The insights that have been generated from this literature not only contribute to our understanding of state policymaking, but in many cases they shed light on debates that are relevant to scholars of American (national) politics, or in some cases, comparative politics. In the final section of the course, we will examine research in several substantive policy areas which have traditionally been considered the domain of the states. Our emphasis in this section will be broadened to include not just studies of policy adoption, but studies of policy implementation and impact as well.
A survey of the theoretical literature in the field of comparative politics.

PSC614 Race and American Politics
Hours 3
Despite the passage of the Civil Rights Act (1964) and the Voting Rights Act (1965) fifty years ago, and the recent election of an African American president in 2008, racial inequality persists across many dimensions of American life, including earnings, wealth, educational and occupational attainment, health and longevity, and access to political power and influence. Despite claims of a “post-racial” America, the events in Ferguson, Missouri and the recent movement that they have sparked, serve to remind us that racial inequality and its impact on race relations continue to play a central role in American politics. Today, African Americans and Latinos comprise approximately a quarter of the U.S. population. In many cities and some states, white Anglo citizens actually comprise a minority of the population, and demographic projections over the next two decades suggest that the white share of the population will continue to decline. Thus, it seems clear that race relations will remain central to understanding American politics at all levels of government in the years to come. In this course we will examine theories and related research on the role of race relations and racial stratification in American politics. The course is divided into four major sections. The first section of the course examines theories of racial prejudice. In this section we will examine some of the most important debates in the literature, including the possible existence and precise definition of a “new racism,” innovations regarding the measurement of prejudice to overcome social desirability bias, and the effects of increasing diversity on racial attitudes and race relations. In part two of the course we will examine the effects of racial attitudes on political behavior. We will examine the effects of race and prejudice on vote choice, the role of racial attitudes in the growth and success of the Republic Party in the South in recent decades, racial framing effects and the effects of the use of racial “code words” in campaigns and the mass media, and the role that racial attitudes have played in evaluations of and support for Barack Obama. In part three of the course, we turn out attention to the causes and consequences of the election of minority elected officials. What factors contribute to the success of black and Latino candidates in elections? And what difference does it make? In this section we will examine the debate over the importance of minority descriptive representation in advancing minority interests, as well as the effects of the increasing diversification of elected officials on other aspects of American politics. In the final section of the course, we will examine the importance of race in the policy process. We begin by examining theories and evidence of the influence of race relations in policy design and policy adoption. We then turn our attention to the importance of race in policy implementation and policy outcomes.

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 Spec 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.

PSC641 Issues Internatl Rel
Hours 3
An examination of major problem areas in the international system and their effects. Content varies.

PSC642 Core Seminar in International Relations
Hours 3
A survey of contemporary theoretical approaches to the study of international relations, providing an overview of traditional and behavioral orientations.

PSC643 International Relations Theory (I): Realism
Hours 3
This is the first of a series of two seminars on the core "traditions" of international theory. "Traditions" means a series of loosely connected ontological, epistemological and normative propositions: claims as to what the world is made of, how it can be understood, and what the work of scholarship could or should be. These propositions are interwoven in a variety of ways that make them hard to unravel. They are made even more so by the fact that they are intercut with a variety of different methodologies to form highly disparate research programs. Core concepts and testable propositions meld with background beliefs and lived experiences to structure our thinking in ways that can be hard to see.

PSC644 Core Seminar in International Relations
Hours 3
This is the second of a series of seminars on the core "traditions" of international theory. "Traditions" means a series of loosely connected ontological, epistemological and normative propositions: claims as to what the world is made of, how it can be understood, and what the work of scholarship should be. These propositions are interwoven in a variety of ways that make them hard to unravel. They are made even more so by the fact that they are intercut with a variety of different methodologies to form highly disparate research programs. As a result, what we think of as 'IR-liberalism' cannot be studied as a series of simple and testable propositions, nor as simply the extension of a consensus body of philosophical or political principles into the field of world politics.

PSC645 International Relations Theory (II): IR-Liberalism
Hours 3
This is the second of a series of seminars on the core "traditions" of international theory. "Traditions" means a series of loosely connected ontological, epistemological and normative propositions: claims as to what the world is made of, how it can be understood, and what the work of scholarship should be. These propositions are interwoven in a variety of ways that make them hard to unravel. They are made even more so by the fact that they are intercut with a variety of different methodologies to form highly disparate research programs. As a result, what we think of as 'IR-liberalism' cannot be studied as a series of simple and testable propositions, nor as simply the extension of a consensus body of philosophical or political principles into the field of world politics.

PSC646 Civil Wars
Hours 3
This course is an introduction to the advanced study of civil wars. We will explore: the impact, causes, duration, and outcome of civil war; the duration of peace after civil war; peacekeeping. Seminars will consist of Power Point lectures, student presentations, and discussion. Students are expected to write quality research papers that are theoretical, analytical and bring to bear empirical evidence.

PSC647 Foreign Policy Decision Making
Hours 3
This class is an overview of the key components of Foreign Policy Decision Making (FPDM). Learning goals include understanding theories and models pertaining to FPDM as evidenced by student presentations, an exam, and a term paper. Students are expected to participate in class discussions.
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 12 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.

PSC667 Public Budgeting
Hours 3
Problems of financial management in governmental units: revenue sources, budgeting, financial management, and control.

PSC668 Program Evaluation
Hours 3
This course introduces students to the framework of evaluation, the development of plans to perform various types of evaluations, and the data collection tools for implementing evaluation. It focuses on various disciplines, including performance measurement, management, and data analysis. Additionally, we will explore the role of evaluators, program staff, and stakeholders in planning, implementing, and responding to program evaluation.

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

PY101 Intro To Psychology
SB
Hours 3
Basic principles of psychology.

PY105 Honors Intro Psychology
SB, UH
Hours 3
Honors section of PY 101.

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.

PY313 Sensation and Perception
Hours 3
Physiological and psychophysical aspects of the senses.

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.

PY352 Developmental Psych
Hours 3
Physical, intellectual, emotional, and social development throughout the life span.

PY379 Internship & Research
Hours 3-6
Field work and research opportunities to be supervised by departmental faculty.
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 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 a thesis committee is required. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): PY 378

University Honors, Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): PY 101 or PY 105 and PY 211

Writing

PY394 Mentoring Students with Autism

Hours 3

This course is designed to give students experience working with individuals on the autism spectrum. Each student will be paired with a UA-ACTS student who will meet with 2-3 times per week to address academic organization, social skills, and daily-living and career-building skills. Students will also learn about best practices, trends, and barriers in working with individuals with ASD in the college environment.

Prerequisite(s): PY 101 or PY 105

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

PY399 Internship in Psychology

Hours 3

An opportunity for students to gain practical experience in psychology. Enrollment by application and interview only.

Prerequisite(s): PY 101 or PY 105 and PY 321

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

Scientific approaches to understanding the psychological development of youth and its applications. Suggested for undergraduate seniors.

Prerequisite(s): PY 355

PY470 Intro Cognitive Psychlg

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

University Honors

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

PY481 Readings In Psychology

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

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.

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.

PY599 Thesis Research

Hours 1-12

This independent research course partially fulfills required master’s-level research thesis hours toward the master’s degree [in your field]. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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 multivibrate 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.

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 Neurophysiology
Hours 3
This course will provide an overview of the principles, theory, and applications of human affective neurophysiology. 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 neurophysiological 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 Practicum 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.

PY639 Practicum 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.

PY647 Social and Emotional Development
Hours 3
The field of children’s social development is rich in its theoretical foundations, history, methodology, and connections to applied and policy issues. The purpose of this graduate course is to provide an overview of current theory and research on social and emotional development. The emphasis will be on issues and questions that have dominated the field over time and that continue to provide impetus for research. The goal is to provide a foundation for your later coursework and research by introducing you to a broad range of topics, theories, and studies rather than to give in-depth coverage of any area.
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 into 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.

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.

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.

PY693 Seminar:Adv General Py
Hours 1-3
Seminar:Advanced General Psychology.
PY694 Behavioral Medicine
Hours 3
This course intended to provide foundational knowledge in Behavioral Medicine. The course will focus on scientific knowledge of the interrelationships among behavioral, emotional, cognitive, social and biological components in health and disease as they relate to the promotion and maintenance of health and the prevention, treatment and rehabilitation of illness and disability. The course will examine the typical populations that are the focus in Behavioral Medicine research and intervention. Thus, assessment of and intervention with chronic disease (HIV/AIDS, cancer, heart disease, chronic pain, diabetes etc.) as well as acute health problems will be covered.

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
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree (or Ph.D. degree in your field). The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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 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.
Prerequisite(s) with concurrency: None.

Humanities

REL105 Honors Intro Relig Stdy
HU, UH
Hours 3
Honors version of REL 100.

Humanities
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  

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  

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.
An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.

REL236 Islam

REL237 Self Society & Religions

REL238 Philosophies Of Judaism

REL240 Apocalypse In Popular Media

REL241 American Religious History

REL245 Honors Hist. Religions of Amer

REL310 REL Goes to the Movies

REL311 English Bible As Literature

REL315 Digital Humanities in Religious Studies

REL321 Rel & Ident in South Asia

REL322 Tales from Asia: Told and Retold in Film and Popular Culture

REL336 Islam and the West
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 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 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 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 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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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. 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 proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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.

REL450 Religion & Power in Colonial India
Hours 3
This course explores the ways Britons and South Asians imagined, debated, conspired, and coerced one another in the construction of "religion" during the colonial period of South Asian history.

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.

REL501 Social Theory and Religious Studies
Hours 3
This 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

REL503 Methods for the Digital Study of Religion
Hours 1
This graduate seminar introduces students to methods for the digital study of religion with a focus on the interfaces that enable computationally mediated scholarship. Students will tackle two core issues in digital scholarship: the development of computational research questions and the design and creation of digital text. Each student will develop a proof of concept for a computation-driven research question in their chosen field of study and a web page that introduces their project idea. The course is structured around a series of intensive, hands-on and collaborative workshops, the first focused on questions of computation and the second on web development.

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

REL511 History of Religious Studies
Hours 3
This graduate seminar surveys the origins, objects of study, and pivotal thinkers that scholars often highlight when outlining the historical development/current shape of Religious Studies. By course end, each student will narrate the study of religion in light of their own research interests.

REL512 Debates in Method and Theory
Hours 3
This graduate seminar will acquaint students with contemporary debates and authors, emphasizing the work of a newer generation of scholars, in order to consider more closely the tools that scholars use to study religion, the various contexts in which they carry out their work, and some of their wider implications.

REL521 Self & Society
Hours 3
This graduate seminar introduces students to terms and ideas related to constructions of the self and society and their relevance to the academic study of religion. Towards the end of the semester, a specific case study will serve as a site where students will apply theories discussed to analyze examples relevant in Religious Studies. Each student will also select an important work or issue 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.

REL522 Power & Persuasion
Hours 3
This graduate seminar introduces students to terms and ideas related to expressions of power and persuasion and their relevance to the academic study of religion. Throughout the course, a specific case study will serve as a site where students will apply theories discussed to analyze examples relevant in Religious Studies. Each student will also select an important work or issue 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.

REL523 Discourse & Practice
Hours 3
This graduate seminar introduces students to terms and ideas related to discourse and practice 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.
REL524 Past & Present
Hours 3
This graduate seminar introduces students to terms and ideas related to the construction of the past and its relation to the present 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.

REL525 Identity & Place
Hours 3
This graduate seminar introduces students to terms and ideas related to issues of identification and place and their relevance to the academic study of religion. Throughout the course, a specific case study will serve as a site where students will apply theories discussed to analyze examples relevant in Religious Studies. Each student will also select an important work or issue 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.

REL560 Independent Study in Social Theory in Religious Studies
Hours 1-9
This variable 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 1-9
This variable 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

REL565 Religion in Culture Applied
Hours 1-9
This course reflects the Department’s aim to help prepare students with a wide variety of research and professional interests for futures beyond their M.A. To that end, the Department has established relationships with a variety of offices on- and off-campus whose workplaces rely on the kinds of skills students learn in the M.A. degree program. When students sign up for this course, they will be assigned to a supervisor working in one of these professional settings. This assignment will consist of participating in at least five hours per week of hands-on training, while also applying the analytical and digital skills gained in their M.A. coursework. Various projects will be determined by the supervisor overseeing the graduate student’s work, in conversation with the Graduate Director. By the end of the semester, the student will have not only completed a number of site-specific tasks but also written at least one blog post for the Department’s website synthesizing their takeaways from the experience.

REL580 Academic Writing in the Study of Religion
Hours 3
The purpose of this seminar is to shape a piece of each student’s critical writing into publishable form. To this end the class will be run as a workshop, with the students’ own writing as the primary material. On days when there is focus on a single student’s essay, another class member will be assigned to present that essay to the class, by identifying its thesis, describing its situation in a larger critical field of religious studies, and outlining its argument. At other times students will be asked to bring in pieces of their essays for more intense focus. At the end of the class each student will submit their essay to a refereed journal in the academic study of religion.

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 1-9
This independent research course which partially fulfills required master’s-level thesis hours for students completing a formal thesis project as part of their degree program. The course is conducted under the guidance of the student’s thesis advisor. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field. Research projects will result in the production of an article length essay or equivalent digital project (as approved by the thesis advisor), as well as an oral presentation of the research. Students will meet regularly with the thesis advisor throughout the semester during which the course is undertaken.

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.
**RL518 Historical Linguistics**  
**Hours 3**  
Advanced introduction to various levels of historial 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 is 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.

**RL586 Pragmatics**  
**Hours 3**  
Broadly defined, pragmatics is the study of the use of language in context, including interlocutors, the time, place, and topic of the communication situation, and shared community rules for performing in an appropriate way according to the above parameters. During this graduate level introduction to pragmatics, some of the typical topics explore main theories around relating to others in socially and contextually appropriate ways, politeness, relevance, cooperation and taking turns in conversation, and cross-cultural and sociocultural variation.

**RL587 Bilingualism**  
**Hours 3**  
The majority of the world speaks more than one language. This linguistics course explores the myths and realities of being bilingual. Areas of study include how to define the term, bilingual first language acquisition, and other cognitive and/or psycholinguistic aspects regarding individuals who speak more than one language. This course also touches upon the best methods for conducting research on bilingualism.

**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.

RUS101 Elementary Russian I  
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  
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 aesthetics 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  
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 aesthetics 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  
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 aesthetics 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  
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 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

RUS224 Russian Literature in Translation II  
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 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 will not earn 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing  

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  
Directed readings.  

RUS402 Directed Readings  
Hours 1-3  
Directed readings.  

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  

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 sociological explanations, social change perspectives, and cultural complexity of social problems.  
Social and Behavioral Sciences  

SOC205 Social Psychology  
Hours 3  
Interrelationships between the individual and the group. Includes perception, cognition, attribution, attitudes, helping behavior, aggression, personal relationships, prejudice, and gender in social life.  

SOC215 Animals and Society  
Hours 3  
Explores the social relationship between humans and animals; 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  
Structural and cultural relationship of sport to society and the importance of sport to the development of self and community identity.  

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  
Examines the role of theory in sociology; focuses on the major contributions to sociological theory in both the classical and contemporary periods with an emphasis on historical context and philosophical backgrounds.  
Prerequisite(s): SOC 101  

**SOC305 Food, Culture, and Society**  
Hours 3  
Examination of food as a social construction; emphasis on food rituals, 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 social stratification and poverty; social mobility.  
Prerequisite(s): SOC 101  

**SOC360 Sociology of HIV/AIDS**  
Hours 3  
Social dimensions of HIV/AIDS; explores the social construction of HIV/AIDS in terms of gender, sexualities, race/ethnicity and social class.  
Prerequisite(s): SOC 101  

**SOC370 Sexuality and Society**  
Hours 3  
In-depth examination of human sexuality from a sociological perspective, analyzing how sexual behaviors and attitudes are shaped and influenced by larger society.  
Prerequisite(s): SOC 101  

**SOC390 Selected Topics In Soc**  
Hours 3  
Examination of selected problems and issues in sociology. May be taken a total of four times, with different topics.  
Prerequisite(s): SOC 101  

**SOC405 Gender & Society**  
Hours 3  
Sociological approach to the study of women and men; exploration of 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  
Examination of a variety of organizational failures and disasters; exploration of the major social and psychological factors that contribute to technical, practical, and ethical failures in organizations.  
Prerequisite(s): SOC 101  

**SOC460 Body and Society**  
Hours 3  
Social construction of the body; exploration of how the human body is socially, culturally, and politically constructed according to gender, race/ethnicity, occupation and social class.  
Prerequisite(s): SOC 101  

**SOC471 Medical Sociology**  
Hours 3  
Social issues relating to health, medicine, and society; how society shapes individual understandings of what it means to be healthy, produces differential patterns of health and illness, and how medicine is practiced in the United States.  
Prerequisite(s): Sociology 101  

**SOC480 Death and Dying**  
Hours 3  
Examination of death and dying from a sociological perspective; death as a social process that varies by culture, context and historical moment.  
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

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

SP201 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 102 with a grade of C- or better

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 with a grade of C- or better

Humanities

SP211 Honors Intermediate Spanish I
HU, UH
Hours 3
Honors Intermediate Spanish I, is the first course of the two-semester program of Honors Intermediate Spanish.

Prerequisite(s): A grade of C- or higher in SP 102; or the equivalent from another institution; or 3+ years of high school Spanish; or a 3 on the AP Spanish exam.

Humanities, University Honors

SP212 Honors Intermediate Spanish II
HU, UH
Hours 3
Honors Intermediate Spanish II, the second course of the two-semester program of Honors Intermediate Spanish.

Prerequisite(s): SP 211

Humanities, University Honors

SP352 Spanish Conversation
Hours 3
Spanish conversation.

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 with a grade of C- or better

SP354 Adv Grammar & Compositn
Hours 3
Adv Grammar & Composition.

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 Adv Grammar And Compos
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 with a grade of C- or better 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. This course contains a service-learning component. Service-learning is an education experience in which students participate in an organized service activity that meets identified community needs. It is a reflection on the service activity to gain further understanding of course content and an enhanced sense of civic responsibility. All students are expected to engage in a total of 15 hours of volunteering at a local health clinic or a related health fair activity. Your assistance in interpreting for a local health clinic such as the University Medical Center (UMC), Maude Whatley, or the Good Samaritan clinic will provide assistance that is necessary and crucial for the well-being of members of the Hispanic community.
Prerequisite(s): SP 353, SP 356 and SP 364 or 366 (Civilization) with a grade of C or better.

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.
Prerequisite(s): SP 353 and SP 356

SP366 Spanish-American Civ
Hours 3
Study of the development of Spanish-American civilization from pre-Colombian times to the present.
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 Lit 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.
Prerequisite(s): SP 353 SP 356 SP 364 or SP 366 or placement test Writing

SP372 Survey Of Spanish Lit 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 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 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 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 aspects that are instrumental in contextualizing the literary text. This is a Writing Course; therefore, writing proficiency 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 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 366 (or SP 364)  
Writing  
SP383 Linguistic Fundamentals of the Study of the Spanish Language  
Hours 3  
This course introduces students to the study of the Spanish language using modern methods of linguistic analysis in order to observe how the Spanish language is formed from sounds to words, and from sentences to social interactions. Taught in Spanish.  
Prerequisite(s): SP 353 and SP 356 or permission of instructor  
SP384 Spanish Pronunciation: From Theory to Practice  
Hours 3  
The purpose of this course is to provide students with the fundamental features of Spanish pronunciation. This includes an awareness of: the sound inventory of Spanish and its variants, the creation of syllables and assignment of word stress, and finally the production of a unique Spanish rhythm and intonation. Students are given basic linguistic tools of analysis along with practical guidance on how to improve their pronunciation in Spanish.  
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376 or SP 377  
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 "Outrechers" 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)  
SP426 20th Cent Spanish Lit II  
Hours 3  
Reading and discussion of complete texts representative of the literary movements of the period; lectures and reports. Offered in alternate years.  
Prerequisite(s): SP 353, SP 356 and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino Literature.  
SP430 Spanish Culture Through Film  
Hours 3  
In the Introduction to Spanish Linguistics we study the Spanish language using linguistic analysis in order to discover its underlying structure, which may be taken for granted when simply speaking the language. We examine several topics, including the sound system of the language (phonology), how words are formed (morphology), how phrases and sentences are created (syntax), and how words develop different meanings (semantics and pragmatics). In addition, we discuss other areas such as the evolution of Spanish from Latin, and language variation and change (dialектology and sociolinguistics). Taught in Spanish.  
Prerequisite(s): SP 353 and SP 356 or permission of instructor  
SP483 Intro to Spanish Linguistics  
Hours 3  
In the Introduction to Spanish Linguistics we study the Spanish language using linguistic analysis in order to discover its underlying structure, which may be taken for granted when simply speaking the language. We examine several topics, including the sound system of the language (phonology), how words are formed (morphology), how phrases and sentences are created (syntax), and how words develop different meanings (semantics and pragmatics). In addition, we discuss other areas such as the evolution of Spanish from Latin, and language variation and change (dialектology and sociolinguistics). Taught in Spanish.  
Prerequisite(s): SP 353 and SP 356 or permission of instructor  
SP484 Phonetics And Pronunciation  
Hours 3  
Introduction to Spanish phonetics with emphasis on the development of correct pronunciation and basic phonetic transcription.  
Prerequisite(s): SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376 or US Latino literature.
SP485 Open Topics in Linguistics
Hours 3
Topics vary. Sample topic History of the Spanish Language: 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 lead 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.
Prerequisite(s): SP 353 and SP 356 or permission of instructor

SP487 Open Topics in US Latino Studies
Hours 3
This course proposes an in-depth study of US Latino Literatures, Arts and Cultures. Topics may vary. It may be repeated for credit.
Prerequisite(s): SP353 SP356 and two of the following: SP371, SP372, SP375, SP376 or SP377 or permission of the instructor

SP488 Open Topics Sp Penin 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, SP 377.

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

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.

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 American 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 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.

SP537 Gender in Hispanic Works
Hours 3
This course offers a critical approach to Hispanic works by analyzing significant trends in cultural understandings and representations of gender in society. Repeatable 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.

SP581 Topics in Second Language Acquisition
Hours 3
Analysis of major issues, theories, research findings, and their implications for teaching. Examples: second language reading, classroom language acquisition, input/output, acquisition of pragmatics. May be repeated for credit.

SP584 Phonetics and Dialectology
Hours 3
Detailed examination of Spanish phonetics including dialectal 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.

SP586 Pragmatics
Hours 3
Pragmatics is the study of the use of language in context, including interlocutors, the time, place, and topic of the communication situation, and shared community rules for performing in an appropriate way according to the above parameters. During this introduction to pragmatics, some of the typical topics explore main theories around relating to others in socially and contextually appropriate ways, politeness, relevance, cooperation and taking turns in conversation, and cross-cultural and sociocultural variation.
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.

SP699 Dissertation Research  
Hours 1-15  
No description available

SWA101 Elementary Swahili  
FL  
Hours 3  
This course will emphasize the development of practical communicative ability in Swahili along with basic cultural knowledge of the areas where Swahili is spoken in Africa. Native speakers of this language are not allowed to take this course. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.

Prerequisite(s): SWA 101  
Foreign Language

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 114 or 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.

TH350 African American Experience in the Performing Arts
HU
Hours 3
This course will explore a wide range of performance art created by African American artists. The works examined will span from the early nineteenth century to modern contemporary works. Students will view the works of artists, as they have reflected on black identity and experience in theatre, musical theatre, dance and performance art. This course will explore the nature of representation in storytelling: Who tells the story? Why does it matter? How is power reinforced, resisted, subverted, or transformed by the telling and re-telling that occurs in the performing arts?

Humanities

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

TH395 Theatre Careers
Hours 3
This course provides an exploration and introduction to the business of being a professional theatre artist or practitioner.

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 120 or 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

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

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 complete designs 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

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.

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. May be repeated once for a maximum of 6 credit hours.
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. May be repeated once for a maximum of 6 credit hours.
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. This course is restricted to Seniors or by permission of the Instructor.
Prerequisite(s): TH 120 or TH 220
Writing

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. This course is restricted to seniors, or by permission of the Instructor.
Prerequisite(s): TH 120 or TH 220
Writing

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. May be repeated once for a maximum of 6 credit hours.
Prerequisite(s): TH 120 or 220 TH 115 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 Coaching
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

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.

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.

TH540 Stage Movemnt Phys Acting
Hours 3
An advanced course in Alexander Technique, body awareness, alignment, breathing techniques, physicalization, and physical characterization. May be repeated once for a maximum of 6 credit hours.

TH541 Advanced Scene Study
Hours 3
Advanced course in specific methodologies for character conception and projection. This course may be repeated twice for credit for a total of 6 hours, due to rotating theatrical material studied.

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. This class may be repeated once for credit, as the material performed will rotate through period and style.

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. May be repeated once for a maximum of 6 credit hours.
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

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.

TH567 Musci1 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.

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 1-10
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 Technology
Hours 3
A thorough study of the technical aspects of stage lighting, including electricity, optics, color, control theory; implementation and maintenance of lighting fixtures, cables, and control equipment; and a thorough understanding of stage lighting science, terminology, technique, and professionalism.

TH616 Lighting Design
Hours 3
An advanced course covering the theory and practice of lighting design for the theatre, with an emphasis on the design process and execution.
TH617 Projection Design
Hours 3
Provide the graduate level design and technical student an in-depth understanding of the design methods of stage projection, including workflow; generation/acquisition of imagery; visual effects; video production; video systems; hardware; surfaces; and control.

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/Alexander Technique, Clowning, Mask, Laban Movement Analysis, Stage combat, Mime, etc. May be repeated for credit for up to 6 credit hours as topics differ.

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 Advanced Teaching Practicum  
Hours 1-3  
This course provides comprehensive training and experience in aspects of teaching courses in theatre. The subject matter will include course planning, course development, course presentation, and course evaluations.  
Prerequisite(s): Permission of the Instructor

TH649 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.

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

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.

TH677 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.

THAI101 Elementary Thai
FL
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
FL
Hours 3
This course will emphasize the development of practical communicative ability in Thai along with basic cultural knowledge of Thai. The class has a supervised self-study structure. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs or computer video files) by themselves outside the class. Students have practice sessions three hours per week with a language trainer who is a native/near native speaker (or ACTFL advanced-high or superior level) of the language in 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 which will be sent to the director of the CLC. Regular class attendance and participation is required. Cultural aspects of Thai will be added to communication practice of Thai.
Prerequisite(s): THAI 101 with a grade of C- or higher, or passed the placement exam under supervision of the CLC director AND permitted by the director.

Foreign Language

THAI201 Intermediate Thai
Hours 3
Continuation of Thai language 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): THAI 102

THMT174 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.

THMT274 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

THMT301 Musical Theatre History I
HU
Hours 3
Musical Theatre History I (1840s-1943): This course offers students an opportunity to analyze the developmental history of the indigenous American art form of musical theatre. With a historical and ethical lens, students will explore the earliest origins and influences of musical theatre against the backdrop of a socially evolving and industrially developing American landscape pre World War II.

Humanities

THMT302 Musical Theatre History II
HU
Hours 3
Musical Theatre History II (1943-Present): This course offers students an opportunity to analyze the developmental history of the indigenous American art form of musical theatre. Through a historical and ethical lens, students will explore the development and influences of musical theatre against the backdrop of a developing American landscape post World War II.

Humanities

THMT374 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.

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
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.

THMT574 Musical Theatre Voice (Graduate)  
Hours 1  
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.

THMT674 Musical Theatre Voice (Graduate)  
Hours 1  
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  
FL  
Hours 3  
This course will emphasize the development of practical communicative ability in Turkish along with basic cultural knowledge of Turkey. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.  
Foreign Language

TURK102 Elementary Turkish  
FL  
Hours 3  
This course is intended for students who have already taken TURK 101. Native speakers of this language are not allowed to take this course. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.  
Prerequisite(s): TURK 101  
Foreign Language

TURK201 Intermediate Turkish  
Hours 3  
Continuation of Turkish language 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. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.  
Prerequisite(s): TURK 102

VIET101 Elementary Vietnamese  
FL  
Hours 3  
This course will emphasize the development of practical communicative ability in Vietnamese along with basic cultural knowledge of Vietnam. This course is for students with no prior knowledge of Vietnamese. Native speakers of this language are not allowed to take this course. The CLC classes are self-instructional and are best suited for highly motivated and disciplined students.  
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.

WS300 Studies in Gender and Sexuality  
Hours 3  
Students in the course will consider the description of gender and sexuality in popular culture, with the aim of understanding the relationship between both concepts. The goal is to follow up on the introduction to Women's Studies with more in depth analysis of how gender and sexuality are defined for individuals, in the law, and as a consequence of social change.  
Prerequisite(s): WS 200

WS310 Special Topics  
Hours 3  
Changing topics: for example, women and work, women in the world, social inequality.

WS323 Hate Crimes  
Hours 3  
What are the causes and consequences of bias-motivated crimes? What are the larger social and political contexts? In this class, students will examine how bias-motivated violence receives attention in the media, how and why hate crimes legislation came to be seen as a necessary legal tool to curb crimes based on race, gender, gender identity, religion, and sexual orientation. Students will also explore the opposition to such laws and the degree to which communities are able to respond to incidents of bias-motivated violence. Students will also explore the proliferation of hate groups and the impact of those groups on social and political debates over hate crimes laws.
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 multi-faceted 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".

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

WS345 Black Politics
Hours 3
This course examines the historical origins and present framework of Black politics, including the civil rights movement, Black political culture, local and community politics, and current and future issues for Black America such as Black imagery in television/film, Black feminism, sexuality, the War on Drugs, the impact of mass incarceration, and modern social justice and protest movements like #BlackLivesMatter. We will explore questions regarding the history of race in American political life as well as how race has shaped a broader national identity. We will evaluate what concepts like “equal treatment under the law” and “liberty and justice for all” mean with respect to the legacy of Black political participation.

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.

WS375 Freedom Beyond Rights
Hours 3
Feminism understands itself to be fundamentally liberatory - that is, concerned with increasing liberty, particularly (but not exclusively) of women. Feminist political theory often treats freedom within a liberal framework that prioritizes individual rights: for example, the right to control one's reproductive health, the right to equal pay, or the right not to experience harassment. According to this framework, to be free is to enjoy one's rights without interference or limitation. The aim of this course is to think about freedom beyond rights. Specifically, we will consider what it means to be a free political actor, whether freedom is the highest political good, whether, and how, freedom is compatible with other values, such as equality and justice, and how different kinds of politics, social norms, and modes of living might affect attempts to increase and experience freedom.

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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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 spectatorship. 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 background 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 a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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

WS436 Gender and Black Masculinity
Hours 3
This course will examine the socio-historical perceptions and constructions of Black masculinities in various regions and periods. Students 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. Students will be introduced to historical and sociocultural 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.

WS440 Seminar in Women's Studies
W
Hours 3
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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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

WS445 Seminar in the Study of Gender and Sexuality
Hours 3
Students will study the different approaches to the study of sexuality within the framework of the disciplines of Women's Studies and African American Studies. The focus is on understanding how gender and sexuality develop through intersectionality, contemporary popular culture, and/or through policy changes. International research in gender and sexuality studies is also a potential focus of the course.

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.
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.

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 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.

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.

WS518 Concepts in Social Theory: Approaches to the Study of Race
Hours 3

This course offers students an introduction to the main approaches to the study of race. Students begin by exploring the early approaches to sociology, both that of DuBois and the Chicago school. Students then develop an understanding of the work done by scholars in the Harlem Renaissance, the 1960s, and the contemporary period. The goal of the course is to provide students with the foundation for further research in the field of critical race theory.

Prerequisite(s): none.

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 subjectivites 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.

WS585 Special Seminar in the Study of Race, Gender, and Sexuality
Hours 3

This seminar is designed for the advanced study of race, gender, sexuality, and class. Students should expect to read the most complex of theoretical texts, a basic knowledge of some of the following: Hegel, Foucault, Marx, Liberal theory, Black feminist thought, feminist theory, critical race theory, psychoanalysis, and literary criticism is expected of each participant. The course will offer students the opportunity to develop their training in the topical area of choice by the professor.
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.

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): GBA 145 or GBA 146

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: CS 102, CS 285 and/or required computer training provided by LIFT program.

AC189 Honors LIFT - Class Leader
Hours 3
This course covers the same material as AC 188 but in a depth appropriate for honors students. 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: CS 102, CS 285 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. Students cannot receive credit for both AC 210 and AC 211.
Prerequisite(s): EC 110 or EC 112

AC211 Honors Intro To Accounting
Hours 4
This course covers the same material as AC 210 but in a depth appropriate for honors students. 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 or EC 112

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. Students are limited to two 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

AC311 Financial Reporting & Analysis of Business Activities II
Hours 3
Continuation of AC 310. Students are limited to two attempts for this course, excluding withdrawals.
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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 or permission of the instructor
AC351 Managerial Accounting Decisions
Hours 3
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

AC352 Corporate Financial Reporting
Hours 3
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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. Students are limited to two 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

AC371 Introduction To Taxation
Hours 3
Introduction to tax policy, planning, practice, and research with an emphasis on income taxation. Students are limited to two 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) 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): CS 285 and AC 310

Computer Science

AC415 Current Issues in the Accounting Profession
Hours 3
This course is for accounting students who are returning from a spring internship.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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. Students are limited to two attempts for this course, excluding withdrawals.
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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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

AC491 Independent Study
Hours 1-3
Accounting Independent Study. Students can apply a maximum of 3 credits of AC 491 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

AC492 Accounting Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. Students can apply a maximum of 3 credits of AC 492 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
AC497 Special Topics
Hours 1-3
Special Topics in Accounting. Students can apply a maximum of 9 hours of AC 497 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

AC501 Basic Acctng 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 Assessmt
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.

AC544 Financial Statement Analysis
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.

AC547 Data Analytics for Accounting
Hours 3
A study of applied data analysis with an emphasis on accounting and business settings. The course will focus on tools and techniques used to draw insights from and solve problems with data.

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.

AC556 Governmental Nonprofit Account
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 Taxn Corp 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 Adv 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
A study of the tax accounting problems relating to corporate organizations, commonly controlled corporations, and consolidated tax returns.

AC579 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 Res & Communicatn 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 Acctg Research
Hours 3
Study of the archival accounting research literature.

AC640 Experimental Acctg 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 Colloquim Series
Hours 1
Participation in a research colloquium series involving scholars from top academic institutions.

AC699 Dissertation Research
Hours 1-15
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. Under the guidance of their dissertation advisor, students conduct research toward the completion of their doctoral dissertation. Employing various research techniques and methodologies, students work on theoretical and/or applied research topics with the aim of making a novel contribution to the field.

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 126 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

EC111 Principles of Macroeconomics
SB
Hours 3
Introduction to macroeconomic analysis concentrating on national income, price levels, employment, monetary and fiscal policies, and international trade and development. Students are limited to three attempts for this course, excluding withdrawals.
Prerequisite(s): EC 110 or EC 112

Social and Behavioral Sciences

EC112 Honors Principles of Microeconomics
SB, UH
Hours 3
This course covers the same material as EC 110 but in a depth appropriate for honors students. It is an introduction to microeconomic analysis concentrating on consumer behavior, producer behavior, and market structure. All topics will be explored in more detail than EC 110, using math and graphic tools, additional readings and creative discussion sessions. Students are limited to three attempts for this course, excluding withdrawals. Students cannot receive credit for both EC 110 and EC 112.
Prerequisite(s): MATH 100 or 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; 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, University Honors
Course Inventory

EC113 Honors Principles of Macroeconomics
SB, UH

Hours 3
This course covers the same material as EC 111 but in a depth appropriate for honors students. Topics include national income, price levels, employment, monetary and fiscal policies, and international trade and development. All topics will be explored in more detail, using math and graphic tools, additional readings and creative discussion sessions. Students cannot receive credit for both EC 111 and EC 113. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): EC 110 or EC 112

Social and Behavioral Sciences, University Honors

EC308 Intermediate Microeconomics

Hours 3
Examination of the theory of price and the theory of resource allocation. Topics include demand theory, production and cost functions, pricing and output under competitive and noncompetitive conditions, resource markets, and rudiments of general equilibrium analysis. Students cannot receive credit for both EC 308 and EC 310.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

EC309 Intermediate Macroeconomics

Hours 3
A study of the theoretical framework underlying income, employment, and growth analysis. Students cannot receive credit for both EC 309 and EC 311.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

EC310 Honors Intermediate Microeconomics
UH

Hours 3
This course covers the same material as EC 308 but in a depth appropriate for honors students. It focuses on how economic agents make optimal decisions given scarce resources and technological constraints. Topics include consumer behavior, producer behavior, and market structure. Students cannot receive credit for both EC 308 and EC 310.

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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and ST 260

EC311 Honors Intermediate Macroeconomics
UH

Hours 3
This course covers the same material as EC 309, which is a study of the theoretical framework underlying income, employment, and growth analysis, but in a depth appropriate for honors students. Students cannot receive credit for both EC 309 and EC 311.

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 or 112) and (EC 111 or 113) and (LGS 200 or 201) and (AC 210 or AC 211) and ST 260

University Honors

EC400 Analysis of Economic Conditions at the Micro & Macro Levels

Hours 3
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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; and FI 302

EC410 Law And Economics
W

Hours 3
This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): EC 308 or EC 310

Writing

EC412 Industrial Organization

Hours 3
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 or EC 310

EC413 Economic Forecasting & Analysis
C

Hours 3
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 or EC 310) and (EC 309 or EC 311)

Computer Science
EC416 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): EC308 (Grade of C- or better) or EC 310 (Grade of C- or better); and EC309 (Grade of C- or better) or EC 311 (Grade of C- or better)

EC422 Urban Economics
Hours 3
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 308 (Grade of C- or better) or EC 310 (Grade of C- or better)

EC423 Public Finance
Hours 3
Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisite(s): EC 308 or EC 310

EC430 International Trade
Hours 3
Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.
Prerequisite(s): EC 308 or EC 310

EC431 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): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better); and EC309 (Grade of C- or better) or EC 311 (Grade of C- or better)

EC432 Development Economics
Hours 3
The course introduces students to the field of development economics. The course covers economic theory and empirical research about contemporary development efforts.
Prerequisite(s): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better)

EC460 Labor Economics
Hours 3
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 or EC 310

EC470 Introduction to Mathematical Economics
Hours 3
Application of selected mathematical methods to the analysis of economic problems.
Prerequisite(s): EC 308 or EC 310

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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

EC472 Financial Econometrics
Hours 3
In this course, we focus on the empirical techniques mostly used in the analysis of financial markets and how they are applied to actual data. We will begin with calculations and stylized facts of financial asset prices and returns. We next introduce statistical and econometric models to capture or reproduce these data features, mainly relying on time series models, estimations and tests. The first application is to apply these techniques to solve the practical financial issue of portfolio optimization. And then, we continue to time-varying asset returns to search for predictors of financial asset returns using CAPM model. To estimate the financial markets/assets fluctuations and the portfolio uncertainty, we start to learn conditional volatility models, including ARCH, GARCH, etc. Finally, from the perspective of risk management, we introduce the tools to estimate market risk of financial assets.
Prerequisite(s): EC 110 and EC 111; and EC 471 (Grade of C- or better) or EC 413 (Grade of C- or better)

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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

EC474 Experimental Economics
Hours 3
This course introduces students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
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 or EC 310

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 or EC 310

EC491 Independent Study
Hours 1-6
Students can apply a maximum of 6 credits of EC 491 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

EC492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. Students can apply a maximum of 3 credits of EC 492 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

EC497 Special Topics in Economics
Hours 1-3
Students can apply a maximum of 9 credits of of EC 497 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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.

EC510 Law and Economics
W
Hours 3
This course is for master's students in Economics or Finance. It provides students with tools of economic analysis and analytical methods to analyze legal issues and explore some of the intersections between the law and economics. Writing proficiency within this discipline is required for a student to receive 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 other course requirements.
Prerequisite(s): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better) or EC 508
Writing

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 Forecastg Analysis
C
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.
Prerequisite(s): EC413 (Grade of C- or better) or EC471 (Grade of C- or better) or EC 571
Computer Science

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): EC308 (Grade of C- or better) or 310 (Grade of C- or better) or EC508; and EC309 (Grade of C- or better) or EC 311 (Grade of C- or better) or EC509

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.
Prerequisite(s): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better) or EC 508

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.
Prerequisite(s): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better) or EC 508; and EC 309 (Grade of C- or better) or EC 311 (Grade of C- or better) or EC 509

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.

EC572 Financial Econometrics
Hours 3
This course is for master’s students in Economics or Finance. It provides students with analytical methods and programming skills for solving issues in financial economics, asset pricing, and risk management.
Prerequisite(s): EC 413 (Grade of C- or better) or EC 513; and EC 471 (Grade of C- or better) or EC 571

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.

EC598 Intro To Econ Research
Hours 1-3
Economics Research.

EC599 Thesis Research
Hours 1-15
Thesis Research.

EC600 Advanced Mathematical Economics
Hours 3
This is a course for incoming Ph.D. students in Economics, Finance, and Accounting. It aims to provide students with advanced mathematical tools needed to understand other Ph.D. courses in Economics and Econometrics. Topics include linear algebra, single/multivariable calculus, unconstrained/constrained optimization, and basic differential/difference equations.

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 Expand 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.
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.

EC674 Experimental Economics  
Hours 3  
This course introduces PhD students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results.

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

EC698 Research In Economics  
Hours 3  
Consists of supervised study and investigation of specific problems in economics and academics. Only open to graduate students beyond first year.

EC699 Dissertation Research  
Hours 1-15  
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. Under the guidance of their dissertation advisor, students conduct research toward the completion of their doctoral dissertation. Employing various research techniques and methodologies, students work on theoretical and/or applied research topics with the aim of making a novel contribution to the field.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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): (AC 210 or AC 211) and (EC 111 or EC 113)

FI331 Principles of Real Estate  
Hours 3  
Survey of various aspects of real estate business and economics, including marketing, finance, development, law, appraising, etc.  
Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  
Prerequisite(s) with concurrency: FI 302
**FI389 Financial Analysis and Modeling**  
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): (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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; and (FI 302 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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; 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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; and FI 302

**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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; and (FI 302 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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; and (FI 302 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 (Grade of C- or better)

**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  
Introduction to fundamental, research-based equity investing based on the core principles of value investing as developed by Benjamin Graham and practiced by Warren Buffett.  
Prerequisite(s): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and FI 302

**FI418 Advanced Value Investing**  
Hours 3  
Advanced case-study based course focused on continued development of fundamental equity-investing skills, including idea generation, business/industry research, financial statement analysis and company valuation.  
Prerequisite(s): FI 417 (Grade of C- or better)

**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): FI 302 and FI 414  
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
FI427 Probability for Actuaries

Hours 3

The purpose is to assist students in preparation probability exams by actuarial associations. Concepts are reviewed with an emphasis on working problems.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

Prerequisite(s) with concurrency: ST 454 (Grade of C- or better) or MATH 355 (Grade of C- or better)

FI428 Financial Mathematics for Actuaries

Hours 3

The purpose is to assist students in preparation for financial mathematics exams by actuarial associations. Concepts are reviewed with an emphasis on working problems.

Prerequisite(s): (MATH 126 or MATH 146) and (EN 101 or 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (EC 110 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

Prerequisite(s) with concurrency: ST 455 (Grade of C- or better) or MATH 451 (Grade of C- or better)

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): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better); and EC 309 (Grade of C- or better) or EC 311 (Grade of C- or better)

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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201)

Prerequisite(s) with concurrency: FI 331 (Grade of C- or better)

FI434 Real Estate Management

Hours 3

Study 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.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

Prerequisite(s) with concurrency: FI 331 (Grade of C- or better)

FI436 Real Estate Finance and Investments

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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

Prerequisite(s) with concurrency: FI 331 (Grade of C- or better) or FI 341 (Grade of C- or better)

FI440 Life Contingencies I

Hours 3

This is the first of a two-course sequence intended to prepare students for the Long-Term Actuarial Mathematics (LTAM) exam, which is required for actuarial certification by the Society of Actuaries. Concepts are presented with an emphasis on working problems.

Prerequisite(s): MATH 355 or ST 454 and FI 427 and FI 428

FI441 Life Contingencies II

Hours 3

This is the second of a two-course sequence intended to prepare students for the Long-Term Actuarial Mathematics (LTAM) exam, which is required for actuarial certification by the Society of Actuaries. Concepts are presented with an emphasis on working problems.

Prerequisite(s): FI 440

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 or EC 112) and (EC 111 or EC 113) and FI 341 and FI 302 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 or EC 112) and (EC 111 or EC 113) and FI 341 and (FI 302 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 or EC 112) and (EC 111 or EC 113) and FI 341 and FI 302 or CE 366
FI450 Loss Models I
Hours 3
This is the first of a two-course sequence intended to prepare students for the Short-Term Actuarial Mathematics (STAM) exam, which is required for actuarial certification by the Society of Actuaries. Concepts are presented with an emphasis on working problems.
Prerequisite(s): MATH 355 or ST 454 and FI 427
Prerequisite(s) with concurrency: MATH 451 or ST 455

FI451 Loss Models II
Hours 3
This is the second of a two-course sequence intended to prepare students for the Short-Term Actuarial Mathematics (STAM) exam, which is required for actuarial certification by the Society of Actuaries. Concepts are presented with an emphasis on working problems.
Prerequisite(s): FI 450

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 (Grade of C- or better), FI 360 (Grade of C- or better) and LGS 403
Prerequisite(s) with concurrency: FI 414 and FI 444

FI472 Financial Econometrics
Hours 3
In this course, we focus on the empirical techniques mostly used in the analysis of financial markets and how they are applied to actual data. We will begin with calculations and stylized facts of financial asset prices and returns. We next introduce statistical and econometric models to capture or reproduce these data features, mainly relying on time series models, estimations and tests. The first application is to apply these techniques to solve the practical financial issues of portfolio optimization. And then, we continue to time-varying asset returns to search for predictors of financial asset returns using CAPM model. To estimate the financial markets/assets fluctuations and the portfolio uncertainty, we start to learn conditional volatility models, including ARCH, GARCH, etc. Finally, from the perspective of risk management, we introduce the tools to estimate market risk of financial assets.
Prerequisite(s): EC 110 and EC 111, and EC 471 (Grade of C- or better) or EC 413 (Grade of C- or better)

FI491 Independent Study
Hours 1-6
Individually directed research and reading - Students can apply a maximum of 6 credits of FI 491 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

FI492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. Students can apply a maximum of 3 credits of FI 492 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

FI497 Special Topics In Finance
Hours 1-3
Topics may vary - Students can apply a maximum of 9 credits of FI 497 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

FI504 Financial Management
Hours 1-4
Corporate 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.
Prerequisite(s): EC 308 (Grade of C- or better) or EC 310 (Grade of C- or better) or EC 508; and EC 309 (Grade of C- or better) or EC 311 (Grade of C- or better) or EC 509

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 & Development
Hours 3
A study of the concepts and principles of real property valuation and the analysis of real estate investments.

FI572 Financial Econometrics
Hours 3
This course is for master’s students in Economics and Finance. It provides students with analytical methods and programming skills for solving issues in financial economics, asset pricing, and risk management.

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.

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.

FI698 Research In Finance
Hours 3
Consists of supervised study and investigation of specific problems in finance and academics. Only open to graduate students beyond first year.

FI699 Dissertation Research
Hours 1-15
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. Under the guidance of their dissertation advisor, students conduct research toward the completion of their doctoral dissertation. Employing various research techniques and methodologies, students work on theoretical and/or applied research topics with the aim of making a novel contribution to the field.
GBA146 Professional Development Series I: Exploring Your Path
Hours 1
This course is open to incoming Culverhouse College of Business freshmen and provides an introduction to the nature of higher education and professional development competencies. This course also provides an introduction to the functions, 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, acquire academic success skills, and adopt methods for being successful in college. The goal of this course is to equip each student with the basic skills necessary for degree attainment and provide an introduction to professional competencies for student development and career success.

GBA171 STEM Business Honors I
University Honors
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

GBA172 STEM Business Honors II
University Honors
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 businesses 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

GBA245 Professional Development in Business
Hours 2
This course also provides an introduction to the functions, resources, and activities of The University of Alabama and an introduction to professional development topics. This course is designed to develop a better understanding of the learning process, acquire academic success skills, adopt methods for being successful in college, and provide an introduction to personal and professional development topics. The goal of this course is to equip each student with the basic skills necessary for degree attainment and provide an introduction to professional competencies for student development and career success. This course is a mandatory course for distance learning students and a required elective for transfer students.

GBA246 Professional Development Series II: Choosing Your Path
University Honors
Hours 1
Building on the Freshman Compass course, this course will focus on choosing your path. Through this course, students will learn about professional interpersonal and team dynamics, how to work with others, self-awareness, professionalism, leadership skills. Through this course, students will learn how to choose their path through and after Culverhouse. Through the activities and topics in this course, students will continue to develop the professional competencies necessary for career success.
Prerequisite(s): GBA 145 or GBA 146

GBA271 STEM Business Honors III
University Honors
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

GBA272 STEM Business Honors IV
University Honors
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

GBA292 CBA Lower Division Internship
University Honors
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. This course is intended for Culverhouse College of Business lower division students.
Prerequisite(s): (GBA 145 or GBA 146) and GBA 246

GBA297 CBA Special Topics Lower Division
University Honors
Hours 1-6
This course offers faculty a chance to present topics of interest in the lower division to Culverhouse freshmen and sophomores.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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)

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.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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, dection, and follow-up.

Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

GBA346 Professional Development Series III: Pursuing Your Path

Hours 1

This course builds on the concepts from GBA 146, 245, and 246 and focuses on helping students pursue their path. The curriculum focuses on applying advanced professional development and leadership topics to cultivate a more prepared and well rounded student. This course focuses on the transition from the college environment to the workplace. Topics include: job negotiating process, resilience and grit (how to fail), strategies for communication, global engagement, and importance of a diverse workplace.

Prerequisite(s): GBA 246 or GBA 245

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

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.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

University Honors

GBA490 Strategic Management

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): (AC 210 or AC 211) and (EC 110 or EC 112) and (EC 111 or EC 113) and (LGS 200 or LGS 201) and ST 260 AND (MATH 121 OR MATH 125 or MATH 145)

Prerequisite(s) with concurrency: MGT 300 and MKT 300 and GBA 300 and OM 300 and FI 302

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. Students can apply a maximum of 3 credits of GBA 491 toward their degree.

Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MGT 300

GBA515 Effective Negotiations

Hours 3

This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.

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.

GBA571 STEM Business Honors VII

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.

HCA360 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 LGS 201 and ST 260)

Prerequisite(s) with concurrency: MGT 300
HCAN361 Healthcare Data Structures  
Hours 3  
This course aims to educate students on handling foundational analytic concepts and data structures germane to both privately own and government sponsored health care organizations.  
Prerequisite(s): HCAN 360  
Prerequisite(s) with concurrency: HCAN 362

HCAN362 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): HCAN 360  
Prerequisite(s) with concurrency: HCAN 361

HCAN463 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): HCAN 361 and HCAN 362  
Prerequisite(s) with concurrency: HCAN 464

HCAN464 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): HCAN 361 and HCAN 362  
Prerequisite(s) with concurrency: HCAN 464

HCAN465 Healthcare Analytics Project 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): HCAN 463 and HCAN 464

HCAN491 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.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MGT 300

HCAN492 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 or EC 112) and (EC 111 or EC 113)

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) 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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  
Prerequisite(s) with concurrency: IBA 350 (Grade of C- or better) or IBA 352 (Grade of C- or better)

IBA352 Honors Introduction to World Business  
Hours 3  
This course covers the same material as IBA 350 but in a depth appropriate for honors students. This course examines the conduct of business across national boundaries and the impact of different cultures on business practices. Students cannot receive credit for both IBA 350 and IBA 352.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  
University Honors

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.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
IBA460 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 (Grade of C- or better) or IBA 352 (Grade of C- or better)  

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. 2.500 GPA required. Students can apply a maximum of 3 credits of IBA 492 toward their degree.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

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. Students may apply a maximum of 9 credits of IBA 497 toward their degree.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

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.  

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.  

LGS201 Honors Legal Environment of Business  

UH  
Hours 3  
This course covers the same material as LGS 200, which studies environmental approach to the study of law, but in a depth appropriate for honors students. Topics include 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.  

University Honors  

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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

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.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

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.
Prerequisite(s): EC 110 or EC 112

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 EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
Prerequisite(s) with concurrency: MGT 300

MGT310 Practicum in Management
Hours 3
Students develop further knowledge, skills, and abilities in the functional areas of management introduced in MGT 300.
Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MGT 300

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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and (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 or EC 112) and (EC 111 or EC 113) and (AC 210 AC 211) and (LGS 200 or LGS 201) and ST 260

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) with concurrency: MGT 386 (Grade of C- or better)

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 386 (Grade of C- or better)
Prerequisite(s) with concurrency: MGT 387 (Grade of C- or better)

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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
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.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
Prerequisite(s) with concurrency: MGT 386

MGT414 Starting, Growing, and Harvesting New Ventures
Hours 3
First 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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
Prerequisite(s) with concurrency: MGT 386

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 (Grade of C- or better) and MGT 301 (Grade of C- or better)
**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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MGT 300

**MGT422 Leadership Communication**  
**Hours 3**  
Analysis of the role of communication in effective leadership for all management situations.  
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

**MGT423 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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

**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 (Grade of C- or better)

**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 (Grade of C- or better) and MGT 301 (Grade of C- or better)

**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 (Grade of C- or better)

**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 (Grade of C- or better) and MGT 301 (Grade of C- or better)

**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 (Grade of C- or better)

**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 EN 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (EC 110 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

**MGT456 Data Visualization**  
**Hours 3**  
This course is designed to teach students how to analyze data and communicate it visually with Tableau software.  
Prerequisite(s): (EN 101 or EN 120) and (EN 102 or EN 121 or EN 103 or EN 104) and (EC 110 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and GBA 300

**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 386 (Grade of C- or better)

Prerequisite(s) with concurrency: MGT 387 (Grade of C- or better)
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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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 (Grade of C- or better) and MKT 410 (Grade of C- or better)  
Prerequisite(s) with concurrency: MGT 387 (Grade of C- or better), MGT 388 (Grade of C- or better), and MGT 481 (Grade of C- or better)

MGT484 Small Business Management  
Hours 3  
Detailed review of aspects of managing and growing a small business, including evaluating and purchasing 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 (Grade of C- or better)  
Prerequisite(s) with concurrency: MGT 387 (Grade of C- or better), MGT 388 (Grade of C- or better), and MGT 481 (Grade of C- or better)

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 (Grade of C- or better) and MGT 484 (Grade of C- or better)

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. Students can apply a maximum of 3 credits of MGT 491 toward their degree.  
Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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. Students can apply a maximum of 3 credits of MGT 492 toward their degree.  
Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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. Students can apply a maximum of 9 credits of MGT 497 toward their degree.  
Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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.

MGT534 Training and Development  
Hours 3  
This course examines how organizations expend considerable sums to attract talented employees. Students learn how Training and Development helps employers to motivate employees and tailor their skills sets to organizational needs. The course will focus less on basic training methods and more on advanced topics in workforce development as well as making the case to skeptical executives on the value of these methods.  
Prerequisite(s): MGT 301

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 Work Flow 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.

MGT556 Data Visualization  
Hours 3  
This course is designed to teach students the principles behind analyzing data and communicating it visually with Tableau software.  
Prerequisite(s): GBA 300

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.

MGT597 Special Topics  
Hours 3  
This course is devoted to the study of current topics of interest in management.

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.

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  
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. Under the guidance of their dissertation advisor, students conduct research toward the completion of their doctoral dissertation. Employing various research techniques and methodologies, students work on theoretical and/or applied research topics with the aim of making a novel contribution to the field.

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.

MIS221 Business Programming I  
C  
Hours 3  
This course is an introductory business-focused computer programming course. The course provides students the opportunity to learn analytical problem solving techniques, software development techniques and the syntax of the # programming language to solve common business problems. Computing proficiency is required for a passing grade in this course. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): MATH 121 or MATH 125 or MATH 145 or MATH 126 or MATH 146 or MATH 227 or MATH 247  
Computer Science

MIS221 Business Programming II  
C  
Hours 3  
A second business programming course for students pursuing the Management Information Systems major. Computing proficiency is required for a passing grade in this course. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): MIS 221 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  
Computer Science

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. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): MIS 221 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) 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. Students are limited to two attempts for this course, excluding withdrawals.  
Prerequisite(s): MIS 221 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

MIS405 Enterprise Networking and Security  
Hours 3  
Data communications and networks; impact on business enterprises and issues pertaining to design and implementation. Security and operational requirements evaluated in multiple network architectural configurations.  
Prerequisite(s): MIS 221 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

MIS421 Enterprise Application Development  
Hours 3  
The study and application of advanced software engineering, application patterns, and file structures. Students design, construct and test software structures for effective information management.  
Prerequisite(s): MIS 321 and MIS 330  

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. Students are limited to two attempts for this course, excluding withdrawals.  
Prerequisite(s): MIS 330 and MIS 321  

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. Students are limited to two attempts for this course, excluding withdrawals.  
Prerequisite(s): MIS 430 and MIS 330  
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): (EN 101 or EN 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 or 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260; (MIS 200 or MIS 330) or Permission of Instructor  

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. Students are limited to two attempts for this course, excluding withdrawals.  
Prerequisite(s): MIS 430 and MIS 330  
Prerequisite(s) with concurrency: MIS 431  

MIS460 Applied Cyber Security  
Hours 3  
This course examines management issues and practical implications related to securing information systems. This course focuses on the Threat Environment, security Policy and Planning, Cryptography, Secure Networks, Access Control, Firewalls, Host Hardening, Application Security, Data Protection, Incident Response, and Networking and Review of TCP/IP. A clear theoretical understanding supports a large practical component where students learn to use contemporary security software to secure and assess information systems and network infrastructure using a hands-on approach.  
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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

MIS462 Behavioral Cyber Security  
Hours 3  
This course is intended to provide students with a solid foundation of information security management, with an emphasis on its human element. As part of this understanding, we will explore how humans, as employees of an organization and consumers of organizational products and services, perceive threats to themselves, their digital assets, their privacy, and to their organizational affiliations. We also explore how these perceptions are operationalized in their behaviors as organizational insiders, serving to either undermine or facilitate security management 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260  

MIS464 Organizational Security Management  
Hours 3  
The course is intended to teach students how to develop and apply an information security management plan to an organization. Topics include governance and security policy, threat and vulnerability management, incident management, risk management, information leakage, crisis management and business continuity, compliance management, and security awareness and security implementation considerations. Students will also be exposed to the national and international policy and legal considerations related to cybersecurity and cyberspace such as privacy, intellectual property, and cybercrime.  
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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260
MIS466 Introduction to Cybercrime and Digital Forensics
Hours 3
This course introduces the topics of cybercrime and digital forensics. Students will learn different aspects of cybercrime and methods to uncover, protect and analyze digital evidence. They will learn different types of software and hardware tools and use them to perform rudimentary investigations. Cybercrime and digital forensics are increasingly important areas of study. Students will also gain an understanding of evidentiary law from the perspective of first responders. Tools are becoming more powerful and attacks more sophisticated. Consequently, there is a growing need for graduates with the skills to investigate these crimes.
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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

MIS491 Independent Study
Hours 1-3
Students can apply a maximum of 3 credits of MIS 491 toward their degree.
Prerequisite(s) with concurrency: (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

MIS492 Internship
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public-sector organizations. Students can apply a maximum of 3 credits of MIS 492 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

MIS497 Special Topics
Hours 1-3
Special topics in MIS. Students can apply a maximum of 9 credits of MIS 497 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

MIS501 Application Development for the Data-Driven Organization
Hours 3
This course will highlight one or more core programming languages (e.g., Java, Python) used within modern, data-driven organizations for the purpose of data collection, manipulation, and analysis. The first portion of the course will focus on essential programming knowledge and practices. The second portion of the course will emphasize the development of programmatic solutions, which will acquire data (e.g., web content, social media data, geospatial data, sensor-based data) through the integration of APIs and/or web services as well as ethical scraping techniques and then store the data in a modern backend database.
Prerequisite(s): MIS 502 co-requisite

MIS502 Database Design and Management in the Data-Driven Organization
Hours 3
This course will cover the essentials of database design and management in modern, data-driven organizations. The first portion of the course will focus on relational database design as well as SQL for the storage and access of structured data. The focus of the second portion of the course will highlight modern database structures/systems (e.g., Apache Hadoop, graph databases) as well as their query languages for storing, accessing, and analyzing more unstructured data or data having relationships not easily queried by traditional databases. Additional topics may include data cleansing, query optimization, and extract-transform-load (ETL) processes.
Prerequisite(s): MIS 501 co-requisite

MIS505 Enterprise Networking and Security
Hours 3
Data communications and networks; impact on business enterprises and issues pertaining to design and implementation. Security and operational requirements evaluated in multiple network architectural configurations.

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.

MIS515 Intro to Application Development
Hours 3
This bridge course intends to introduce students into the basics of application development using Python programming language. Students will gain a fundamental understanding of contemporary application development using Python as the programming language. Students will gain proficiency in creating functional Python scripts to build variety of applications in the area of system development. Python provides a simple and versatile development environment suitable for projects ranging from simple scripting applications to large-scale enterprise applications. In addition to core programming fundamentals, the course will also incorporate system development best practices such as team collaboration, version management, documentations, unit testing, styles and standards. In the process, students will explore the multitude of standard libraries available in the Python development ecosystem to accomplish various problem-solving tasks.

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.
MISS20 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.

MISS25 Information 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.

MISS72 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.

MISS30 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

MISS31 Health IT
Hours 3
The fragmented healthcare environment is going through a profound shift in its approach to delivering better healthcare services through the implementation of healthcare IT (HIT). This course provides an overview of the healthcare environment and the role of HIT in enabling service delivery capabilities. Specifically, this course is designed to provide students with the knowledge and skill to understand the role of HIT in creating and managing the cross-continuum systems of care. Furthermore, the course prepares students with the knowledge and skills essential to managing HIT and its assimilation in the complex domain of healthcare.

MISS35 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

MISS40 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.

MISS41 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 data marts, and analytic procedures.

MISS60 Enterprise Integration Methods
Hours 3
Introduction to techniques and methodologies of enterprise-level governance, architecture, analysis, design, procurement, integration and deployment.

MISS61 Applied Cyber Security
Hours 3
This course examines management issues and practical implications related to securing information systems. This course focuses on the Threat Environment, security Policy and Planning, Cryptography, Secure Networks, Access Control, Firewalls, Host Hardening, Application Security, Data Protection, Incident Response, and Networking and Review of TCP/IP. A clear theoretical understanding supports a large practical component where students learn to use contemporary security software to secure and assess information systems and network infrastructure using a hands-on approach.

MISS63 Behavioral Cyber Security
Hours 3
This course provides students with a solid foundation of information security management, with an emphasis on its human element. As part of this understanding, we will explore how humans, as employees of an organization and consumers of organizational products and services, perceive threats to themselves, their digital assets, their privacy, and to their organizational affiliations. We also explore how these perceptions are operationalized in their behaviors as organizational insiders, serving to either undermine or facilitate security management practices.

MISS64 Organizational Security Management
Hours 3
The course is intended to teach students how to develop and apply an information security management plan to an organization. Topics include governance and security policy, threat and vulnerability management, incident management, risk management, information leakage, crisis management and business continuity, compliance management, and security awareness and security implementation considerations. Students will also be exposed to the national and international policy and legal considerations related to cybersecurity and cyberspace such as privacy, intellectual property, and cybercrime.

MISS66 Introduction to Cybercrime and Digital Forensics
Hours 3
This course introduces the topics of cybercrime and digital forensics. Students will learn different aspects of cybercrime and methods to uncover, protect and analyze digital evidence. They will be exposed to different types of software and hardware tools and use them to perform rudimentary investigations. Cybercrime and digital forensics are increasingly important areas of study. Students will also gain an understanding of evidentiary law from the perspective of first responders. Tools are becoming more powerful and attacks more sophisticated. Consequently, there is a growing need for graduates with the skills to investigate these crimes.
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 Behavioral and Organizational Theory and Design Research Seminar  
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.

MIS680 Research Seminar II  
Hours 3  
This doctoral research seminar will provide students with a strong foundation in the theoretical and methodological knowledge required to conduct rigorous security and privacy research projects that lead to manuscripts suitable for publication in leading journals. This knowledge is what we term "procedural knowledge" and, just as you cannot learn how to ride a bike by reading about it, students must engage in actual research activities to learn the requisite knowledge. In this course, students will first critically review security and privacy research publications from the leading MIS journals and then, based on those studies, conceive a full research project, including a relevant set of research questions and a research design appropriate to the questions.  
Prerequisite(s): MIS 670 or Instructor Approval

MIS685 MIS Research Design Seminar  
Hours 3  
This course is an examination of the process of designing and conducting research projects on information systems phenomena. Students will gain an appreciation for the challenges and issues associated with the application of different research methodologies to MIS phenomena.

MIS690 Research Methods Seminar  
Hours 3  
This seminar is a discussion of the basis and principles of systems modeling and the methods of social science research. The seminar also nurtures the motivation to become a contributor to the organizational sciences and information systems research communities by examining research processes, methodologies, and strategies, the information systems research context, concepts, theories, the application of systems modeling, and the nature of MIS research.

MIS699 Dissertation Research  
Hours 1-12  
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. Under the guidance of their dissertation advisor, students conduct research toward the completion of their doctoral dissertation. Employing various research techniques and methodologies, students work on theoretical and/or applied research topics with the aim of making a novel contribution to the field.

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): EC 110 or EC 112

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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

MKT337 Personal Selling
Hours 1-3
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) 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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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 (Grade of C- or better)
**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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

Prerequisite(s) with concurrency: MKT 337 (Grade of C- or better)

**MKT439 Sales Strategy**  
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 (Grade of C- or better)

**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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

Prerequisite(s) with concurrency: MKT 376 (Grade of C- or better)

**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 (Grade of C- or better) and MKT 476 (Grade of C- or better)

**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 (Grade of C- or better)

Prerequisite(s) with concurrency: MKT 473 (Grade of C- or better)

**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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

**MKT491 Independent Study**  
Hours 1-3

Students can apply a maximum of 6 hours of MKT 491 toward their degree.

Prerequisite(s): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

**MKT492 Internship**  
Hours 1-3

Students are selected through a competitive process for assignments in approved business or public sector organizations. Students can apply a maximum of 3 credits of MKT 492 toward their degree.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

**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): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and MKT 300

**MKT510 Product Design Marketing Strategy**  
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.
MKT511 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 cotermoinously 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.

MKT538 Sales Management
Hours 3

The Sales Management course builds on the basic sales process taught in Professional Sales by focusing on Account Management and Team Management.

Prerequisite(s) with concurrency: MKT 537

MKT539 Key Account Management
Hours 3

This course focuses on key account management from a foundations, technology, and real world perspective. The course will provide students a deep dive into how to best manage customer relationships to drive ongoing “customer success” with products that keeps customer buying and using products.

Prerequisite(s): MKT 537

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

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.

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 Consumer Behavior
Hours 3
This course will focus on exposing PhD students to academic research related to understanding how and why people consider, choose, use, and evaluate goods and services. 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 Quantitative Modeling in Marketing
Hours 3
This course covers multiple approaches to quantitative analysis of marketing data. Modeling skills are developed through analysis of actual data and examination of published applications. Analysis approaches include both dependence models, such as multiple regression and MANOVA, and interdependence models, such as factor analysis. Offered fall semester.

MKT690 Theory Development and Use
Hours 3
This course provides an overview of the role of theory in academic research. The course begins with an introduction of philosophy of science concepts and follows with discussions of what constitutes theory and the importance and role of theory in academic research. To provide students with an appropriate background, various theories are discussed in-depth throughout the semester along with applications of those theories in the literature. Offered every fall semester.

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
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. Under the guidance of their dissertation advisor, students conduct research toward the completion of their doctoral dissertation. Employing various research techniques and methodologies, students work on theoretical and/or applied research topics with the aim of making a novel contribution to the field.

OM300 Intro Operations Management
C
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. Computing proficiency is required for a passing grade in this course. Students are limited to three attempts for this course, excluding withdrawals.

Prerequisite(s): ST 260

Computer Science
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 using Microsoft Excel, SQL, and Python. Computing proficiency is required for a passing grade in this course. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): OM 300 and OM 305

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. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): OM 300 and OM 310 and OM 321 and OM 375

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. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

OM375 Statistical Quality Control

Hours 3

Statistical methods that can be used in control of quality in manufacturing or service industry. Topics include Shewhart control charts for variables and attributes; process capability analysis; acceptance sampling plans; design of experiments; total quality management; and six sigma principles. Emphasis is on understanding, design, implementation, and interpretation of these techniques. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): (EN 101 or EN 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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and OM 300

OM305 Information Technology for Operations Management

C

OM321 Prod Planning & Contrl

C

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. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): OM 300 and OM 305

OM305 Information Technology for Operations Management

C

OM321 Prod Planning & Contrl

C

OM375 Statistical Quality Control

C

OM375 Statistical Quality Control

C

OM375 Statistical Quality Control

C

OM418 Principles of Global Transportation Management

Hours 3

The course includes review of the key elements of transportation such as modes of transportation, transportation procurement, cost minimization techniques, international trade terms, and emerging techniques.

Prerequisite(s): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and OM 300

OM420 Computer Simulation

C

OM420 Computer Simulation

C

OM420 Computer Simulation

C

OM420 Computer Simulation

C

OM421 Business Analytics for Operations

Hours 3

This course aims to equip undergraduate business students with the fundamental concepts and tools for using data and analytics to solve operations management problems. Students use computer programming and software to manipulate data, conduct analyses, and develop models. This course also teaches Monte Carlo Simulation and Logistic Regression methods with applications on how these methods are used to address business problems. The ultimate learning outcome of this course is to learn how to develop a data-driven solution strategy for a complex business problem and use business analytics methods to generate actionable insights and recommendations to improve business operations or solve a particular problem. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): OM 305 and OM 375 and OM 310 and OM 321 and OM 375

Computer Science

OM421 Business Analytics for Operations

C

OM421 Business Analytics for Operations

C

OM421 Business Analytics for Operations

C

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. Students are limited to two attempts for this course, excluding withdrawals.

Prerequisite(s): OM 305 and OM 310 and OM 321 and OM 375
OM423 Inventory Management
Hours 3
The basics of inventory control techniques and the role of inventory management within an organization's overall supply chain. This course covers topics including inventory cost components, types and uses of inventory, the process of ordering, planning inventory levels, and metrics associated with inventory management. Students are limited to two attempts for this course, excluding withdrawals.
Prerequisite(s): OM 305 and OM 310 and OM 321 and OM 375

OM427 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): (EN 101 or EN 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 or 112) and (EC 111 or 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and 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

OM492 Internship In Operations Management
Hours 1-3
Students are selected through a competitive process for assignments in approved business or public sector organizations. Students can apply a maximum of 3 credits of OM 492 toward their degree.
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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

OM497 Special Topics
Hours 1-3
Operations Management special topics course. Students can apply a maximum of 9 credits of OM 497 toward their degree.
Prerequisite(s): with concurrency (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

OM500 MGT Science & Spreadsheet Mod
Hours 3
This course provides Operations Management concepts and applications in data-driven decision making. Emphasis is on data clean-up, data analysis, problem formulation, and interpretation of results using spreadsheet-based modeling and solution procedures including optimization and simulation approaches.
Prerequisite(s): ST 509 or ST 560

OM501 Advanced Applied Modeling and Analysis
Hours 3
Building on the foundations of spreadsheet modeling analysis, this course provides a deeper understanding of optimization and simulation. Course topics include discrete optimization, duality and sensitivity, large scale optimization, multi-objective optimization, dynamic programming, and Monte Carlo and process simulations with an emphasis on practical applications. In addition to spreadsheets, the students will learn specialty optimization and simulation software, including heuristic methods and algorithms. Extensive use of software.
Prerequisite(s): OM 500

OM506 Business Spreadsheet Analytics
Hours 1-3
This course provides Operations Management concepts and applications in data-driven decision making. Emphasis is on data clean-up, data analysis, problem formulation, and interpretation of results using spreadsheet-based modeling and solution procedures including optimization and simulation approaches.
Prerequisite(s): ST 509 or ST 560

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 six supply chain drivers (facilities, inventory, transportation, information, sourcing, and pricing). Students will develop analytical models and analyze the relationship between supply chain structure and performance through case studies and examples.
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
Principles, models, and techniques for planning, analyzing, and controlling inventory systems are discussed. Topics include in depth analysis of deterministic and stochastic inventory models and their applications. The limitations and usefulness of these models in practice are addressed.
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 concepts and quantitative techniques for analyzing procurement practices, selecting suppliers, managing supply risk, and improving operational procurement decisions.
Prerequisite(s): OM 500 or OM 506

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

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

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
ST260 Statistical Data Analysis

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

Computer Science

ST360 Intermediate Statistical Methods

Hours 3

This course provides a more in-depth exploration of statistical techniques including a much more focused review of inference. Additionally, 6 nonparametric alternatives to common parametric tests will be introduced as well as sampling concepts and basic linear models.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) MIS 200 and ST 260

ST440 Statistical Programming and Computing with R

Hours 3

This course explores the syntax of the R language and its capabilities for statistical data analysis, computing, and graphics.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

ST445 Introduction to Statistical Learning and Data Mining

Hours 3

This course offers an introduction to the field of statistical learning, an essential toolkit for making sense of vast and complex data sets.

Prerequisite(s): ST 452

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 454

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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and 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): (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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260 and (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

Students can apply a maximum of 9 credits of ST 497 toward their degree.

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 or EC 112) and (EC 111 or EC 113) and (AC 210 or AC 211) and (LGS 200 or LGS 201) and ST 260

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

ST540 Statistical Programming and Computing with R
Hours 3
This course explores the syntax of the R language and its capabilities for statistical data analysis, computing, and graphics.
Prerequisite(s): ST 260

ST541 Applied Statistical Modeling for Analytics I
Hours 3
Emphasis is on practical methods of statistical data analysis and their interpretation. Topics include simple and multiple linear regression, regression model interpretation, regression diagnostics, transformations on dependent and independent variables, regression inference, strategies for model building, methods for forecasting time series data. Extensive use of statistical software.
Prerequisite(s): ST 560

ST542 Applied Statistical Modeling for Analytics II
Hours 3
Emphasis is on practical methods of statistical data analysis and their interpretation. Topics include design and analysis of experiments (completely randomized design, randomized block design, factorial designs, 2^k fractional factorial designs, response surface optimization), multivariate inference, dimension reduction, classification, and clustering. Extensive use of statistical software.
Prerequisite(s): ST 541- Applied Statistical Modeling for Analytics 1 (or equivalent)

ST545 Introduction to Statistical Learning and Data Mining
Hours 3
This course offers an introduction to the field of statistical learning, an essential toolkit for making sense of vast and complex data sets.
Prerequisite(s): ST 450 or ST 550 or ST 560

ST547 Data Visualization and Analytics in R
Hours 3
Data visualization is one of powerful tools to explore and understand data. This course is intended to introduce students to useful visualization techniques for data exploration and presentation using the free and open-source R computer programming. Basic syntax and capabilities of the R language are also covered.
Prerequisite(s): ST 550 or ST 560
Prerequisite(s) with concurrency: ST 550 or ST 560 and Equivalent courses may also be considered; subject to program approval.

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.

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 colinearity. 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 540 or CHS 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.

ST645 Advanced Statistical Learning
Hours 3
This course offers theory, methodology and applications of modern statistical learning tools.
Prerequisite(s): ST 552, ST 553, and ST 554 Matrix algebra, Multivariate calculus, Statistical methods, Applied Multivariate Methods or permission of instructor.

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
College of Communication & Information Sciences Courses

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

APR221 Intro To Advertising
SB
Hours 3
A foundation course in advertising that includes historic and contemporary perspectives, advertising institutions and an overview of advertising theory, planning and practice. This course connects advertising strategies with an understanding of human behavior and key environments (i.e., social, economic, competitive, and regulatory) influencing consumer behavior. Key concepts and terminologies are covered, complemented by interactions with advertising faculty and industry professionals.

Social and Behavioral Sciences

APR231 Intro Public Relations
SB
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.

Social and Behavioral Sciences

APR241 Intro to Advertising and Public Relations
Hours 3
A foundation course in advertising & public relations that includes a comprehensive overview of historic and contemporary perspectives, advertising & public relations institutions, and advertising & public relations theory, planning and practice. Key concepts and terminologies are also covered, complemented by interaction with APR faculty and industry professionals whenever possible. The objectives of the course are to understand the following areas of advertising & public relations: the role of advertising & PR in an ethnically and diverse, global marketplace; research, planning, communication and evaluation; the strategies used in advertising & PR to achieve program objectives; the multimedia tactics required to implement advertising & PR programs in a digital environment; and the application of advertising & PR in the numerous venues of modern society, including corporations, agencies and nonprofit organizations. The course incorporates formal lectures, with guest speakers where appropriate.

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 administered 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 Intro to Audience Analysis
Hours 3
This course is designed to provide students with exposure to common primary and secondary research sources and tools used to draw meaningful conclusions about audiences. Students will learn how to critique, analyze and interpret data extracted from various sources in order to guide decision-making for programs and campaigns in advertising and public relations.

Prerequisite(s) with concurrency: CIS 260
APR290 Intro to Channels and Messaging  
Hours 3  
This course is designed to introduce students to the evolving landscape of paid, owned, earned and shared media channels available to advertising and public relations professionals, as well as how to develop persuasive, channel-specific messaging for various audiences.

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.  
Prerequisite(s): APR 260 or CIS 250; and APR 221 or APR 231 or APR 241

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): CIS 250 or APR 260

APR302 Advertising Strategy  
W  
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. Also emphasizes using research to effectively assess performance and competently develop an advertising plan. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): EN 101; EN 102 or EN 103; JCM 103; APR 221 or APR 241; APR 280; APR 290  
Writing

APR303 Public Relations Strategy  
W  
Hours 3  
This course is a hybrid class featuring asynchronous lectures and weekly in-class discussion and workshop sessions. The course develops the strategic thinking skills needed to plan and execute world class public relations campaigns and features a range of case studies that demonstrate key course objectives. This course emphasizes using research to effectively assess public relations situations. In addition, the course emphasizes developing practical writing skills required in the communications industry. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): EN 101 and EN 102 or EN 103; JCM 103; APR 280; APR 290  
Writing

APR310 Concepting  
W  
Hours 4  
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): APR 221 or APR 241; CIS 250 or APR 260  
Writing

APR320 Creative Thinking  
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  
W  
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 for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): APR 310  
Prerequisite(s) with concurrency: APR 410  
Writing

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): APR 310  
Prerequisite(s) with concurrency: APR 410
APR325 Social and Digital Media  
Hours 3  
This course is designed to develop a thorough understanding of digital and social media strategies and their application to all facets of various communication-based industries. Students will learn about how many areas of a business uses digital and social media to reach their target consumers. Students will also participate in practical and relevant projects within the digital and social media realm that will give them a better grasp of the material using real-world and relevant examples. This course will be dedicated to exploring the basic fundamentals of utilizing social media accounts for business, such as content planning, brand voice, the importance of video, influencer and ambassador marketing, and social analytics. This course will introduce to practical knowledge and analytical skills necessary to create, evaluate, and execute social media and mobile/digital campaigns. This course will also provide lectures, iconic and current case studies using social media and mobile and engaged activities that will help students in developing a strong social media skill set to take to future job and/or internship interviews in the students respective field of study.  
Prerequisite(s): APR 221 or APR 231 or APR 241

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 for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): JCM 303, APR 280 and APR 303 or APR 271

APR333 Digital Writing and Strategy  
W  
Hours 3  
This course is designed to provide students with skills and concepts to effectively create content across digital media platforms. Students will be introduced to frameworks and practices on content creation and strategy, along with tools on how to drive the development of future content through analytics. Emphasis will be placed on creating engaging content for target audiences that is written clearly and accurately. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): APR 325 and APR 303 or APR 271

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 or EC 112; 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 administrated by an on-campus faculty member. This course is graded on a Pass/Fail basis.  
Prerequisite(s): APR 301  
Prerequisite(s) with concurrency: APR 411

APR410 Portfolio I  
Hours 4  
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 310
APR411 Portfolio II
Hours 4
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 410

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 for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): Permission of instructor; APR 280 and APR 332 or APR 422 or APR 410 or APR 333

APR419 Concepting and Implementation
Writing
Hours 3
Offers 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 260 or CIS 250; APR 300; and APR 332 or APR 333 or APR 422

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): APR 302 or APR 270 and APR 280

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 280 and APR 302 or APR 303 or APR 270 or APR 271

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): APR 280 and APR 302 or APR 303 or APR 270 or APR 271

APR424 Advertising Campaigns
Writing
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): APR 422 or APR 322 or APR 323; and APR 451 or APR 452 or APR 453 or MC 401

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): APR 280 and APR 302 or APR 303 or APR 270 or APR 271

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): APR 280 and APR 302 or APR 303 or APR 270 or APR 271
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): APR 280 and APR 302 or APR 303 or APR 270 or APR 271

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): APR 302 or APR 303 or APR 270 or APR 271

APR429 Sport, Publicity and Promotion
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): APR 302 or APR 303 or APR 270 or APR 271

APR430 Advanced Digital Marketing
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): APR 333 or JCM 303

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 for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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 or EC 112) and APR 231 and APR 260 and APR 300 and APR 332 and JCM 103 and JCM 303 and MC 101

PR433 Public Relations Campaigns

W
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): APR 332 or APR 333; and APR 451 or APR 452 or APR 453 or MC 401

APR451 Business for Strategic Communicators

W
Hours 3
This course examines strategic communication in a business context. Key dimensions in business, including accounting, finance, strategic decision making, corporate reputation, transformation and governance, as well as research and measurement are covered. A variety of teaching/learning approaches—case studies, readings and lectures—are used to enhance understanding and increase student responsibility for learning. As in the real world, students will work under deadline pressures and against professional quality requirements.
Prerequisite(s): APR 302 or APR 303 or APR 270 or APR 271

APR452 Ethics and Professionalism

W
Hours 3
This course will teach students the roles of ethics and professionalism in contemporary advertising and public relations practice. The course explores steps toward professionalism in advertising and public relations practice, the roles of ethics in professional decision-making and contemporary ethical issues in advertising and public relations professions.
Prerequisite(s): APR 302 or APR 303 or APR 270 or APR 271

APR453 Investigation and Insights

W
Hours 3
This course is designed to provide students with advanced 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.
Prerequisite(s): APR 302 or APR 303 or APR 270 or APR 271

APR454 Consumer Psychology

W
Hours 3
A comprehensive study of behavioral models and concepts designed to help understand, evaluate, and predict consumer behavior. This course will deepen a student’s knowledge about consumer psychology and help them apply the knowledge from the perspective of a advertising and public relations professional. This course stresses analytical thinking about consumer psychology and prediction of how advertising and public relations tactics may influence demand for products and services.
Prerequisite(s): APR 302 or APR 303 or APR 270 or APR 271
APR455 Advanced Media Strategy
Hours 3

This course is designed to mentor advertising and public relations students with an interest in media strategy to participate in the Washington Media Scholars Foundation (WMSF) competition. The WMSF Media Plan Case competition is a national, multi-round competition where student teams of 2 develop a media plan to address a case scenario based on real-world data. Teams compete for a portion of scholarship monies as well as an all expenses paid trip to Washington, DC in June to present their work.

Prerequisite(s): APR 422

APR456 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.

Prerequisite(s): APR 332 or APR 333 or APR 422

APR480 Readings In APR
Hours 3

Required readings are determined in consultation with the faculty member overseeing the course.

APR490 Special Topics
Hours 3

Advanced seminars on topics related to the practice of advertising and public relations. Content will vary by semester.

Prerequisite(s): MC 101

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.

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.

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.

APR526 Advanced Media Research and Strategy
Hours 3

Students develop optimal media strategies to reach consumers in a complex media landscape, using advanced media and audience analytic techniques. Students complete sophisticated, research-driven media plans.

APR531 Creative Workshop I: Concepting
Hours 4

Students develop ideation skills and professional identities as either art directors or writers. Students acquire techniques and develop personal discipline inherent to the generation of novel, sophisticated creative work.

APR532 Creative Leadership
Hours 3

This seminar course is devoted to the exploration of leadership theories, strategies, and practices as they relate to supporting and enhancing the creative process within the advertising industry.

APR533 Creative Workshop II: Copywriting
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.

APR534 Creative Workshop II: Art Direction
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.

APR535 Portfolio I
Hours 4

This workshop course is devoted to the development and execution of portfolio pieces reflecting the pursuit of sound strategic and conceptual thinking. Student work is reviewed by a jury of creative professionals at an end-of-semester critique.

APR536 Portfolio II
Hours 4

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. The course also covers job search strategies and personal branding.
APR541 Digital Communication Strategy
Hours 3
This course introduces students to the core theoretical and practical approaches to managing social and digital media. Students will begin learning a skill set based on the demands of current industry practice that will allow them to strategically manage digital communications for organizations.

APR542 Writing for Digital Communication
Hours 3
This course is designed to provide students with skills and concepts to effectively create content across digital media platforms. Students will be introduced to frameworks and practices on content creation and strategy, along with tools on how to drive the development of future content through analytics. Emphasis will be placed on creating engaging content for target audiences that is written clearly and accurately.

APR543 Advanced Digital Marketing
Hours 3
This workshop-style course is designed to provide students with advanced practical, theoretical and analytical knowledge and skills required to successfully develop, monitor, and execute digital communication campaigns. Students will build upon their already-acquired 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.

APR550 Analysis and Insights
Hours 3
This course is 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.

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.

APR552 Quantitative Research Methods
Hours 3
This course exposes students to the main quantitative research methods required for analysis in social scientific research, whether academic or applied. Students learn the main quantitative methodological approaches from the field of communications, and also provides essential skills required for analyzing and tackling major research issues.

APR570 Ethics and Professional Leadership
Hours 3
This course is designed to acquaint students with the ethical and professional practice of advertising and public relations. 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, job etiquette, 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

APR584 Computational Research Methods
Hours 3
This course is designed to provide students with exposure to and the ability to enact computational approaches to research. It will introduce students to methods of data collection, management, analysis, and visualization using Python, arguably the most widely used general programming language for computational research, and R, a dedicated interface for computational data analysis. These two resources jointly represent the state of the art for computational research today.

APR590 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.

APR594 Comprehensive Exam Preparation
Hours 3
This course is designed for graduate students who have chosen to complete the comprehensive examination as their capstone experience for the degree.
APR596 Independent Study Research
Hours 1-3
This independent study course is designed to allow students to pursue independent exploration of a particular field or topical area, under the guidance of an advisor. Material covered will be of an advanced nature aimed at providing students with an understanding of current developments within the field. Discussion and advisor guidance will be focused on readings and methodologies that allow students to develop their research capacity, independent thought, and the ability to interpret professional and/or research materials in their field.

APR597 Campaign Research and Planning
Hours 3
Research and planning to develop an integrated communication campaign for a specific organization. This is the preparation stage for the campaign planbook prepared by the student for APR 598.

APR598 Non-Thesis Project
Hours 1-12
Development and presentation of an integrated communication plan or applied research project for a specific organization under the supervision of a committee. Integration of theory, concepts, and techniques in a complete communication program.

APR599 Thesis Research
Hours 1-12
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in advertising and public relations. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

BA205 Introduction to Book Arts
FA
Hours 3
This course will primarily focus on the history and appreciation of Book Arts traditions and contemporary practices, emphasizing the book as a form of cultural expression. Students will also receive exposure to hands-on technical instruction to understand the evolution of hand-bookmaking practices. Traditional papermaking, letterpress printing, and book binding techniques will be examined in relation to historic book production, modern hand-bookmaking practices, and artistic expression.

Fine Arts

BA520 Elements of Letterpress Printing
Hours 3
This course is devoted to the fundamentals of letterpress. Students will develop fine craft skills in a studio environment. Through hands on assignments, students will be introduced to hand setting type, press operation, and image making techniques. They will learn fundamental terminology, gain an understanding of the interaction of type, ink, and paper, and develop familiarity with the equipment. The emphasis is on fine printing and relief image making.

BA521 Letterpress and the Printed Book
Hours 3
Students in this course will build on their skills on the press through the production of two assignments, culminating in the design and production of a book project. This course is focused on typographic design, the intersection of text and image, and press work. Readings and discussions in this course will focus on typography and the hierarchy of information in the book format.
Prerequisite(s): BA 520

BA522 Advanced Projects in Letterpress
Hours 1-6
This course is devoted to book production. Students in this course will produce and refine a series of mockups before embarking on the production of an ambitious book project. While these book projects can take many forms, this course will center on artist books as a creative medium. Readings, discussions, and visits to special collections will help direct the course. Individual projects will be a catalyst for the refinement of skills on the press, including the production and use of polymer plates, setting type, press operation, and maintenance.
Prerequisite(s): BA 520 and BA 521

BA523 Artist Book and Fine Press Publishing
Hours 1-6
Students in this course will design and produce an ambitious, letterpress-printed book project. Students will refine their skills on the press as well as develop tactics for disseminating their work. A book produced in this course can be a stepping stone towards a career in book arts. Discussion and critique are foundational to this course. Class time will be spent on troubleshooting project issues, creating budgets for book projects, and developing an online presence for the marketing of books. A minimum of 3 credit hours is required when taken for the first time. After the initial 3 credits the course can be taken for variable credit and will contain unique content not covered in the initial 3 credit hours.
Prerequisite(s): BA 520, BA 521, BA 522

BA524 Artist Books
Hours 3
This course is devoted to the history, context, and production of artist books. It is also an opportunity to develop a habit of creativity. We will use the power of sequence and innovative book structure to complicate and deepen our creative work. Since the end of the 19th century, a wide spectrum of artists enlisted the form of the book as a means of creative expression. In this course, we will engage in creative mark-making, writing assignments, content-generation exercises, and bookbinding to facilitate the creation of a series of artist book projects. Our book production will be supplemented by readings and visits from guest artists and special collections librarians in order to provide a broad context for artist books. Books are interdisciplinary by nature, and this course can complement a wide range of interests, including photography, printmaking, painting, creative writing, architecture, libraries, graphic design, art history, zines, graphic novels, and many other topics.
BA530 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 Fundamentals of Case Binding and Edition Work
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.

Prerequisite(s): BA 530

BA532 Leather Bound Books
Hours 1-6
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. A minimum of 3 credit hours is required when taken for the first time. After the initial 3 credits the course can be taken for variable credit and will contain unique content not covered in the initial 3 credit hours.

Prerequisite(s): BA 530 and BA 531

BA533 Advanced Specializations in Bookbinding
Hours 1-6
This course is devoted to advanced techniques in hand bookbinding. Students will refine their binding skills while exploring methods for fine and design work. Readings and discussions will focus on sound binding practices, and the examination of both historic and contemporary book construction and design. An advanced final project will allow students to demonstrate their mastery of the materials and techniques presented in the binding I-IV course sequence. After the initial 3 credits the course can be taken for variable credit and will contain unique content not covered in the initial 3 credit hours.

Prerequisite(s): BA 530, BA 531

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.

Prerequisite(s): BA 530

BA541 History and Techniques of Hand Papermaking
Hours 1-3
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. After the initial 3 credits the course can be taken for variable credit and will contain unique content not covered in the initial 3 credit hours.

BA542 Contemporary Topics in Hand Papermaking
Hours 1-6
This course will focus on creative processes unique to hand papermaking that stemmed from developments and innovations in the field since the 1950s. Through lectures, readings, and projects, students will gain an understanding of paper as an activated entity that can stand alone or be integrated with other media in meaningful ways. Students will refine and expand on Western sheet formation skills through hands-on experience with processes such as pigmenting, pulp painting, and blowout. After the initial 3 credits the course can be taken for variable credit and will contain unique content not covered in the initial 3 credit hours.

Prerequisite(s): BA 541

BA592 Graduate Seminar
Hours 2,3
Through brainstorming, discussion, and writing, students in this course will develop the concept of and proposal for their Creative Thesis Project for the MFA Book Arts degree. This course will also guide students through the development of CVs, artist statements, workshop proposals, and a digital portfolio. A significant portion of the course will involve speaking to individuals practicing in the field and developing strategies for the business side of working as an artist. This course may be repeated for a maximum of six credit hours.

BA593 Workshops In Book Arts
Hours 1-3
Workshops covering all subjects in the book arts, held both on and off campus.

BA594 Pract Teaching Book Arts
Hours 1-3
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 Thesis Project
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.

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.

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.

Computer Science

CIS260 Intro to Consumer and Media Research Resources
C
Hours 3
Intro to Consumer and Media Research Resources is an introduction to the use of research by advertising and public relations professionals to help them make good decisions. The course has three primary modules – an introduction to basic research concepts and terms, initial hands-on experience with fundamental consumer and media research tools (Qualtrics, Simmons, Microsoft Office, etc.), and exposure to the concept of data storytelling. Computing proficiency is required for a passing grade in this course.

Computer Science

CIS295 C&IS Special Topics
Hours 1,3
Special topics in communication and information sciences. This course may be repeated up to six times for a total of six hours.

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.

CIS600 Prosem Communicatin 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 proseminar helps doctoral students explore methods and effective practices of teaching at the university level. Students examine how to employ different teaching modalities in an effort to engage students. Students discuss the varying teaching demands associated with class design (small classes, large lectures, and online courses). Students learn how to clearly communicate course expectations, deal with potential conflict, and construct and maintain a high level of professionalism. This one-hour proseminar builds on and extends the coverage of pedagogy provided in CIS 610 Foundations of Doctoral Study. It is recommended only for students who have completed CIS 610.

CIS602 Colloquium Comm Info Science
Hours 1
The course is part of 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 Cultural and Critical Theory in Communication
Hours 3
Survey of foundational cultural and critical theories in communication.

CIS606 Knowledge & Information Theory
Hours 3
This course offers a survey of theoretical developments in the study of knowledge and information.
CIS607 Theory Constructn Epistemology
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.

CIS650 Seminar: Communication & Information Sciences
Hours 3
Topics may 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.

CIS651 Interpersonal Approaches to Health Communication
Hours 3
This graduate seminar explores the major interpersonal issues related to health communication, focusing on both classical and contemporary perspectives.

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.

CIS656 Electronic and Contemporary Publishing
Hours 3
Focuses on both scholarly and commercial networked digital publishing within the context of the information cycle and information chain from the vantages of contemporary publishing and communication. The course is concerned with the numerous and varied problems/ opportunities of electronic publishing and the accompanying paradigm shifts.

CIS659 Health Information Seeking
Hours 3
Explores the major theories and issues related to health information seeking, focusing on the roles of mediated and interpersonal communication in seeking, understanding, and sharing health information.

CIS660 Interpersonal Communication Theory
Hours 3
This graduate course presents a focused investigation of communication in close personal relationships, with primary emphasis on foundational theories and concepts of relational communication.

CIS662 Mediated Interpersonal Communication
Hours 3
This graduate seminar provides an overview of research in foundational and contemporary mediated interpersonal communication relations, reviewing modern conceptions of interpersonal relationships, communication, and mediated communication from a wide breadth of disciplines.

CIS663 Deception
Hours 3
This course is designed to introduce students to research in interpersonal deception and to acquaint students with deceptive verbal and nonverbal behaviors and their motives and consequences, as well as with the research that has explored deception detection strategies.

CIS664 Health Communication Campaigns
Hours 3
This course covers the process of promoting health by disseminating messages through mass media, emergent media, and interpersonal communication. It covers the role of campaign designers in assessing consumer health needs and communication behaviors and in planning, implementing, and assessing campaigns.

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.

CIS666 Information Policy
Hours 3
Theoretical and research perspectives on information policy, the set of interrelated principles, laws, and regulations guiding the oversite and management of the information lifecycle through its production, collection, distribution, use, and preservation.

CIS667 Persuasive Communication
Hours 3
Study and analysis of the persuasive function of communication through theoretical and/or strategic approaches. May be repeated.
CIS668 Social Justice and Inclusion Advocacy  
Hours 3  
Theoretical and research perspectives in social justice and advocacy in information studies and related information disciplines. This course explores information structures, contexts, technologies, institutions, and policies as structures and sites of power that shape inequalities. Students investigate what socially-just outcomes and interventions might look like for communities, institutions, and individuals in the information studies context.

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.

CIS670 Health and Mass Media  
Hours 3  
This course covers basic concepts of health communication within a mass communication and communications context. It covers methods and theories used to study health communication, the effects of health messages in the media, the content of health messages in the media, influences on conceptions of health and illness, and crisis communication in a health context.

CIS671 Public Opinion  
Hours 3  
Study and analysis of the formation and expression of public opinion and its relation to communication. May be repeated.

CIS672 Media History  
Hours 3  
Historical investigations of communication through descriptive, evaluative, critical, and/or archival approaches.

CIS680 Seminar in Media Processes and Effects  
Hours 3  
Covers widely used and emerging theories employed to understand media processes and effects. Considers the implications of theory in designing and conducting research in media processes and effects.

CIS681 Advanced Quantitative Research Methods  
Hours 3  
Provides students an opportunity to understand and use advanced quantitative research methods widely used in the communication and information science disciplines.

CIS682 Seminar in Applied Communication  
Hours 3  
Covers widely used and emerging theories employed in the study of applied communication. Considers the implications of theory in designing and conducting research in applied communication.

CIS683 Advanced Topics in Media Processes and Effects  
Hours 3  
Covers topics especially relevant in the current academic study of media processes and effects, typically focusing on a single theoretical or contextual issue.

CIS684 Advanced Topics in Applied Communication  
Hours 3  
This seminar covers specific topics relevant to the current academic study of Applied Communication, typically focusing in-depth on one theoretical or contextual aspect. Topics will vary by semester.

CIS697 Directed Research  
Hours 1-3  
This independent study course is designed to allow doctoral students to pursue independent exploration of a particular field or topical area, under the guidance of an advisor. Material covered will be of an advanced nature aimed at providing students with an understanding of current developments within the field. Discussion and advisor guidance will be focused on readings and methodologies that allow students to develop their research capacity, independent thought, and the ability to interpret professional and/or research materials in their field.

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  
This independent research course partially fulfills required doctoral-level research dissertation hours toward the Ph.D. degree in Communication and Information Sciences. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a preexisting topic in the field.

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

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 various areas of significance in communication studies. Topics will vary, but the course may be attempted only once.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): COM 100

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 219 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 or COM 124

COM330 Family Communication: Strategies & Patterns of Interaction
Hours 3
This course examines communication strategies and patterns of interaction in intimate and enduring family relationships, including marital, sibling, parent-child, grandparent, and in-law relationships.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

COM342 Rhetoric Social Protest
W
Hours 3
Study of social protest discourse and how it functions rhetorically. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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 Organizatnl Communicatn
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.

COM366 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.

COM380 Influence
W
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

COM395 Special Topics
Hours 3
Reading, research, and discussion in areas of significance. Topics vary. May count as an elective in the major only once.
COM413 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 required for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

COM422 Communication and the Law  

Hours 3
This course introduces ancient rhetorical origins shared by communication and the practice of law and examines how contemporary communication theory informs the way legal systems work today. Students are given the opportunity to investigate a specific legal practice or phenomenon through the application of communication theory.
Prerequisite(s): COM 100 or COM 101

COM423 Practicum in Public Speaking Training  

Hours 3
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.

COM424 Communication & Forensics Pedagogy  

Hours 3
This class explores the relationship between forensics and academia, investigating the placement of competitive forensic activities within specific academic departments, the development of strong, competitive programs through responsible coaching, and the application of forensics experience beyond the competitive environment.

COM425 Gender & Political Communication  

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.
Prerequisite(s): COM 100 or COM 101

COM430 The Dark Side of Interpersonal Communication  

Hours 3
This course explores what happens in negative communicative interactions, including such "dark side" behaviors as secrets, deception, infidelity, narcissism, bullying, and relational violence, and what we can do to shield against them.
Prerequisite(s): COM 220 or COM 320

COM436 Independent Study  

Hours 1-3
This course is designed to allow eligible students to pursue independent projects or research under the direction of a faculty member. Students will be required to make a formal presentation of their work, as necessary to earning academic credit. If eligible, students may secure permission for this type of work only once.

COM440 Honors Seminar in Communication Studies  

UH

Hours 3
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 Adv Organization Communication  
W

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): COM 350
Writing
COM455 Leadership & Strategic Communication  
Hours 3  
This course focuses on the methodology and development of skills essential to leadership and strategic communication. It examines personal qualities that guide the most effective leaders and covers foundational principles of leadership communication.

COM460 Group Leadership  
Hours 3  
This course introduces several theoretical and applied leadership perspectives for developing effective communication in leading and working with diverse groups. The course is designed to help students critically examine how leadership theory and practice work across a multitude of organizational contexts. Students are exposed to contemporary professionals across various career sectors to examine how everyday leaders approach influencing individuals, groups and organizations.

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.

COM463 Relational Communication  
W  
Hours 3  
Focused investigation of communication in close personal relationships, with primary emphasis on contemporary concepts and theories of romantic relationships and friendships. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. W designation for university core curriculum.  
Prerequisite(s): COM 219 or COM 220  
Writing

COM465 Intercultural Communication  
W  
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): COM 100 or COM 101  
Writing

COM467 Seminar in 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 will vary, but the course may be attempted only once.

COM469 Communication & Gender  
Hours 3  
Explores the role of communication in the construction of gender. Covers theories of gender construction, as well as the roles of gender and communication in various relational contexts. (This is an approved course for the minor in women’s studies.).

COM480 Propaganda  
Hours 3  
This course explores contemporary theories and techniques of propaganda and their implications for communication practice.  
Prerequisite(s): COM 100 or COM 101

COM490 Field Exp. in Comm. Studies  
Hours 3  
Supervised field experience in communication studies. Must meet departmental requirements for eligibility to be approved for this course.  
Prerequisite(s): COM 100 or COM 101

COM495 Special Topics  
Hours 3  
Reading, research, and discussion in areas of significance. Topics vary. May count as an elective in the major only once.  
Prerequisite(s): COM 100 or COM 101

COM499 Capstone Seminar  
Hours 3  
The course is for majors only. It gives advanced students an opportunity to integrate and synthesize knowledge, reflect on the value of the major, and apply coursework to career and life goals.  
Prerequisite(s): COM 100 and COM 310; or COM 101 and COM 300

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 Introduction to Teaching Public Speaking  
Hours 1  
The primary goal of this course is to facilitate the instruction of COM 123 Public Speaking. Graduate students enrolled in this course will provide lesson plans for their classes and discuss options for improving classroom learning.

COM505 Introduction to Teaching in Communication Studies  
Hours 1  
The primary goal of this course is to facilitate the instruction of general education courses in Communication Studies. Graduate students enrolled in this course will provide lesson plans for their classes and discuss options for improving classroom learning.

COM510 Comprehensive Examination Preparation  
Hours 3  
This course is designed for graduate students in their final semester of study who have chosen to complete the comprehensive examination as their capstone experience for the degree.
COM513 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. Approved as a communication and culture 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.

COM522 Communication and the Law
Hours 3
This course introduces ancient rhetorical origins shared by communication and the practice of law and examines how contemporary communication theory informs the way legal systems work today. Students are given the opportunity to investigate a specific legal practice or phenomenon through the application of communication theory.

COM524 Communication & Forensics Pedagogy
Hours 3
This class explores the relationship between forensics and academia, investigating the placement of competitive forensic activities within specific academic departments, the development of strong, competitive programs through responsible coaching, and the application of forensics experience beyond the competitive environment.

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
Individualized research under graduate faculty supervision. Students who want to include this course in their Plans of Study to complete degree requirements must secure official approval from their faculty advisor and the department. No more than three hours of independent study may be applied toward degree requirements for the M.A. in Communication Studies.

COM541 Contemp Rhetoricl Theory
Hours 3
A survey of major contributions to rhetorical theory from the 20th century up to the present.

COM545 Classical Rhetoric 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.

COM560 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 in 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.

COM570 Foundations in Health Communication
Hours 3
This course focuses on the foundations for studying communication occurring in the professional and everyday practices of health and healing, including patient-provider relationships, health education, health care organizations, health and the body, and other political, cultural, and material forces that influence how we make sense of health.

COM571 Sem Organizatn Communcnt
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.

COM573 Methods of Community Engagement
Hours 3
This course studies the communicative processes and strategies for engaging with community stakeholders through research and experiential learning. Students are placed in an environment to practice application of these methods, to learn firsthand the effects of engagement communication models, and to experience the community building possible through careful communication.

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.

COM578 Critical Autoethnography
Hours 3
This course examines autoethnography as perspective, method, and content area, concentrating on writing as a method of knowing that privileges lived experience.

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*

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.

JCM102 Introduction to Media Content Creation
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.

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 Practices
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
C
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
W
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.

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.

JCM235 Social Media and Society
HU
Hours 3

This course provides a deep dive into the platforms, structures, cultures, and practices of the social media era, and it emphasizes the processes and practices of news and creative media industries and audiences, including the values, ethics, and aesthetics of the contemporary media environment. Social media are ubiquitous in our everyday lives, but now, more than ever, it is important to think critically about the ways they shape our media use, social interactions, and perceptions of the world around us. The course is divided into three parts: media industries, social audiences, and cultural trends. In the first part of the course, we'll take a close look at the practices, values, and ethics of platforms and media professionals. In the second part of the course, we'll examine social media audiences, with an eye toward developing a critical understanding of the media environment around us. Finally, the third part of the course will bring you up to speed on some ongoing cultural trends involving social media.

Humanities

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): JCM 103 and (JCM 180 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): JCM 303

Writing  

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  
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 course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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  
W  
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): JCM 303 with minimum grade of C-

Writing  

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 331

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 102 and MC 101  
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, enterprising 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 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 201

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  
W  
Hours 3  
This course is designed to learn 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. It is imperative to read all work by peers, reading assignments and participate in discussion. This is a Writing course. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Rubrics will be available for each assignment.  
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

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 201

JCM351 Videography for Digital Content  
Hours 3  
This course is designed to help students understand the elements of narrative, essentials of production, working with crew, understanding set structure, mastering multiple cameras, grip and lighting equipment, visual storytelling in multiple genres and media.  
Prerequisite(s): JCM 201

JCM354 Producing  
Hours 3  
Study of and practice in production techniques and skills used in organizing location shoots for television, film, documentaries, and commercials.  
Prerequisite(s): JCM 201

JCM356 Movie Marketing  
Hours 3  
This class will present the various strategies and tactics used in marketing movies to consumers.  
Prerequisite(s): JCM 100 or MC 101

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

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 or 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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 course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): JCM 212

JCM413 Gender, Music, and Pop Culture
W
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): JCM 212

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

JCM418 Black Cult Media
Hours 3
This course will help develop knowledge of the “cult film” as it has been understood and received historically and culturally. This course will provide strategies that mainstream understandings of cult film have constructed to exclude predominantly Black cast and Black themed films as well as their audience.
Prerequisite(s): JCM 100

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, enterprise 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 and JCM 331
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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 preparing a project for professional sound and picture finishing.
Prerequisite(s): JCM 202

JCM435 Sports Documentary
Hours 3
The course will give students a better understanding of the theory and practice of sports documentary production. Students will explore the contemporary development, its many genres, and the journalistic and ethical questions that arise in the production of sports documentaries. Students will also research and create mini-documentaries on sport-related topics.
Prerequisite(s): JCM 425 or JCM 351 or JCM 350

JCM436 Teaching Multimedia News
Hours 3
This course is designed to give students an overview of journalism and the process and pedagogy of instructing K-12 and college journalism classes.

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

JCM438 Directing
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

JCM441 Documentary Production
Hours 3
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 315

JCM444 Advanced Sports Writing & Reporting

W

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): JCM 325 Writing

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

W

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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): JCM 100 or MC 101 Writing

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 though 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 350

JCM451 News 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 303

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 Producing  
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

JCM458 Entrepreneurial Journalism  
Hours 3
This foundational course teaches the culture, practices and ethics of entrepreneurship applied to new, journalism-related ventures, with the aim of helping to preserve quality journalism amid industry disruption and shrinkage.
Prerequisite(s): JCM 303

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 202 or JCM 331

JCM466 Feature Film Writing  
W  
Hours 3
This course is designed to help students understand the elements of feature film writing in a 90-120 page format. Students will write a short film and expand the narrative into a feature. Students will do pre-writing such as character biographies, outlines, treatments, and look books to establish the overall vision of the feature script. Students will develop a writing process and will do extensive revision. Students will participate in workshops to critique peer work. All students will submit to the Holle Award for screenwriting. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): JCM 346 or JCM 347

JCM467 Representational Ethics in Film and TV  
Hours 3
This course is designed to explore the varied ways that race and gender intersect with the media industry. Time spent in class will largely consist of deconstructing a number of media industries, including film, television and digitized video, to show just how race and gender operate within media industries.
Prerequisite(s): JCM 212

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. 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. 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. 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  
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
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

JCM484 Sports Portfolio
Hours 3
This course is the most advanced skills course in the University’s sports media sequence. It draws heavily on the writing journalistic, production, and performance skills learned in prior classes. Students will enhance their video, writing and editing skills to produce a high-quality sports-related product.
Prerequisite(s): JCM 303 and (JCM 325 or JCM 425 or JCM 444)

JCM485 Community News in a Digital World
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

JCM489 Making Media Innovation
Hours 3
This course teaches a number of methods for testing news content to determine the effectiveness of that content. Students will learn when it is appropriate to use which methods, along with the limitations of each method, to create better information and storytelling for audiences and communities.
Prerequisite(s): 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 MC 101

JCM492 Media 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 212 or JCM 331

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 212 or JCM 331

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): JCM 212 or JCM 331

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 331
JCM497 Business of Film and Video
Hours 3
Students will explore and discuss project packaging, development labs, fundraising, budgeting, business plans, contracts, distribution platforms, self-distribution, and film festivals, among other topics. After completing this course, each student will have development and distribution strategies for a future and/or current project, as well as a solid foundational understanding of how to navigate the film and television industries.
Prerequisite(s): JCM 350 or JCM 351

JCM498 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 Digital News and Sports Capstone
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 331

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 media studies, and they become familiar with the department faculty's interests and expertise. Students will develop an overall research question and begin to work on a topic proposal.

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.

JCM522 Science and Environment in Popular Media and Culture
Hours 3
Students apply theoretical perspectives useful in understanding the role of entertainment media in public engagement with science. This course foregrounds the role of storytelling in science and environmental communication in both contemporary and emergent media.

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.

JCM535 Sports Documentary
Hours 3
The course will give students a better understanding of the theory and practice of sports documentary production. Students will research and create mini-documentaries on sport-related topics.

JCM536 Teaching Multimedia News
Hours 3
This course is designed to give students an overview of journalism and the process and pedagogy of instructing K-12 and college journalism classes.

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.

JCM544 Data Journalism
Hours 3
The course will teach students to tell stories using data and visualization techniques. The course will cover a variety of topics in pursuit of this goal, including data collection, data cleaning and manipulation, basic statistics, and data visualization.
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.

JCM551 News 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.

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 and Media
Hours 3
This course focuses on the study of the origin and development of journalism and mass media, covering major ideas and milestones and the individuals who have 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
This independent research course partially fulfills required master’s-level research thesis hours toward the master’s degree in Journalism. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

LS500 Information Science and Technology
Hours 3
This introductory course examines information science through conceptual foundations and historical underpinnings of the field as they relate to the nature and roles of information and information institutions. Students will learn fundamental approaches to understand the relationships between information and individuals, organizations, and society.

LS501 Information in Communities
Hours 3
This required course introduces students to values and ethics and power structures that impact information and information services to diverse communities. It serves as a foundation for broadly thinking about information, communities, power, and social responsibility of LIS professionals.

LS502 Research Methods
Hours 3
Introduces 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.

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 Modern Cataloging and Classification
Hours 3
Investigates approaches to current and historical methods for information organization by librarians, including emerging approaches to resource identification and description via linked data. Explores subject access in using traditional access tools, and contemporary issues in bibliographic control in the Web era.

LS507 User Centered Information Services
Hours 3
Introduces reference and instructional services in libraries.

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.

LS513 Professional Paths
Hours 3
This course introduces students to the variety of professional paths that an MLIS might pursue and will encourage students to explore the diversity of areas of library and information practice that may interest them. At the end of the course, students write an introduction to their program portfolio providing first attempts to define their own professional paths.

LS515 Information Ethics
Hours 3
This course provides students with the conceptual frameworks, methodologies, analytical approaches, and argumentation skills needed as information professionals to resolve complex ethical crises and dilemmas surrounding the use of information, data, and emerging technologies.
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.

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.

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
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.
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.

LS560 Information Technologies
Hours 3
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.

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.

LS564 Programming for Digital Libraries
Hours 3
Students learn basic programming concepts and skills for managing different types of content and developing interactive systems. PHP, as part of the "LAMP Stack" (Linux, Apache, PHP, Mysql) 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 PHP & MySQL, and students will gain understanding of basic programming syntax, data structures, and logic. Students will then learn how to develop web applications for more applied tasks, including data parsing and processing, and extending specialized PHP libraries for implementing further functionality of system components found in digital libraries.

LS565 Social Media and Informatics
Hours 3
This course explores the affordances of social software applications such as blogs, tagging, and online social networks and their functions in various work locales through the concepts of informatics. The focus of this course is on social software fluency for work and productivity.

LS566 Metadata & Semantic Web Fundamentals
Hours 3
Introductory course that examines conceptual and ethical foundations of metadata and Semantic Web information organizing methods in a range of practice contexts including library cataloging and special collections. Introduces data management software tools and techniques used for acquiring, cleaning, enhancing, and analyzing metadata datasets.

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.

LS568 Social and Technical Aspects of Cybersecurity and Terrorism
Hours 3
This course examines the history of cyber-related espionage and terrorism, explores websites and Web 2.0 media that support and fight against terrorism, and identifies human behaviors indicative of potential information and communication technology (ICT) interaction misuse. The focus of this course is primarily on human behaviors as they relate to ICT use and provides students with opportunities to identify and examine strategies to protect their organizations from misuse of technology systems and applications.

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.

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.

LS620 Graphic Novels in Libraries Serving Youth
Hours 3
Examines the ways in which graphic novels, comics, and other visual narratives serve as engaging and enriching media for contemporary youth (children and young adults); explores the use of these materials in classrooms and libraries to teach information, visual, and cultural literacies; and provides opportunities to explore and critically analyze visual narratives using multiple methods.

LS621 Intercultural Perspectives on Youth Literature
Hours 3
This course 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.

LS622 Leading Collaboration through School Libraries
Hours 3
A study of the theories and strategies related to instructional collaborations involving school libraries and media centers.

LS623 Issues in School Library Administration
Hours 3
A critical examination of issues related to social and cultural justice in the administration of school libraries and media centers.

LS653 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.

LS654 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.

LS655 Book Artifact Materiality Text
Hours 3
Examines the book as a physical artifact, as the material embodiment of text. Topics include the transitions between hand production and mechanical production, methods of bookmaking, printers and publishers, the alphabetic code, paratext, letterforms and typography, paper, page formats and layouts, illustrations, bindings, and other semiotic systems and bibliographic signifiers, as well as the purpose of the book with special emphasis on the relationships between meaning and physical form and the complex conventions of the book.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

MC430 Video Games and Media  
Hours 3  
This course provides a comprehensive overview of video game media as it pertains to students preparing for careers in the entertainment industry, news, creative media, computer programming and related careers. Video games are a globally relevant medium that entertain, educate, inform us; define and are defined by contemporary culture. The course will prepare students for developing projects that can be used as part of their professional portfolios as they prepare for their careers.  
Prerequisite(s): MC 101

MC431 Sports & Social Media  
Hours 3  
This course will focus on the connections and engagement of social media within sports communication. This will include topics such as personal/professional branding, audience analytics, media campaigns and messaging.  
Prerequisite(s): MC 101

MC446 Contemporary Issues in Sports Media  
Hours 3  
This course is designed to synthesize work in mass communication to be able to construct and critique arguments about modern sports media issues and controversies.  
Prerequisite(s): MC 101

MC495 Special Topics  
Hours 3  
Special topics in mass communication theory and research. May be taken for graduate credit.  
Prerequisite(s): MC 101
MC501 Mass Media Law Regulation
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

MC526 Race and Gender in 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.

MC530 Video Games and Media
Hours 3
This is an overview course that addresses game user research, theory and the ability to analyze for understanding usability, research, and play in the field, giving students an underpinning of the design and research approaches taken with video games. The course assists students who might employ the study of video games in health, advertisement, and journalism in their professional careers, and who may be expected to complete research relating to games.

MC531 Sports & Social Media
Hours 3
This course will focus on the connections and engagement of social media within sports communication. This will include topics such as personal/professional branding, audience analytics, media campaigns and messaging.

MC546 Issues in Sports Media
Hours 3
This course is designed to synthesize work in mass communication to enable students to construct and critique arguments about modern sports media issues and controversies.

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.

MC564 Sports Media Research
Hours 3
This course focuses on the descriptive and empirical ways to develop and evaluate research related to the sports industry, individual accomplishments, fan participation, and social media. Emphasis will be placed on the way that sports media has influenced contemporary culture and values.

MC595 Special Topics
Hours 3
Special topics in mass communication theory and research. May be repeated.

College of Community Health Sciences Courses

CHS101 Emergency Medical Services I
Hours 3
No description available

CHS220 Health Care in the United States
Hours 3
This course provides an overview of health care organization and delivery in the U.S. The course will examine the foundations of the health care system, system resources, processes within the health care system, outcomes, and the future of health care delivery. Current issues in health care including cost of health care, health care quality, and access to care will be analyzed.

Prerequisite(s): None

CHS224 Introduction to Population Health
Hours 3
An introductory course designed to teach learners to examine health issues from a population health perspective. Using real local and global health problems, students are introduced to evidence-based population health programs and policies that focus on closing the gap between science and practice.

CHS235 Health Equity in Healthcare Research and Practice
Hours 3
Empirical evidence demonstrates that structural inequalities and health disparities disproportionately affect historically marginalized populations in the United States. Increasingly, Public Health and Medical organizations have called on healthcare professionals to recognize these inequalities and actively work toward social justice and health equity in our research and practice. The goal of this course will be to provide students with the evidence-based knowledge and tools to understand and address health inequities in their research and practice.
CHS335 Population Reproductive Health
SB
Hours 3
An introductory undergraduate level course designed to teach learners to examine reproductive health issues from a population health perspective.

Social and Behavioral Sciences

CHS400 Rural Envir/Occup Health
Hours 3
Designed 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.

CHS420 Basic Epidemiology
Hours 3
A basic course in epidemiology designed for students in health or related fields which points out the population-oriented approach to epidemiology and shows how the methodology can be used to develop knowledge of disease etiology with application to the entire spectrum of health service.

CHS422 Community Clinical Proc
Hours 3
A combination of scheduled sessions and fieldwork. Field work includes visiting with assigned rural advisor, completing a rural community assessment, and assisting with community health screenings and education programs.

CHS423 Indep Stdy Community Med
Hours 1-6
An individual learning experience that involves the student in documentation of, evaluation of, and/or strategic planning for solving a community health problem.

CHS425 Biostatistics
Hours 3
Statistical methods and concepts particularly appropriate for biomedical research and health-related subjects.

CHS427 Health Policy & Planning
W
Hours 3
A problem-based learning seminar that introduces the student to the field of health policy and planning. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

CHS432 Comm Clinical Process II
Hours 3
Continuation of studies from CHS 422, including introduction to basic physical assessment techniques and continuation of a community project.

CHS442 Practical Issues Behav Medicin
W
Hours 3
Lectures and readings will examine behaviors that compromise overall health status (e.g., tobacco use, noncompliance) and behavioral aspects of specific medical conditions (e.g., heart disease, cancer, pain). Topics will include bioethics, racial/ethnic disparities and rural mental health issues. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

CHS450 Introduction to Fundamentals of Medicine I
Hours 6
Introduction to Fundamentals of Medicine I is an interdisciplinary course that provides a foundation for understanding the molecular and biochemical basis of cellular processes and whole body physiology, and initiates an appreciation for their impairment during various human diseases.

Prerequisite(s): Admission to Rural Community Health Program and Approval by the Instructor

CHS451 Introduction to Fundamentals of Medicine II
Hours 6
Introduction to Fundamentals of Medicine II is an interdisciplinary course that provides a foundation basic pharmacology and cellular physiology. The basic principles of pharmacodynamics and pharmacokinetics will be followed by an introduction to autonomic nervous system pharmacology that will serve as a basis for understanding the pharmacologic treatment of diseases.

Prerequisite(s): Admission to Rural Community Health Program and Approval by the Instructor

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.
CHS511 Introduction to Health Care Quality
Hours 3
This course provides healthcare practitioners and others with an introduction to the knowledge and skills needed to lead patient safety and quality improvement initiatives. Students will learn quality improvement concepts and techniques and will practice the techniques in teams. Students will achieve a familiarity with definitions and measures of quality health care in a variety of settings in addition to the public policy drivers of quality improvement. Interactive exercises and discussion will engage students in the challenges of behavior change and quality improvement and the role of public policy as a driver of improvement including financial incentives in public reporting. Students will review and create quality measures within their chosen field and develop a quality improvement project to improve a process or outcome. Assigned readings, video talks and lectures, online discussions, individual writing assignments, small group activities, and team projects will be used.

CHS512 Introduction to Medical Care
Hours 3
Overview of Medicine by organ systems: Cardiovascular, Endocrine, Gastrointestinal, Pulmonary, Central Nervous System, Musculoskeletal, Nephrology, and Reproductive Systems. Selected topics in Dermatology, Hematology/Oncology, Addiction and Alcoholism and Infectious Diseases.

CHS514 Disease Prevention & Care Management
Hours 3
This course focuses on the development of approaches for use by providing primary care to individuals across the lifespan with special emphasis on health promotion, disease prevention, risk reduction, and disease detection. Students will advance understanding of core concepts related to well-being in diverse populations, and will build on interprofessional collaborative practice principles. Students will also be introduced to public health issues on a global level, such as poverty, inequity, special populations, and disease and prevention patterns.

CHS515 Cultural Competency in Healthcare
Hours 3
The increasing cultural diversity in the United States has profound implications for population health science and practice. This course is designed to address a broad range of theoretical, research, ethical, and clinical issues related to cultural competency in healthcare.

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.

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.

CHS526 Healthcare Quality & Informatics
Hours 3
Students will become familiar with how electronic health record (EHR) data that can be used to participate in quality improvement and research. Class will involve exploring the structure of data generated by EHRs and understanding how to manipulate the data and operationalize it for quality reporting and research. The goal of the class will be for clinicians and managers to be able to produce data for MACRA, PCMH, and other common quality initiatives. In addition, those with a research focus will get a hands-on view of EHR data and how to use it to answer research questions.

CHS527 Health Policy & Planning
Hours 3
Designed to assist the student in understanding the planning process and factors that influence and determine policy decisions.

CHS528 Introduction to Qualitative Methods in Population Health
Hours 3
This course will provide an introduction to qualitative research methodologies as they are applied to the field of population health.

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

CHS550 Introduction to Fundamentals of Medicine I
Hours 6
Introduction to Fundamentals of Medicine I is an interdisciplinary course that provides a foundation for understanding the molecular and biochemical basis of cellular processes and whole body physiology, and initiates an appreciation for their impairment during various human diseases. The course will include an overview of the functional roles of various cellular constituents (e.g., protein, carbohydrate, lipid, nucleic acids) and the processes involved in their synthesis and degradation (e.g., thermodynamics, metabolic pathways, transcription/translation). This will involve not only an understanding of the mechanisms and pathways involved, but will also include an appreciation of their regulation/dysregulation during numerous perturbations of physiologic status (e.g., fed versus fasted, sedentary versus exercise) and disease states. IFM-I consists of a variety of instructional strategies (e.g., lectures, labs, small groups, team-based learning, self-study) to help develop critical thinking and problem solving skills, as well as build a knowledge base that is scientifically and clinically relevant to medical research and practice.
Prerequisite(s): Admission to Rural Community Health Program and Approval by the Instructor

CHS551 Introduction to Fundamentals of Medicine II
Hours 6
Introduction to Fundamentals of Medicine II is an interdisciplinary course that provides a foundation basic pharmacology and cellular physiology. The basic principles of pharmacodynamics and pharmacokinetics will be followed by an introduction to autonomic nervous system pharmacology that will serve as a basis for understanding the pharmacologic treatment of diseases. This course will also cover mechanisms of cellular homeostasis, transport, electrophysiology and communication, and will provide examples of disease states that result from abnormal functioning of these processes. This course consists of a variety of instructional strategies (e.g., lectures, labs, small groups, team-based learning, self-study) to help develop critical thinking and problem solving skills, as well as build a knowledge base that is scientifically and clinically relevant to medical research and practice.
Prerequisite(s): Admission to Rural Community Health Program and Approval by the Instructor

CHS561 Healthcare Finance and Reimbursement
Hours 3
This course covers 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. This course presents an overview of financial systems in health care so that students will be able to understand the broad financial context within which organizational decision-making occurs. Additionally, selected financial management topics will be covered with an emphasis on providing future managers with the tools required to carry out their fiscal responsibilities.

CHS563 Data Management
Hours 3
This course educate students on the basic tenets of relational databases, the components a database, and introductory-level querying through programming. These concepts will be taught through the lens of population health, and will show how many departments of health, health agencies, and large scale research studies store and retrieve data. The goal of this course is to introduce database management concepts to future analysts, thereby empowering their ability to effectively work with database administrators in their pursuits to generate tables for big data analytics. This course will use Microsoft SQL Server © to achieve its purpose and goals.

CHS591 Clinical Correlations and Study Strategies in Biomedical Science I
Hours 2
Application of biomedical principles in a clinical context. Introduction to clinical reasoning and study skills.

CHS592 Clinical Correlations and Study Strategies in Biomedical Science II
Hours 2
This course is designed to reinforce and develop foundational biomedical science concepts, learning and study skills, critical thinking, wellness, and clinical application skills crucial for success in medical school.

CHS595 Special Topics
Hours 1-3
Selected topics in Community Health Sciences offered by CCHS faculty members.
CHS599 Thesis Research
Hours 1-6
A candidate for the Master of Science in Population Health Sciences pursuing the thesis option is required to complete six credit hours dedicated to original research under the direction of a faculty advisory committee. A written thesis is required to be presented, defended orally, and submitted to the faculty advisory committee for approval. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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
This course will take an in-depth look at epidemiologic methods particularly as they relate to cardiovascular disease, cancer, and behavioral epidemiology. This is a second-level course on the conduct of epidemiologic research. It will focus on both the conceptual problems of applying the scientific/epidemiologic method and on the practical issues in carrying out of work.
Prerequisite(s): CHS 520

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.

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.
Prerequisite(s): CHS 525 or HHE 526 or BER 540 or NUR 581 or ST 509

CHS655 Population Health Applications (Non-Thesis)
Hours 3
The practicum is a planned, supervised, and evaluated work experience that compliments the student's classroom education, and allows them the opportunity to apply the lessons learned in their course work. The practicum experience is designed to enhance student's professional experience in the field of population health, and is key to a comprehensive understanding of population health in clinical settings. Success is defined by the exposure to valuable work experience, improvements in subject matter knowledge, mastery of specific competencies, and the development of relationships between the student, preceptor, and the site. The student is responsible for connecting with their peers, academic and professional networks to identifying and contact a suitable preceptor. The student is responsible for completing 120 hours under the guidance of their preceptor, and is required to document their completed hours on a regular basis. Only hours directly relating to the practicum learning objectives should be logged.
Prerequisite(s): CHS 524, CHS 525, CHS 520, CHS 527, CHS 510, and CHS 650

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

College of Education Courses

AEL520 Leadership for Communities
Hours 3
A study of individual and group leadership skills for purpose of addressing issues that impact student learning, engaging families in decisions at the school and district levels and building community support for schools.
Prerequisite(s): SPE 300 or SPE 500
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

AEL530 Introduction to Educational Leadership  
Hours 3  
This course is an introduction to leadership theory and practice. It focuses on both individual and group leadership skills and how they are used to affect student learning and the engagement of the broader learning community. The collaborative development of a school’s mission and the examination of the critical issues that school leaders commonly face will be examined.

AEL531 Evidence-based Decision Making  
Hours 3  
This course uses school performance data to illustrate the applicability of decision-making models for the resolution of school-based problems.

AEL532 Supervision and Mentoring  
Hours 3  
This course examines strategic approaches to instructional leadership, supervision and mentoring. The focus of the course centers on the knowledge base, the interpersonal and technical skills, as well as the mentoring proficiencies that is required of an instructional leader.

AEL533 Management and Strategic Planning  
Hours 3  
This course is a study of the theories, principles, and practices of managing an educational organization with an emphasis on the practical management of the local school. It addresses the role that instructional leaders play in advancing student learning through the effective, efficient, and equitable utilization of resources.

AEL534 Leadership and Organizational Theory  
Hours 3  
This course focuses on the analysis of concepts and issues related to the organization and administration of the school. The course is a general introduction to the study of educational administration that puts a focus on key leadership skills.

AEL535 Leadership of Curriculum and Instruction  
Hours 3  
This course is designed to prepare prospective educational administrators in the area of curriculum and instruction. The course focuses on research insights related to teaching and learning as well as on key principles and concepts for curriculum design, curriculum implementation and curriculum evaluation.

AEL608 Educ 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.

AEL611 Superintendency and the Leadership Team  
Hours 3  
An inquiry utilizing the perspectives of effective delegation and participation into the nature of the superintendency and the development of a leadership team.  
Prerequisite(s): None

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.

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.

AEL660 Major Issues and Trends in Educational Leadership
Hours 3
This course provides an advanced analysis of the current issues and trends commonly affecting the decisions of school leaders.

AEL664 Educational Policy and the 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.

AEL671 Survey of Instructional Supervision
Hours 3
A critical examination of research in supervision and leadership to improve instructional capacities and diverse student learning.
AEL675 Leadership for Organizational Improvement: Theory into Practice
Hours 3
This is a second-level course on organizational theory that is a continuation of the work begun in AEL 650. The course presents a deep exposure to the research literature on organizational theory, taken from various theoretical perspectives, with the expectation of fashioning a dissertation problem.

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.

AEL695 Sem Curriculum Leadership
Hours 3
An advanced seminar for students to explore, discuss, and interpret contemporary curriculum practice and research. Provides students with opportunities for critical inquiry into an area of specialized need and interest.

AEL697 Seminar in Educational Leadership
Hours 3
An advanced seminar for students to explore research in educational leadership and conduct critical inquiries into areas of specialized interest.

AEL699 Dissertation Research
Hours 1-12
Twelve semester hours (EdD) or 24 semester hours (PhD) required. Directed dissertation research in the area of educational leadership. Student must maintain continuous enrollment for a minimum of 3 semester hours per semester until the dissertation is completed. Enrollment is subject to program regulations and permission of the student’s dissertation committee.

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.

AHE503 Learning with Technology in Higher Education
Hours 3
This course provides students with an overview of the main issues surrounding the use of technology for the advancement of teaching in higher education settings. It includes some hands-on experiences designed to enhance the productivity and creativity of learning in both classroom and online environments.

AHE505 Grant, Project and Research Work in Higher Education
Hours 3
This course introduces students to the skills and knowledge necessary to conduct grant, project, and research work in higher education in the role of a principal investigator, research team member or supporting staff member.

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 Eductn
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.

AHE550 Financing Higher Eductn
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 Comparative Higher Education  
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.

AHE590 Independent Study in Higher Education  
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 in 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 Seminar in Higher Education  
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 and 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.

AHE610 Academic Culture and Learning  
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 Seminar in Institutional Research and Assessment  
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 Seminar in Academic Program Development and Evaluation  
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.
The purpose of this course is to provide students with skills that enable them to understand and synthesize current research in higher education.

This course is designed to provide overview of issues related to multiculturalism and diversity in American Higher Education and to help students learn how these issues influence higher education practices.

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.

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.

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.

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.

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.

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).

Designed to develop basic knowledge and skills for electronic instructional design - analysis, design, production, evaluation, and revision - for specific electronic projects.

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.

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.

Prepares students with knowledge and skills in modeling, simulation, testing, or analysis or training in real-world contexts using interactive multimedia processes.

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.

This course is designed to aid students in understanding and synthesizing research and developing theoretical approaches to the study of instructional technology.

Students will explore issues of diversity, inclusion, equity, and accessibility when designing and implementing learning technologies.

This course introduces learners to theories and models for managing technology as an instrument of change and performance improvement in schools and organizations.

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.

AIL695 The Dissertation in Nurse Education
Hours 3
This capstone course explores the writing of a dissertation in Nursing Education; including the organization of the argument, the framing of research questions, the description of field research, the analysis data, and the reporting and discussion of findings.

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.

BCE101 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.

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.

BCE516 Practicum Counseling II
Hours 3-6
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 516 and BCE 512

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.

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.

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

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 3-6
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.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCE633</td>
<td>Advanced Seminar</td>
<td>3</td>
<td>Seminars focusing on contemporary counseling issues and topics. Varied offerings.</td>
</tr>
<tr>
<td>BCE635</td>
<td>Teaching and Scholarship in Counselor Education</td>
<td>3</td>
<td>This course is designed for advanced counseling students who study teaching and scholarship in Counselor Education.</td>
</tr>
<tr>
<td>BCE636</td>
<td>Leadership and Advocacy in Counselor Education</td>
<td>3</td>
<td>The course is designed for advanced counseling students who study leadership and advocacy in Counselor Education.</td>
</tr>
<tr>
<td>BCE650</td>
<td>Couns Stratg Fam Relatns</td>
<td>3</td>
<td>Examination of theoretical and applied elements of systemic intervention with troubled families. Offered spring semester.</td>
</tr>
<tr>
<td>BCE652</td>
<td>Couns Stratg Adult-Child</td>
<td>3</td>
<td>Examination of theoretical and applied elements of intervention with discordant relationships between adults and children. Offered summer terms only.</td>
</tr>
<tr>
<td>BCE653</td>
<td>Intro Play Therapy</td>
<td>3</td>
<td>This course is an introduction to the use of play therapy. It includes the history of play as a therapeutic medium and the techniques a health care professional can use in practice.</td>
</tr>
<tr>
<td>BCE658</td>
<td>Couns Stratg Fam Relatns</td>
<td>3</td>
<td>Examination of theoretical and applied elements of systemic intervention with troubled families. Offered spring semester.</td>
</tr>
<tr>
<td>BCE698</td>
<td>Non-Dissertn Research</td>
<td>3-6</td>
<td>Directed research not related to dissertation research. Variable offerings.</td>
</tr>
<tr>
<td>BEF360</td>
<td>Social Psychol Foundtns Educ</td>
<td>3</td>
<td>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 idea of the social good shape distinctive philosophies of education.</td>
</tr>
<tr>
<td>BEF362</td>
<td>School, Culture, and Society</td>
<td>3</td>
<td>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 idea of the social good shape distinctive philosophies of education.</td>
</tr>
<tr>
<td>BEF483</td>
<td>Educational Policy and Reform</td>
<td>3</td>
<td>This course introduces undergraduate students to U.S. educational policy and reform by focusing on the relation of the public school to the state, on principles of education, and on the possibilities for reform. Students will analyze contemporary policy debates and reform efforts in view of philosophical perspectives, policy histories, and empirical support.</td>
</tr>
<tr>
<td>BEF484</td>
<td>Church, State and the American Public School</td>
<td>3</td>
<td>A critical look at the role of religion in public schooling, the separation of church and state in American education and educational policies relevant to the church, state, and education.</td>
</tr>
<tr>
<td>BEF485</td>
<td>Language, Politics, and Education</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>BEF486</td>
<td>Educational Policy Analysis</td>
<td>3</td>
<td>This is the capstone course for the Educational Policy Studies undergraduate minor. The purpose of this course is to have the students create a small research project that reflects on their learning from previous courses in the Educational Policy Studies undergraduate minor. Prerequisite(s): PSC 370, BEF 483, BEF 484, and BEF 485</td>
</tr>
<tr>
<td>BEF503</td>
<td>History Of Amer Educn</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>BEF504</td>
<td>Philosophy Of Educ</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>BEF507</td>
<td>Sociology Of Education</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>BEF510</td>
<td>Phil Hist Socl Founds Ed</td>
<td>3</td>
<td>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.</td>
</tr>
</tbody>
</table>
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.

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.

BEF587 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.

BEF638 Civil Rights, Law, and Equity in P-12 Education  
**Hours 3**  
This course introduces students to legal and policy initiatives aimed at expanding educational civil rights and limiting educational and social inequities. This course helps analyze key legal cases, especially decisions from the United States Supreme Court. The course also allows students to understand the social movements that have led to policies related to civil rights in education.

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 Leadershp  
**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.

BEF668 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.

BEF690 Seminar in Argumentation and Analysis in Social Theory  
**Hours 3**  
In this course, students will do a comparative reading of canonical texts in the field of social and cultural studies. Topics will vary semester to semester in order to make the course repeatable for credit.

BEF698 Non-Dissertation Research  
**Hours 1**  
Individual research in history, philosophy, or sociology of education.
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.

BEP220 Brain, Learning, and Cognition
Hours 3
The purpose of this course is to provide students with a comprehensive overview of the behavioral and neuroscientific aspects of learning, memory, and cognition.
Prerequisite(s): PY 101

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

BEP310 Lab-based Research Practicum
Hours 1-2
The goal of this course is to provide students with hands-on experiences in conducting educational neuroscience research.
Prerequisite(s): BEP 305

BEP330 Computational Methods in Educational Neuroscience
Hours 3
In this course, students will develop proficiency in the analysis skills needed to understand and manipulate neuroimaging data. Much of the focus will be on learning the fundamentals of MATLAB programming. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): BER 346 and BER 345

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

BEP350 Topics in Ed Neuro: Numerical Cognition
Hours 3
The goal of this course is to provide a comprehensive overview of the different areas of research in numerical cognition research and how they have shaped our approaches to learning and teaching mathematics.
Prerequisite(s): BEP 350 and BER 345 and BEP 305

BEP410 Topics in Educational Neuroscience: Scientific Thinking and Reasoning
W
Hours 3
In this special topics course, students will develop a deeper understanding of how educational neuroscience research can inform science instruction and learning. Writing proficiency is required for a passing grade. A student who does not write with the skill normally required for an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course. The written assignments of this course requires coherent, logical and carefully edited prose that will demonstrate students’ analysis and synthesis skills.
Prerequisite(s): BEP 305

Writing

BEP450 Topics in Ed Neuro: Moral Psychology & Ethical Development
W
Hours 3
What is morality? Would we all make the same decision in a moral dilemma? This course aims to help students answer these questions by providing an overview of the psychology of morality with a focus on the processes leading to moral action. Writing proficiency is required for a passing grade in this course. A student who does not write with the skills normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course. The written assignments of this course requires coherent, logical and carefully edited prose that will demonstrate students’ analysis and synthesis skills.
Prerequisite(s): BER 305

Writing

BEP460 Topics in Ed Neuro: Reading, Language and the Brain
W
Hours 3
This course will focus on the varied neuroimaging methodologies used by our Educational Neuroscience faculty. Faculty will present a different methodology in each iteration of the course; these methodologies include: EEG, NIRS, Eye-tracking and MRI. Please contact the department for information on semester specific course offerings. Writing proficiency is required for a passing grade in this course. A student who does not write with the skill normally required for an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course. The written assignments of this course require coherent, logical and carefully edited prose that will demonstrate students’ analysis and synthesis skills.
Prerequisite(s): BEP 305

Writing
BEP480 Neuroimaging

C
Hours 4
This course will provide students with an overview of the methods, experimental design, and analytical skills used in magnetic resonance imaging (MRI) and functional magnetic resonance imaging (fMRI) data, as well as how these methods are used in educational neuroscience. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): BEP 220
Computer Science

BEP490 Electrophysiology

C
Hours 4
This course provides an overview of electrophysiological methods used in the field of educational neuroscience to conduct research on learning and cognition. Students will also gain experience in the collection, analysis, and interpretation of electrophysiology data. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): BEP 220
Computer Science

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 3
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 Seminar in Learning and Cognition

C
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.

BEP545 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 will emphasize research trends, methods (e.g. MRI, EEG) and neuroscience theory (e.g. connectivity).

BEP550 Life Span Development

Hours 3
A study of principles and concepts of physical, cognitive, personality, and social development from conception through death.

BEP561 Social Cult Basis Behav

Hours 3
Provides fundamental knowledge regarding the methods in which social and cultural interactions and histories influence human behavior. Focuses on application of social psychology principles and multicultural issues to increase awareness and improve skills across a variety of social settings, including schools and human-service agencies.

BEP565 Personality & Social Dev

W
Hours 3
Examines the major theories of personality and social-emotional factors as they impact on the learning process and educational practice. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

BEP570 Foundations of Educational Neuroscience

Hours 3
A survey of main issues and topics in educational and cognitive neuroscience, cognitive science, and learning sciences. The course is open to all graduate students from any program.

BEP598 Non-Thesis Research

Hours 1-6
Research conducted by student.

BEP599 Thesis Research

Hours 1-6
Research conducted by student for thesis.

BEP600 Contemp Educ Psych Prob

Hours 3
Thorough exploration of current problem areas in education and the impact and perspectives of educational psychology.

BEP601 Family, School, and Community Relationships

Hours 3
Provide candidates with a strong foundation for understanding family, school, and community partnerships, and to build their abilities to put this knowledge into practice within their own school settings.

BEP641 Seminar in Learning and Cognition

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.

BEP650 The Psychology of Morality

Hours 3
An overview of the psychology of morality with a particular focus on the processes leading to moral action. Specialty topics include measurement, gender, cross-cultural, and educational issues. Character education will be discussed with special attention to the empirical and theoretical background of current character education programs.

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 will emphasize research trends, methods (e.g. MRI, EEG) and neuroscience theory (e.g. connectivity).
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  
An advanced seminar covering special topics in Educational Psychology.

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.

BER340 Introduction to Qualitative Research  
Hours 3  
This course is an introduction to qualitative research that centers on discussions related to the application of qualitative research methods and an understanding of the issues involved in qualitative research ethics, design, analysis and writing. The course is organized into five major emphases: An introduction to qualitative research; the researcher as part of qualitative research; role of theory in qualitative research; conducting qualitative research; and ethical implications.

BER345 Educational Statistics  
Hours 3  
Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

BER346 Experimental Methods in Educational Neuroscience  
Hours 3  
The purpose of this course is to provide a comprehensive overview of experimental design and methodologies within cognitive psychology and neuroscience, as well as interdisciplinary methods within educational neuroscience. Students will learn the basics of experimental design, how to read research articles, communicate research to others, construct literature reviews and generate proposals.

Prerequisite(s): BER 345

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.

BER500 Intro Educatn Research  
Hours 3  
An overview of research methodology, primarily for master’s students. Offered fall, spring, and summer semesters.

BER540 Statistical Methods In Educ  
Hours 3  
This three-hour course covers basic descriptive and inferential statistics, including measures of central tendency and dispersion. Hypothesis testing related to one-sample z-and t-test; independent and dependent samples t-test; correlation; and chi-square and simple regression are included. An introduction SPSS is required. Offered fall, spring, and summer semesters.

BER550 Eval Classroom Learning  
Hours 3  
A comprehensive contemporary approach to the development, application, and interpretation of teacher-made classroom assessments; use of text book 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 Introduction to Psychometrics Theory  
Hours 3  
The purpose of this master’s level course is to help graduate students develop a scholarly way to think, reflect on, and critique extant research and theory in education through the lens of psychometrics. The following major topics will be explored: Overview of the history of psychometrics and theories of measuring psychological constructs; validity, reliability and fairness.

Prerequisite(s): BER 540

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

BER610 Professional Seminar in Educational Research  
Hours 3  
This graduate seminar course serves to introduce students in Educational Research to knowledge, skills, and dispositions that will help them become successful graduate students, scholars, and practitioners. As such, this course will engage students with topics of relevance to their personal, scholarly and professional trajectories.

BER630 Qualitative Case Study Research Methods  
Hours 3  
The course examines case studies of individual practices, discrete institutions and organizations, as well as state-level policies while also exploring the research methods used to inform the production of case study representations and the the various styles used in case study writing. Offered summer term.
BER631 Inqy As Interp: Qual I
Hours 3
Examines the history and philosophy of naturalistic studies of human experience. Concentrates on post-positivist, 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
This course examines the irony and ideology of naturalistic studies of human experience. It focuses on the epistemic limits of any method of research representation, and the political and ethical implications of those limits. 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 arts-based research and its place in/against the field of qualitative research. Further, it engages students in readings that span the breadth of arts-based research practices, while cultivating opportunities for students to become arts-based research practitioners.

Prerequisite(s): BER 631 or equivalent

BER639 Applied Regression Analysis
Hours 3
This course will help students better understand how to conduct and interpret analysis for educational research. Students will learn how to estimate different types of regression models, interpret the results and draw meaningful and substantive conclusions. Although mathematical foundations will be explored, the course will focus primarily on the conceptual and applied aspects of regression analysis.

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

BER643 Multivariate Statistics
Hours 3
This course is designed to introduce students to the various types of multivariate statistical techniques used in education, health and the social sciences. Multi-variate statistics focus on two or more dependent variables with one or more independent variables. Computer applications are included to facilitate the understanding and interpretation different multivariate statistical techniques.

Prerequisite(s): BER 540 and BER 640 and BER 642
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 Modelling
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

BER647 Experimental Research Design Single-Case Research
Hours 3
This course will introduce basic single-case research design principles and strategies that can be used in research in educational and other applied settings. The purposes of the course are to provide students with an understanding of potential applications of single/within case research strategies, a working knowledge of commonly used single-case research designs and strategies for evaluating single-case research outcomes.
Prerequisite(s): BER 540

BER648 Advanced Structural Equation Modeling
Hours 3
This course is designed to introduce students to the various advanced structural equation modeling applications that are typically not covered in basic SEM course. The topics covered in the course include Non-Linear SEM, advanced confirmatory factor analysis techniques, Mixture Modeling (Latent class Analysis, Growth Mixture Models, Latent Transition Models), data imputation and Monte Carlo Simulation.
Prerequisite(s): BER 641, BER 642, and BER 646

BER657 Applications of Psychometric Theory
Hours 3
The purpose of this doctoral level course is to help graduate students develop a scholarly way to think, reflect on, and critique extant research and theory in education through the lens of psychometrics. The following major topics will be explored: Overview of the history of psychometrics and theories of measuring psychological constructs; validity, reliability and fairness.
Prerequisite(s): BER 540

BER658 Psychometric Theory Practicum
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 principals 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

BER663 Casual Inference
Hours 3
This course introduces the statistical theory that guides the design and analyses of experiments and quasi-experiments. Specifically, this course will provide conceptual, technical, and hands-on training in a) the design and analyses of multi-level/longitudinal randomized controlled trials (RCTs); b) propensity score analysis and related methods; c) instrumental variables analysis; d) difference-in-difference analysis and related methods including fixed effect models, comparative interrupted time-series analysis and synthetic control; e) recent development of application of matching learning techniques in casual inference.
Prerequisite(s): BER 640 or equivalent

BER664 Multi-Level Modeling with Applications for Large Scale Data Sets
Hours 3
This course provides an introduction to multi-level models (MLM). These models afford an analysis of nested data. Data with a nested structure are common in social science research (e.g. students are nested within classrooms) as well as disciplines and fields. This course explores different kinds of multi-level models as well as other approaches (e.g. bootstrap/jackknife) to analyzing large-scale survey data.
Prerequisite(s): BER 641

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

BER669 Item Response Theory
Hours 3
This course provides an introduction to item response theory (IRT). Major topics include 1) IRT models for dichotomous and polytomous data (e.g. Likert scales and partial credits), 2) basic estimation procedures, 3) differential item functioning (DIF) methods for evaluating validity and/or fairness in a scale, survey or educational assessment, and 4) applications using IRT software.
Prerequisite(s): BER 540 or BER 640
BER670 Rasch Techniques for Constructing and Evaluating Measurement Instruments  
Hours 3

This course provides graduate students with an introduction to techniques for constructing and evaluating measurement instructions in the human sciences. Major topics include the latent trait models proposed by George Rasch and extensions of these models (dichotomous, polytomous, many-facet), the philosophy for measurement that corresponds to these models, software applications for conducting analysis with Rasch models, the interpretation and use of results from Rasch model analysis, and opportunities to evaluate real-world applications of Rasch models.  
Prerequisite(s): BER 540; BER 640 (recommended)

BER671 Cognitive Diagnosis Modeling  
Hours 3

This course provides a robust overview of cognitive diagnosis modeling, a novel psychometric framework for developing educational and psychological tests and analyzing item-response data. In addition to exploring the foundational frameworks for cognitive diagnosis modeling the course covers the most recent developments in the field, including models for cognitive diagnosis and skill and item association validation.  
Prerequisite(s): BER 641 and BER 558

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

Practicum is a faculty-initiated research project done with faculty supervision. The work is related to the advisor’s research interests. Field work may be required.  
Prerequisite(s): BER 540 or BER 631

BER698 Non-Dissertat Research  
Hours 3-6

No description available

BER699 Dissertation Research  
Hours 1-12

No description available

BSP500 Intro School Psychology  
Hours 3

The history, role, and ethical and legal issues of school psychology are studied. The school psychologist’s role in team decision making is emphasized.

BSP501 Professional Issues and Ethics in School Psychology  
Hours 3

This course deals with pertinent issues in school psychology, such as ethics, theory, history and foundations of school psychology, legal issues, professional issues and standards, alternative models for delivery of school psychological services, as well as, roles and foundations of the school psychologist.

BSP502 Professional Seminar in School Psychology  
Hours 3

This graduate seminar course serves to introduce students in School Psychology to knowledge, skills, and dispositions that will help them become successful graduate students, scholars, and practitioners. As such, this course will engage students with topics of relevance to their personal, scholarly, and professional trajectories.

BSP504 Ethical and Professional Issues in Behavior Analysis  
Hours 3

This course is an introduction to the main roles and functions, the primary professional issues and the legal as well as ethical standards that are associated with the work of behavior analysis.

BSP515 Cog Acad Assmnt Decsn Makng  
Hours 3

Cognitive and academic assessment and psychological case report writing, focusing on standardized measures, as well as authentic and direct techniques, and treating the topics from perspectives in data based decision making and intervention for children with learning and behavior problems.

BSP516 Social Behav Assmnt Decisn Mak  
Hours 3

Study of behavioral and social-emotional assessment, emphasizing data-based decision making for children with learning and behavioral problems; using data in meaningful educational and psychological interventions is also stressed.

BSP520 Cognitive and Academic Assessment and Data-Based Decision Making  
Hours 3

The course is primarily focused on how to write cognitive and academic assessments and psychological case reports. The course accounts for the use of standardized measures and authentic and direct techniques, as well as for data-based decision making and the consideration of interventions for children with learning and behavioral problems.
BSP521 Cognitive and Academic Assessment and Data-Based Decision Making  
Hours 3
The course instructs students on cognitive and academic assessment and psychological case report writing, focusing on standardized measures, as well as, authentic and direct techniques, and perspectives in data-based decision making and interventions for children with learning and behavior problems.

BSP522 Social-Behavioral and Academic Assessment and Data-Based Decision Making  
Hours 3
Study of behavioral, social-emotional, and academic assessment, emphasizing data-based decision making for children with learning and/or behavioral problems; using data in meaningful educational and psychological interventions is also stressed.
Prerequisite(s): Permission of instructor.

BSP523 Social-Behavioral Assessment and Data-Based Decision Making  
Hours 3
The study of behavioral and social-emotional assessment that emphasizes data-based decision making for children with learning and behavioral problems and that stresses the use of data in educational and psychological interventions.

BSP580 School-Based Practicum in Assessment  
Hours 3
School-based practicum requiring 150 hours of supervised experience in assessment. Course emphasizes intellectual, achievement, behavioral, and social-emotional assessment of children with learning and/or behavioral problems and use of assessment in team decision making.
Prerequisite(s): BSP 521 & BSP 522, Minimum grade of B

BSP586 Assessment Practicum  
Hours 3
Requires 150 hours of supervised experience in assessment and is conducted in public schools or other agencies. Intellectual, achievement, behavioral, and social-emotional assessment of children with learning and behavioral problems and use of assessment in team decision making are emphasized.

BSP588 Intern School Psychometry  
Hours 3-6
The student performs the duties of a school psychometrist in a school system, under supervision.

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

BSP632 Behavior Interventions  
Hours 3
This course focuses on the knowledge and practical skills necessary for developing applied interventions related to a variety of behavior problems in a variety of settings. Specific principles and procedures for assessing behavior, developing interventions, and making data-based decisions will be addressed.
Prerequisite(s): BSP 501 or permission of the instructor

BSP633 Academic Interventions and Data-Based Decision Making  
Hours 3
This course is an advanced study of assessment and remediation of student deficits, skill-by-treatment interaction, systems consultation, organizational change, theories and research underlying instructional and academic interventions, and data-based decision making that meets the needs of all students within school settings.
Prerequisite(s): BSP 501 or permission of the instructor

BSP634 Advanced Concepts and Principles in Behavior Analysis  
Hours 3
This course is an introduction to the foundational concepts and principles of applied behavior analysis and the coverage of more advanced theoretical constructs in behavior analysis.

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

BSP636 Positive Behavior Interventions and Supports  
Hours 3
This course is designed to provide guidance for practitioners in special education or general education settings. Educators will learn the background of Positive Behavior Interventions and Supports (PBIS), focusing on evidence-based components across all three tiers, on key practices, as well as on methods of monitoring progress within a multi-tiered system of support.
BSP638 Consultation and Supervision  
Hours 3
This course addresses the application of consultation and supervision theories to support teachers, administrators, parents and various community agencies. This course emphasizes 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 632 or permission of 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.

BSP670 Educational and Historical Foundations of Psychology  
Hours 3
This course will explore the origins of psychology in philosophy and the sciences, the development of the science of psychology in the 19th and 20th centuries, and prevailing theoretical perspectives and key research findings in the field. The role of culture, science and technology in the development of psychological ideas will also be addressed. The course includes a focus on the profession of psychology from a diversity and multicultural perspective.
Prerequisite(s): Instructor Approval

BSP673 Research/Ethics Seminar  
Hours 3
Covers topics of current interest to school psychologists.

BSP683 Advanced School-Based Practicum  
Hours 3
The practicum requires 150 hours of supervised experience in the practice of school psychology, including consultation and intervention with children, parents, teachers, and administrators in public schools or other agencies.
Prerequisite(s): BSP 501, BSP 580, BSP 632
Prerequisite(s) with concurrency: BSP 633

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.

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 3
Supervised field experiences for doctoral students that focus on conducting school psychology assessments, consultations, and interventions with children, parents, teachers, and administrators in public schools and other agencies.
Prerequisite(s): BSP 580, BSP 683

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.

CAT100 Computer Concepts & Applicatn  
Hours 3
Fundamentals of computer use in education, including software applications, keyboard functions, peripherals, utilities, and software.

CAT200 Computer Education Application  
C
Hours 3
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.

Computer Science  

CAT250 Computer Educ Curric Devel  
C
Hours 3
Utilizing computer technology and computer applications in instruction. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CAT 200

Computer Science

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.
**CEE304 Teaching Early Childhood and Elementary School Science**
Hours 3

Teaching experiences related to P-6 children's learning of science, with emphasis on teaching strategies that use inquiry approaches. Intensive field experience. Admission to Teacher Education Program is required.

Prerequisite(s): CEE 365, CEE 370, CEE 380, CEE 492, and CEE 495 with a minimum passing grade of C-

Prerequisite(s) with concurrency: CEE 366, CEE 401, CEE 478, CEE 496 and BER 450

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**CEE320 Survey of Early Childhood and Elementary Education**
Hours 3

Surveys early childhood and elementary education as professional careers. Students become acquainted with factors affecting successful teaching in P-6.

Prerequisite(s) with concurrency: CRD 369, CEE 491, and MUE 385

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**CEE365 Literature for Early Childhood and Elementary Ages**
Hours 3

Selection and teaching of literature for P-6 children at various developmental levels, according to interests, needs, and abilities. Intensive field experience. Admission to Teacher Education Program is required.

Prerequisite(s): CEE 320, CRD 369, MUE 385 and CEE 491 with a minimum passing grade of C-

Prerequisite(s) with concurrency: CEE 370, CEE 380, CEE 401, CEE 492, and CEE 495

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**CEE366 Teaching Social Sciences for Early Childhood and Elementary Children**
Hours 3

The nature of P-6 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 365, CEE 370, CEE 380, CEE 492, and CEE 495 with a minimum passing grade of C-

Prerequisite(s) with concurrency: CEE 304, CEE 401, CEE 478, CEE 496, and BER 450

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**CEE370 Teaching Reading Elem School**

W

Hours 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 CEE 492

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Writing

**CEE380 Teaching Early Childhood and Elementary Mathematics**

Hours 3

P-6 teaching experiences related to children's developmental learning of 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 320, CRD 369, MUE 385, and CEE 491 with minimum passing grade of C-

Prerequisite(s) with concurrency: CEE 365, CEE 370, CEE 401, CEE 492, and CEE 495

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**CEE401 Managing Effective Classrooms**

Hours 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

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**CEE478 Teaching Language Arts in Early Childhood and Elementary W**

Hours 3

Deepening understanding of the materials and methods for teaching of P-6 language arts with emphasis on planning and implementing a writing program. Intensive field experience. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Admission to Teacher Education Program is required.

Prerequisite(s): CEE 365, CEE 370, CEE 380, CEE 492, and CEE 495 with a minimum passing grade of C-

Prerequisite(s) with concurrency: CEE 304, CEE 366, CEE 401, CEE 496, and BER 450

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Writing

**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

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**CEE492 Engaging Children and Families in the Early Childhood Classroom**

Hours 3

Students will develop advanced skills in planning and facilitating play-based activities to support the learning and development of children from birth through age eight. Students will use an integrated approach to teaching developmentally appropriate curriculum while building their professional knowledge related to advocacy and family engagement.

Prerequisite(s): CEE 320, CEE 491, CRD 369, MUE 385

Prerequisite(s) with concurrency: CEE 401, CEE 365, CEE 495, CEE 370, CEE 380
Course Inventory

CEE495 Practicum
Hours 3
Open only to students in professional semester II of the early childhood and elementary program. This course offers students significant clinical experience and opportunities to plan and teach lessons in P-6. Admission to Teacher Education Program is required.
Prerequisite(s): CRD 369, CEE 320, CEE 491, and MUE 385 with minimum passing grade of C-
Prerequisite(s) with concurrency: CEE 365, CEE 370, CEE 380, CEE 401, and CEE 492

CEE496 Senior Practicum
Hours 3
A field-based course providing opportunities to practice authentic classroom application of various subject areas in P-6 education. Admission to Teacher Education Program is required.
Prerequisite(s): CEE 365, CEE 370, CEE 380, CEE 492, CEE 495 with a minimum passing grade of C-
Prerequisite(s) with concurrency: CEE 304, CEE 366, CEE 401, CEE 478, and BER 450

CEE497 Early Childhood and Elementary Education Internship
Hours 4.5-7.5
Observation, participation, and teaching experiences supervised by selected cooperating teachers in P-6 early childhood and elementary schools. Additional supervision is provided by College of Education personnel.
Prerequisite(s): CEE 304 and CEE 366 and CEE 401 and CEE 478 and CEE 496 and BER 450 with a minimum passing grade of C-
Prerequisite(s) with concurrency: Prerequisite with concurrency EDU 400

CEE515 Science in Early Childhood and Elementary School
Hours 3
Designed to expand knowledge and competencies of early childhood and elementary teachers of science with specific focus on current standards, research, and inquiry models of instruction.

CEE516 Social Science in Early Childhood and Elementary School
Hours 3
The focus is on current trends in early childhood and elementary social studies, with particular attention to innovative instructional modes and to relating learning to the learners’ social environment.

CEE517 Lang Arts In Elem 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 in Early Childhood and Elem School Science
Hours 3
Focus on current research and trends in early childhood and elementary science with respect to historical, political, and socio-cultural contexts.

CEE526 Implementing Early Childhood and Elementary Social Studies
Hours 3
The focus is on considering and applying to one's own classroom the research base of investigating social studies curricula and instruction in early childhood and elementary education.

CEE530 Modern Elementary School Programs
Hours 3
The evolving elementary school and its program, with emphasis on analysis of current trends that directly affect modern school practices in a societal context.

CEE532 Early Childhood and Elementary School Curriculum
Hours 3
The purpose of this course is to focus on historical, current trends, and projective perspectives that influence the evolving early childhood and elementary school curriculum framework.

CEE544 Current Trends and Research in Early Childhood Education
Hours 3
Students will review current trends and research related to early childhood education, including curriculum, assessment, play, quality, and family engagement. Students will synthesize and apply research and discuss implications for working with children birth through age eight.

CEE546 Intro to Teaching Early Childhood and Elementary Science
Hours 3
Introduction to the teaching of science. Current research is emphasized supporting best instructional practices in science.

CEE550 Intro to Teaching Early Childhood and Elementary Social Studies
Hours 3
Teaching P-6 social studies using research-based instructional strategies and curriculum.

CEE555 Classics & Modern Literature for Early Childhood and Elementary Education
Hours 3
Designed to extend and strengthen the knowledge and competencies of experienced teachers in the following areas: major developments in literature for children; genres of children’s literature; and effective methods of helping early childhood and elementary children enjoy and use literature.

CEE557 Teach Reading in the Elementary School
Hours 3
The course provides a foundation in the materials and methods of teaching elementary reading with an emphasis on development, assessment, and instruction for individual and small groups of students. Intensive field experience is required.
Prerequisite(s): CRD 369, CEE 320, CEE 491 and MUE 385
Prerequisite(s) with concurrency: CEE 365, CEE 401, CEE 492, CEE 582 and CEE 595

CEE558 Guiding Early Childhood and Elementary Pupil Learning
Hours 3
Focuses on understanding how students learn, what physiological and environmental factors influence learning and how teachers can facilitate learning using brain-compatible learning. Included are theories-to-applications of brain-based learning research to classroom instructional situations in early childhood and elementary education.
CEE578 Teaching Language Arts in the Early Childhood and Elementary School
Hours 3
Deepening understanding of the materials for teaching of language arts in early childhood and elementary schools with emphasis on planning and implementing a writing program. Intensive field experience. Writing proficiency within the discipline is required for a passing grade in the course.

CEE580 Concepts of Early Childhood and Elementary School Mathematics
Hours 3
Focuses on the current research in P-6 mathematics education concerning how children learn mathematics.

CEE581 Early Childhood and Elementary Math Curriculum Research
Hours 3
Students learn the role and influence of mathematics curriculum and its interconnectedness to instruction and reflect about school, district, state and/or national curriculums. Explore current issues with US mathematics curriculum and unpack curriculum into intended, enacted, and assessed components for early childhood and elementary education.

CEE582 Teaching Mathematics to Early Childhood and Elementary Students
Hours 3
This course prepares students to effectively teach mathematics in P-6. Emphasis is on the current research in mathematics education.

CEE597 Internship in Early Childhood Education and Elementary Education
Hours 3-12
Observation, participation, and teaching experiences supervised by selected cooperating teachers in P-6 schools. Additional supervision is provided by College of Education personnel.
Prerequisite(s): CEE 401, CEE 550, CEE 560, CEE 578, CEE 596, and BER 450
Prerequisite(s) with concurrency: EDU 500

CEE599 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.

CEE692 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

CEE699 Non-Thesis Research
Hours 1-3
No description available
CEE699 Dissertation Research
Hours 1-12
The independent research course partially fulfills required research dissertation hours toward the doctoral degree. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

CIE480 Meth Teach Foreign Langs
W
Hours 3
Theories, methods, techniques, and essential media for teaching foreign languages effectively. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Admission to Teacher Education Program is required.

Prerequisite(s): None. Corequisite: CSE 489

Writing

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

CIE524 Improving Visual Arts Instruction
Hours 3
This course will focus on the practice of teaching visual arts education in pre-kindergarten, primary, middle and secondary levels. The theory supporting engaging visual arts education and the available and appropriate tools, strategies and resources will be investigated. Students will develop a working knowledge of art materials and methods appropriate for each level of growth.

Prerequisite(s): CSE 390, EDU 200. SPE 500, CRD 512, BEF 510, CIE 523, CIE 592

Prerequisite(s) with concurrency: EDU 500 and CIE 597

CIE560 Principles in Mathematics Education: Equity & Access Issues
Hours 3
This course explores the principles and foundations of effective, high-leverage mathematics teaching practices and their subsequent impact on students with diverse backgrounds. Teachers, administrators, and/or others are introduced to beliefs, practices, and situations that are related to maximizing student potential and learning opportunities. Access and equity are well-defined, developed, implemented, and assessed for all. This course is for Class B or Class A Educator license.

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.

CIE575 Teaching Emergent Multilinguals in Public Schools
W
Hours 3
This course explores the pedagogies of translingual literacies to prepare teachers to serve emergent multilinguals in the U.S. public schools. It offers teacher candidates classroom strategies to make content comprehensive and accessible to emergent multilinguals. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 Matrls
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.

CIE621 Writing for Academic Publication
Hours 3

This course will provide doctoral students with information about academic writing and project management. The tools, strategies and resources will be useful as students plan their thesis or dissertation and prepare research for dissemination. Students will learn writing habits, strategies for synthesizing research, and techniques for writing with clarity.

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 Curricl
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.

CIE656 Sem For Language Eductr 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.

CIE675 Theory and Research on Emergent Multilinguals
Hours 3
This course explores the current research base and theoretical frameworks for doctoral students to understand the pedagogies of translingual literacies and study emergent multilinguals in the U.S. public schools.

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.

CIE686 Research on Science Teaching
Hours 3
Principles and practices of research into science teaching with a focus on building researchers’ professional identities in the field. Topics include the field-specific nature, purposes, methods, rhetoric and impact of research into science teaching.
Prerequisite(s): BER 600, BER 631, and BER 640. Instructor Permission required.

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.

CRD369 Foundations of Reading Instruction for Early Childhood and Elementary Children
Hours 3
Introduction to literacy development, instruction, and assessment for P-6. Foundational concepts of literacy instruction and best-practice are covered. A field component is required.
Prerequisite(s) with concurrency: CEE 320 and CEE 491 and MUE 385

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): Admission to Teacher Education Program
Writing

CRDS10 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.

CRDS11 Beginning Reading in Pre-K and Primary Grades
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 for P-6. A field component is required.

CRDS12 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.

CRDS69 Introduction to Literacy Education
Hours 3
This course provides an overview to the foundations of literacy development and instruction grades PK-12.

CRDS50 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

CRD653 Foundations of Literacy Education P-12  
Hours 3  
This course explores multiple theories of literacy from a variety of perspectives and lenses. Additional areas of emphasis include a comprehensive study of the theoretical foundations and the history of literacy development and instruction in PK-12 settings, non-traditional settings (e.g. out of school context(s), and social contexts.  
Prerequisite(s): Permission of the instructor.

CRD654 Re-envisioning Reading Assessment and Instruction  
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 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

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

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 or MATH 247 and ST 260  
Prerequisite(s) with concurrency: MATH 403 and CSE 390

Computers Science  

CSE406 Curriculm Secondary Math  
W  
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): C- or better in CSE 401 Admission to Teacher Education Program

Writing  

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 emerging and existing technologies specific to secondary science teaching. Students will grow their capacity to employ technologies to plan, enact, and assess science teaching and learning. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Admission to Teacher Education Program is required.
Prerequisite(s): 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 Clinicl 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): CSE 390 Unconditional 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 Secondary School Teaching  
Hours 3-12  
Observing and teaching in the student's secondary school subject area. Admission to Teacher Education Program is required.  
Prerequisite(s): CSE 479 or CSE 480 or CSE 483 or CSE 486 or CSE 487 or CIE 480

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 Improving 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 Improving 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 Improving 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 Principles of Mathematics Education: Teaching, Learning & Curriculum  
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 Early Childhood and Elementary Pupil Learning  
Hours 3  
Focuses on understanding how students learn, what psychological and environmental factors influence learning, and how teachers can facilitate meaningful classroom instructional learning through insights into brain compatible learning, included are theories-to-applications of brain-based learning research to classroom instructional situations in early childhood and elementary education.

CSE575 Principles of Mathematics Education: Tools, Technology, Assessment  
Hours 3  
This course focuses on the teaching secondary mathematics with the use of new and emerging technologies. It explores the appropriate use of technologies to enhance conceptual understanding and problem solving in mathematics and aims to develop classroom lessons and assessments for a technology classroom.

CSE576 Improving Science Teaching  
Hours 3  
Examination and evaluation of emerging and existing technologies specific to secondary science teaching. Students will grow their capacity to employ technologies to plan, enact, and access science teaching and learning.

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.  
Prerequisite(s): Unconditional admission to the Teacher Education Program (TEP)

**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 580 OR CSE 583 OR CSE 586 OR CSE 587 or CIE 580 OR CIE 582

**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

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CSE699 Dissertation Research
Hours 1-12
This independent research course partially fulfills required research dissertation hours toward the doctoral degree. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology.

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.

EDU500 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

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 an 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

KIN100 Physical Conditioning Yoga
Hours 1
The purpose of this course is to provide the student with knowledge and skills that will assist an individual in participating in safe and effective yoga practices.

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 Physical Condition: Pilates
Hours 1
The purpose of this course is to provide the student with knowledge and skills that will assist an individual in participating in safe and effective Pilates practices.
KIN110 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.

KIN118 Water Aerobics  
Hours 1  
This course is designed to enhance cardio-respiratory fitness through the medium of water aerobics and physical conditioning.

KIN119 Indoor Cycling  
Hours 1  
This course is designed to enhance cardio-respiratory function through the medium of stationary bike group cycling.

KIN120 Aerobics  
Hours 1  
This course is designed to enhance cardiorespiratory fitness through the medium of aerobic dance and physical conditioning.

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.

KIN122 Aerobics  
Hours 1  
This course is designed to enhance cardio-respiratory fitness through the medium of aerobic dance and physical conditioning.

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.

KIN303 Physiology of Exercise  
Hours 3  
This course examines the human physiological response to exercise.  
Prerequisite(s): BSC 215 or BSC 216
KIN305 Dance & Gymnastics
Hours 3
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: Teaching Invasion, Striking/Fielding, and Target Games
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.

KIN307 Teach Trk & Fld/Net Game
Hours 3
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 3
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 3
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.

KIN330 Introduction to Horses in the Equine Industry
Hours 3
The purpose of this course is to provide students with a basic background knowledge in horses, to include: history, breeds, basic care and health, use, management, selection and behavior. Students in equine management related fields will require this knowledge in their professional fields to be knowledgeable caretakers and successful in business.

KIN335 Professional Development & Career Preparation for the Equine Industry
Hours 3
In addition to supervised professional experience in the equine industry 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.

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 clinical experience 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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.

KIN367 Exercise is Medicine  
Hours 3  
Public health guidelines, epidemiological evidence, and biological mechanisms related to physical activity and exercise-induced enhancement of physical and mental health (e.g., obesity, cardiovascular disease, diabetes, anxiety, depression) are covered. Personal exercise and health data are collected to engage in scientific inquiry and communication.

Prerequisite(s): KIN 303

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.

Prerequisite(s) with concurrency: KIN 113

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.

KIN392 Clinical Exercise Physiology  
Hours 3  
This course explores recent advances in exercise physiology for "clinical" populations. Particular emphasis is placed on the acute and chronic responses to exercise in patients at risk for or having cardiac, pulmonary, and metabolic diseases.

Prerequisite(s): KIN 303

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.
KIN430 Issues in the Equine Industry
Hours 3
The purpose of this course is to incorporate information gained in the classroom with a real-world perspective on the state of the equine industry. A wide variety of current topics will be discussed by industry leaders who will act as guest lecturers. Students in equine management related fields will require this knowledge in their professional fields to be knowledgeable caretakers and successful in business.

KIN435 Equine Business Management
Hours 3
This course examines the equine industry from a business management perspective and provides an opportunity to analyze the external environmental factors involved in opening and managing an equine business.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

KIN492 Advanced Physiology of Exercise
Hours 4
This course explores advanced concepts involving integrated human physiological responses to exercise. Laboratory activities expand concepts discussed in lecture. Students in KIN 492 will receive one overall grade in the course that encompasses both the lecture and the laboratory components (i.e. separate grades will not be posted for the lecture and laboratory components of the course).

Prerequisite(s): KIN 303

KIN493 Fitness Appraisal and Exercise Prescription
Hours 3
A study of the application of exercise testing and prescription principles to apparently healthy and diseased populations.

Prerequisite(s): KIN 303

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.

Prerequisite(s): KIN 303

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 305, KIN 306, KIN 307, KIN 311, KIN 350, KIN 360 and KIN 366 with a minimum passing grade of C-
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 in Kinesiology
Hours 3
This course covers the theoretical and practical understanding of physiological instrumentation and measurement in Kinesiology. The work includes practical laboratory experiences that are preparatory for graduate level research and other research and clinical career settings.

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**  
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in Kinesiology. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature and aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the goal of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

**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 Oberv 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.

**KIN651 Integrative Systems Physiology I**  
**Hours 3**  
This course will focus on the detailed physiological processes that occur in the major systems of the human body. The course will cover content related to cell physiology, fluid physiology, skeletal muscle physiology, cardiac physiology and function, nervous system physiology, and circulatory physiology.

**KIN652 Integrative Systems Physiology II**  
**Hours 3**  
This course will focus on the detailed physiological processes that occur in the major systems of the human body. The content of the course will cover acid/base and renal physiology, gastrointestinal physiology, pulmonary physiology and neural regulation, physiology of hematopoiesis and immunology, endocrine physiology, and metabolic regulation.

**KIN670 Biochemical and Molecular Aspects of Exercise**  
**Hours 3**  
This course focuses on the biochemical and molecular changes resulting from acute and chronic exercise training. Primary areas emphasized include metabolism, DNA/RNA, and cell signaling mechanisms.

**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**  
This independent research course partially fulfills required doctoral level research dissertation hours towards the PhD in Kinesiology. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

**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 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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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

Computer Science

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 Collaboration
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 Communication/Collaboration
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 Internship
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.

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.
Prerequisite(s): MUE 200

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 Teaching Music in the Early Childhood and Elementary Classroom
Hours 3
This course prepares future classroom teachers for engaging children in meaningful musical experiences in the early childhood and elementary classroom. Students explore music and movement development in children, and music and movement’s role in children’s development. Participants design and facilitate musical experiences including preforming (singing and playing), responding (listening, moving and describing), and creating (composing and improvising). Participants examine and create curricular experiences to connect and integrate music across the curriculum.
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): MUE 499 and MUA 299 with minimum grades of P and MUS 447 or MUS 448 with minimum grade of C-

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.

MUE522 General Music: Approaches and Practices
Hours 3
This course examines curricular approaches and contemporary practices in general music education. Students explore important questions about the purposes and characteristics of general music programs and how those programs meet the needs of diverse learners and communities. Students develop critical and reflective understandings of general music education within the context of current challenges and opportunities facing the field.

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 Curricular Projects In Mued
Hours 1-3
The design, proposal, implementation, evaluation, and reporting of a curricular project or an improved instructional procedure in music. Independent study.

MUE540 Intro Research In Mued
Hours 3
Introduction to research study in music education.

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.

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.

MUE597 Practicum Music Education
Hours 3-12
Supervised teaching experience in the area of specialization (instrumental or vocal and elementary), from nursery school through grade 12.

MUE598 Non-Thesis Research
Hours 1-3
No description available

MUE599 Thesis Research
Hours 1-6
No description available

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 Curricular Projects in Mued
Hours 1-3
The design, proposal, implementation, evaluation, and reporting of a curricular 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 Educati
Hours 1-3
No description available

MUE698 Non-Dissertatn Research
Hours 1-3
No description available

MUE699 Dissertation Research
Hours 1-12
No description available

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.

SPE301 Special Education Undergraduate Practicum
Hours 1
This practicum course to be taken once a semester after TEP admission that corresponds with the methods courses in that semester.
Prerequisite(s): TEP Admission

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing
SPE304 Instructional Strategies Spec Ed
Hours 3
Addresses curriculum planning and selection of instructional tasks, with emphasis on making decisions that facilitate learning in students with disabilities. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Writing

SPE375 Positive Behavior Interventions and Support and Managing Classrooms
Hours 3
This undergraduate course will help prepare classroom teachers to be effective in setting up their classrooms, managing instruction, grouping, establishing an inclusive, positive classroom climate, and improve instructional delivery.

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 Consultation
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).

SPE420 Language, Communication and Early Literacy Interventions
Hours 3
This course serves as an introduction to the foundations of early literacy. It provides an overview of typical and atypical language development and focuses on intervention procedures that are useful for teaching young children with language delays and developmental disabilities, including children from diverse cultural and linguistic backgrounds.

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.

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 Mbd
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 Mlb
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

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 Educt
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.

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.

SPE514 Teach Consult Model Spe
Hours 3
Introduction to various direct and indirect service delivery models for students with mild disabilities; consultant techniques demonstrated.

SPE520 Language, Communication and Early Literacy Interventions
Hours 3
This course provides information on language, communication, and literacy interventions for children with language delays or developmental disabilities, including children from diverse cultural and linguistic backgrounds. Intervention and instructional strategies will be examined and current research on the efficacy of child language intervention strategies will be discussed.

SPE531 Introduction to Autism Spectrum Disorder
Hours 3
This course provides an introduction to autism spectrum disorder with an emphasis on both clinical practice and research. The course will cover topics related to a range of ages, from early childhood to adulthood, and will focus on etiology, diagnosis and assessment, treatment and intervention, family support and advocacy.

SPE532 Evidence-Based Practices for Individuals with ASD
Hours 3
This course focuses on evidence-based practices for individuals with autism spectrum disorder (ASD). The course will offer an overview of the characteristics of individuals with ASD in order to provide a foundation for how these characteristics may influence the selection of appropriate goals and intervention strategies. The course focuses on specific-based instructional practices for individuals with ASD.

SPE533 Assessing Behavior Change in Individuals w/ Autism, Dev Disabilities and Behav Challenges
Hours 3
This course assesses behavior changes in individuals with autism through the use of a single subject research methodology. It includes the application of behavioral measurement, single subject research designs, and methods of data analysis. Autism intervention research is critically examined and a single subject research proposal is developed.

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 1-6
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 Children
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 Chld 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.

SPE588 Practicum in Special Education, Autism
Hours 3
This course is designed to ensure that students acquire critical knowledge in the instruction of children and youth with autism spectrum disorder. The course competencies reflect basic standards and competencies derived from the Alabama Administrative Code and the Council for Exceptional Children Standards for Advanced Preparation in Autism Spectrum Disorder and Developmental Disabilities.

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 Academc 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 Academc 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 1-6
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 1-6
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.

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 Workshp Gift Educatio  
Hours 3-6  
No description available.

SPE699 Dissertation Research  
Hours 1-12  
No description available.

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 or 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 105 or PH 125) and (ENGR 103 or ENGR 123) ] or [ (MATH 126 or MATH 146) and (PH 105 or PH 125) ]

### 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; lift 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 CS 110 or (RRS 101 and RRS 102), and AEM 250

### AEM349 Applied Numerical Methods C
**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 CS 110 or (RRS 101 and RRS 102))

### AEM351 Aerospace Structures Laboratory
**Hours 1**

Strain gage mounting and bridge circuits analysis; strain measurement in axial, bending, and torsional members resembling aerospace structures using axial and rosette strain gages; stress measurements in wing structural subcomponents (skin, stiffener, spar, rib, stringer) under bending loads using strain data; design, fabrication, and testing of a stiffened panel.

**Prerequisite(s):** AEM 251

**Prerequisite(s) with concurrency:** 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 static flight mechanics. Aircraft performance, including the straight and level flight, climb and glide, range and endurance, takeoff and landing, turning, performance testing, is introduced for propeller-driven and jet-engine aircraft. Flight mechanics deals with the trim and static stability of aircraft for steady flight conditions, based on the aerodynamic coefficients and stability derivatives derived from the aerodynamic build-up of complete aircraft.
Prerequisite(s): MATH 237 and MATH 238 and AEM 264 and AEM 311 and (AEM 249 or CS 100 or CS 110 or (RRS 101 and RRS 102))

AEM402 Integrated Aerospace Design I
W
Hours 3
Project planning and preliminary design techniques for an aerospace system. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): AEM 313 and AEM 341 and AEM 368 and AEM 413 or AEM 513
Prerequisite(s) with concurrency: AEM 408 or AEM 508

Writing

AEM404 Integrated Aerospace Design II
Hours 3
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.
Prerequisite(s): AEM 468 or ECE 475 or ME 475

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. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): AEM 311 and MATH 238

Computer Science

AEM425 Spacecraft Dynamics and Control
Hours 3
Formulate, understand, and apply rigid body dynamics to a spacecraft. Determine the orientation of the spacecraft. Demonstrate the ability stabilize a spacecraft (gravity gradient, momentum-bias, spin stabilization). Perform analytic and numerical analysis to understand its behavior.
Prerequisite(s): MATH 237 and AEM 264 and AEM 360 and (AEM 349 or ME 349)

AEM428 Space Propulsion
Hours 3
This course introduces the student to analyses of space and launch-vehicle propulsion and design. Topics covered include mono-propellant, bi-propellant solid and liquid rockets, nuclear rocket, and cold-gas thruster designs. Other advanced schemes such as solar and laser propulsion are also introduced.
Prerequisite(s): AEM 408
AEM446 Intermediate Solid Mechanics
Hours 3
Introduction to plane elasticity, failure theories, energy methods, thick walled cylinders and spinning disks, shear center and of unsymmetrical bending of beams, curved beams, beams on elastic foundations, torsion of non-circular cross-sections, thick-walled pressure vessels and other topics.
Prerequisite(s): AEM 250

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): MATH 227 or MATH 247, AEM 341 and (AEM 349 or ME 349)

AEM451 Aircraft Structural Design
Hours 3
Design of tension, compression bending, torsion, and stiffened panel members. Analytical investigation involving aircraft structural components.
Prerequisite(s): AEM 341

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.
Prerequisite(s): AEM 250

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. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MATH 227 or MATH 247, AEM 341 and (AEM 349 or ME 349)

Computer Science

AEM468 Flight Dynamics & Control
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.
Prerequisite(s): AEM 249 or CS 100 or CS 110 or (RRS 101 and RRS 102), and AEM 368

AEM469 Orbital Mechanics
Hours 3
Introduction to engineering application of celestial mechanics; to formulate, understand, and apply fundamentals in orbital mechanics to trajectory design process. Perform analytic and numerical analysis to understand its behavior. Kepler’s laws, coordinate transformations, and related studies.
Prerequisite(s): MATH 237 and MATH 238 and AEM 264 and (AEM 349 or ME 349) and AEM 360

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

AEM474 Structural Dynamics
Hours 3
Theoretical foundations of structural dynamics and application of methods to modeling, analysis, and design.
Prerequisite(s): AEM 264 and MATH 237 and MATH 238 and AEM 341

AEM475 Fundamentals of Aeroelasticity
Hours 3
Study of fluid-structure interactions between aerodynamic loads and static and/or dynamic deformations of flexible wings, as well as the influence of the interactions on aircraft performance. Concepts such as divergence, buffeting, and flutter, and rejection of external disturbances (e.g., gust alleviation) are introduced.
Prerequisite(s): AEM 313 and AEM 474
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.
Prerequisite(s): AEM 360

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.
Prerequisite(s): AEM 311

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s) with concurrency: AEM 402
Writing

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, viscous fluids and compressible fluids. Advanced topics in fluid mechanics, including potential flow, viscous flow and compressible 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
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. Computing proficiency is required for a passing grade in this course.

Computer Science
AEM525 Spacecraft Dynamics and Control
Hours 3
Formulate, understand, and apply rigid body dynamics to a spacecraft. Determine the orientation of the spacecraft. Demonstrate the ability to stabilize a spacecraft (gravity gradient, momentum-bias, spin stabilization). Perform analytic and numerical analysis to understand its behavior.

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.

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.

AEM562 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.

AEM569 Orbital Mechanics
Hours 3
Introduction to engineering application of celestial mechanics; to formulate, understand, and apply fundamentals in orbital mechanics to trajectory design process. Perform analytic and numerical analysis to understand its behavior. 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  
Study of fluid-structure interactions between aerodynamic loads and static and/or dynamic deformations of flexible wings, as well as the influence of the interactions on aircraft performance. Concepts such as divergence, buffeting, and flutter, and rejection of external disturbances (e.g., gust alleviation) are introduced.

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 1-6  
Planning, executing, and presenting results of an 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  
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree Aerospace Engineering and Mechanics. The course is conducted under the guidance of the thesis advisor. Material covered or studied will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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, hypersonic viscous interactions, and topics of current interest.
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.

AEM648 Theory of Plasticity
Hours 3
Theory of plastic deformation of metals and other materials. Development of yield criteria, application of flow rules, and yield surface based plasticity theories. Application to engineering structures, including computer programming assignments and finite element analysis assignments.

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): Instructor's consent.

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.

AEM669 Advanced Astrodynamics
Hours 3
The main objective of this course is to formulate, understand, and apply fundamentals of dynamical systems theory to spacecraft trajectory design process. Understand the behavior of a spacecraft under gravitational and non-gravitational forces and design cost-effective trajectories. Perform analytic and numerical analysis to understand spacecraft behavior beginning with the three-body problem.
Prerequisite(s): AEM 469 or AEM 569

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.

AEM691 Special Problems
Hours 1-3
Independent investigations of special problems. Credit is based on the amount of work undertaken.

AEM694 Special Project
Hours 1-6
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.
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
Hours 3
Permitting, environmental impact statements and other environmental issues associated with human activities and engineering projects.

CE260 Civil & Construction Surveying
Hours 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 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 Field Studies in Water and Climate
Hours 4
Water is one of the most abundant, yet most precious, natural resources on Earth. Processes occurring within and across many geosystems determine water's movement and properties. This course explores how components of Earth's water and climate systems operate and are linked through a combination of lecture and experiential field/lab activities. Fieldtrips and lab activities are designed to expose students to standard and innovative techniques used by engineers and geoscientists to understand water and climate systems, including map interpretation, glacial mass balance analysis, and dendrochronologic (tree ring measurement) analysis to obtain river flow and flood information. Fieldtrips will also help students better understand how humans modify water systems, through processes such as river regulation. Students will reside in Innsbruck (Austria) [with daytrips to King Ludwig II's castles in Bavaria, Stubaier Glacier in Austria, and Bolzano, Italy] and Munich (Germany).

CE320 Intro Environmental Engineer
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 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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): CE 262 and AEM 250

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.
Prerequisite(s): Dynamics (AEM 264) and Fluid Mechanics (AEM 311); or Fluid Flow Operations (CHE 304)
CE401 Capstone Design Site Development: Civil Engineering  
C, W  
Hours 4  
Students use 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Computer proficiency is required for a passing grade in the course. A student who does not display computer upper-division student skills with Civil 3D and HEC-HMS will not earn a passing grade, no matter how well the student performs in the other areas of the course.  
Prerequisite(s): CE 340 plus 4 of the following (CE 320, CE 331, CE 350, CE 366, CE 378)  
Prerequisite(s) with concurrency: 1 of ((CE 461 or CE 561) OR (CE 458 or CE 558) OR (CE 424 or CE 524) OR (CE 475 or CE 575) OR (CE 451 or CE 551)) and and AND and and 1 of ((CE 424 or CE 524) OR (CE 425 or CE 525) OR CE 433 OR CE 434 OR (CE 451 or CE 551) OR (CE 458 or CE 558) OR (CE 459 or CE 559) OR (CE 461 or CE 561) OR (CE 462 or CE 562) OR (CE 475 or CE 575))  
Computer Science, Writing  

CE402 Capstone Design Site Development: Construction Engineering  
C, W  
Hours 4  
Students use software to design projects in teams, prepare construction drawings and deliver engineering reports. Writing proficiency within this discipline and computing proficiency are required for a passing grade in this course. Computer proficiency is required for a passing grade in the course. A student who does not display computer upper-division student skills with Civil 3D and HEC-HMS will not earn a passing grade, no matter how well the student performs in the other areas of the course.  
Prerequisite(s): CE 340 AND CE 366 AND CE 331  
Prerequisite(s) with concurrency: CE 461 OR CE 561 and AND and CE 468 OR CE 568 and AND and CE 433 OR CE 434  
Computer Science, Writing  

CE403 Capstone Design Building Systems: Civil Engineering  
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Computer proficiency is required for a passing grade in this course. All students will use the software program Revit to model their design project.  
Prerequisite(s): CE 331 and CE 340 and 3 of (CE 320, CE 350, CE 366, CE 378) and (CE 433 OR CE 434)  
Prerequisite(s) with concurrency: ONE of the following: (CE 424 OR CE 524) or (CE 425 OR CE 525) or and CE 433 or CE 434 or (CE 451 OR CE 551) or (CE 458 OR CE 558) or (CE 459 OR CE 559) or (CE 461 OR CE 561) or (CE 462 OR CE 562) or (CE 475 OR CE 575)  
Computer Science, Writing  

CE404 Capstone Design Building Systems: Construction Engineering  
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Computer proficiency is required for a passing grade in this course. All students will use the software program Revit to model their design project. A Revit assignment and test will be given during the semester.  
Prerequisite(s): CE 340 AND CE 366 AND CE 331 AND (CE 433 OR CE 434)  
Prerequisite(s) with concurrency: CE 462 OR CE 562 and AND and CE 468 OR CE 568  
Computer Science, Writing  

CE405 Capstone Design Site Development: Environmental Engineering  
C, W  
Hours 4  
Students use 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Computer proficiency is required for a passing grade in the course. A student who does not display computer upper-division student skills with Civil 3D and HEC-HMS will not earn a passing grade, no matter how well the student performs in the other areas of the course.  
Prerequisite(s): CE 320 AND CE 340 AND CE 378  
Prerequisite(s) with concurrency: CE 425 OR CE 525 and AND and CE 424 OR CE 524 OR CE 524 and AND and CE 475 OR CE 575  
Computer Science, Writing
CE406 Capstone Design Building Systems: Architectural Engineering

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Computing proficiency is required for a passing grade in this course. All students will use the software program Revit to model their design project.

Prerequisite(s): CE 340 AND CE 366 AND CE 331
Prerequisite(s) with concurrency: CE 462 OR CE 562 and AND and CE 433 and AND and CE 434

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 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 principal 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

CE426 Groundwater Mechanics

Hours 3

To understand the physics and theoretical principles of groundwater flow and transport processes, and apply this knowledge for solving practical groundwater flow and transport problems.

Prerequisite(s): MATH 227 and AEM 311

CE430 Non-Destructive Evaluation and Testing of Civil Engineering Structures

Hours 3

This course covers the state-of-the-art and state-of-the-practice methods of non-destructively evaluating and testing various civil engineering structures and materials such as concrete, asphalt, and steel. Students will use the techniques to solve real-world problems by evaluating and testing various structures across campus.

Prerequisite(s): CE 340

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

CE436 Wood Structural Design  
Hours 3  
Modern timber engineering: design of beams, columns, trusses and floor systems.  
Prerequisite(s): CE 331

CE437 Reinforced Concrete Struct II  
Hours 3  
Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slab-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  
Prerequisite(s) with concurrency: CE 340

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 and Management
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

CE466 Sustainable and Lean Construction
Hours 3
An introduction to sustainable and lean construction, including application of engineering economics principles to sustainable construction problems. Green design, construction, and operations from a project management standpoint. Theoretical concepts and industry practices used to model, evaluate, and enhance construction performance through the design and implementation of effective project schedules, construction operations, and contracting relationships.
Prerequisite(s): 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 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.
Prerequisite(s): Sophomore status, 2.5 GPA, CE 378

CE471 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

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

CE476 Process Hydrology
Hours 3
This course develops a quantitative approach to understanding and prediction of hydrologic processes. The processes covered include interception, snowmelt, evapotranspiration, infiltration, groundwater flow, overland flow, and streamflow. Relative (dis-)advantages of different model representations will be highlighted. Process couplings and their impact on the integrated hydrologic response will be also discussed.
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 sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.

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 350, CE 366 or CE 378, and one HU elective (3 credits)

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 Topics in Civil Engineering
Hours 1-4
Credit is based on the amount of work undertaken. This course is presents developing topics in the Civil Engineering disciplines including: transportation systems, processes and model; site development; architectural & building systems; advances in civil engineering materials and structural design; environmental analysis, modeling, or processes; hydrologist processes, models and water resources advances; next generation construction engineering; sustainability and resilient infrastructure systems.
Prerequisite(s): CE 252 AND One of the following: CE 320, CE 331, CE 340, CE 350, CE 366, CE 378

CE492 Independent Study in Civil Engineering Sub-Disciplines
Hours 1-4
Independent study, either as individual students or a group of five students or less working under the guidance and mentorship of an instructor. The independent study will typically focus on: (1) a specific issue, problem, application, design or process in a traditional field of civil engineering OR (2) a specific development, advancement, issue, problem, or challenge in a new or developing specialty area in the fields of civil engineering.

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)

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 Mangement
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 Managmnt
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

CE526 Groundwater Mechanics
Hours 3
A mechanics course focusing on developing the physical and mathematical principles of groundwater models used for predicting water and contaminant transport processes in subsurface aquifers.
Prerequisite(s): MATH 227 and AEM 311

CE529 Research Proposal Writing in EWR
Hours 3
Research funding is essential to a successful academic career. However, few PhD students receive adequate mentoring in how to craft competitive proposals. In this course, graduate students review literature, identify research questions, then draft and submit competitive funding proposals (for example to the EPA P3 program).

CE530 Non-Destructive Evaluation and Testing of Civil Engineering Structures
Hours 3
This course covers the state-of-the-art and state-of-the-practice methods of non-destructively evaluating and testing various civil engineering structures and materials such as concrete, asphalt, and steel. Students will use the techniques to solve real-world problems by evaluating and testing various structures across campus.
Prerequisite(s): CE 340

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 advanced 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; MTE 271 for non-CCEE students

**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, slab-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

**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

**CE551 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

**CE552 Transportation Safety and Security**  
Hours 3  
This course focuses on major transportation safety and security issues. The course examines how death, injury and property damage and the public perception of risk detract communities from achieving their goals. The specific issues relate to transportation safety and security goals, relevant frameworks, and the selection of safety countermeasures and their evaluation in terms of specific criteria.  
Prerequisite(s): CE 350

**CE553 Intelligent Transportation Systems**  
Hours 3  
This course covers the fundamentals of Intelligent Transportation Systems (ITS). The topics to be covered in the course will include systems engineering approach applied to ITS, ITS deployment and transportation operations, transportation system management, traveler response to technologies and information, ITS planning, evaluation, and institutional issues.  
Prerequisite(s): CE 350

**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.

**CE555 Traffic Flow Theory**  
Hours 3  
This course covers the fundamentals of traffic flow theory. Topics shall include microscopic flow characteristics, macroscopic flow characteristics, microscopic speed characteristics, macroscopic speed characteristics, microscopic density characteristics, macroscopic density characteristics, demand-supply analysis, capacity analysis, traffic stream models, shockwave analysis, queueing analysis, and simulation models.  
Prerequisite(s): CE 350
CE558 Traffic Engineering
Hours 3
This course covers the fundamentals of traffic engineering, including vehicle operating characteristics, traffic flow, traffic data, traffic hardware, traffic software, geometric design of road and intersections, and methods of traffic control.
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

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 and Management
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

CE566 Sustainable and Lean Construction
Hours 3
An introduction to sustainable and lean construction, including application of engineering economics principles to sustainable construction problems. Green design, construction, and operations from a project management standpoint. Theoretical concepts and industry practices used to model, evaluate, and enhance construction performance through the design and implementation of effective project schedules, construction operations, and contracting relationships.
Prerequisite(s): 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

CE576 Process Hydrology
Hours 3
This course develops a quantitative approach to understanding and prediction of hydrologic processes. The processes covered include interception, snowmelt, evapotranspiration, infiltration, groundwater flow, overland flow, and streamflow. Relative (dis-)advantages of different model representations will be highlighted. Process couplings and their impact on the integrated hydrologic response will be also discussed. Evaluation in the course will consist of out-of-class assignments and a term project.
Prerequisite(s): CE 378

CE578 Analytical Methods in Environmental Engineering
Hours 3
The field of environmental engineering relies heavily on a number of analytical techniques, which have become the basis for a large amount of the work being conducted. The main objective of this course is to introduce students to the theory and application of many of the analytical instruments that are commonly used by environmental engineers.
Prerequisite(s): CH 101 or CH 117; CE 320 or CHE 255
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)

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.

CE592 Graduate Independent Study in Civil Engineering Sub-Discipline
Hours 1-4
Independent study, either as individual students or a group of five students or less working under the guidance and mentorship of an instructor. The independent study will typically focus on: (1) a specific issue, problem, application, design or process in a traditional field of civil engineering OR (2) a specific development, advancement, issue, problem, or challenge in a new or developing specialty area in the fields of civil engineering.

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
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in Civil Engineering/Environmental Engineering. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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

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

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

CE673 Statistical and Econometrics Practices for Engineers
Hours 3
This course covers basic and advanced statistical and econometric methods as applied to engineering-related problems. Topics include introduction to ordinary least squares regression, count-data models including Poisson and negative binomial regressions and their extensions, simultaneous equations models, multinomial logit models, ordered probability models, joint discrete/continuous models, and hazard-based duration models.
Prerequisite(s): CE 573

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
This independent research course partially fulfills required doctoral level research dissertation hours toward the Ph.D. in civil engineering. A minimum of 24 dissertation hours are required, at 1-12 hours per semester. The course is conducted under the guidance of the Ph.D. advisor. After completing requirements for admission to candidacy, the student registers for a minimum of 3 hours per semester in this course, each semester, until all dissertation requirements have been approved. 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 and advisor guidance will be focused on readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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; AEM 121 or AEM 131 or CE 121 or ECE 121 or ENGR 111 or ME 121 or MTE 121 or EE 121 or CS 121
Prerequisite(s) with concurrency: CHE 125

CHE255 Chemical Engineering Thermodynamics
C
Hours 4
The backbone of thermodynamics theory is based on ideal gas and structured as following: First, establish theory/property model ideal gas pure substance, use ideal gas model to describe real gas by introduce residual property; Second, use theory/property model ideal gas mixture to describe real gas mixture by residual property and partial property; Third, establish theory/property of model ideal solution, use it to describe real solution mixture with excessive property. Computer proficiency is required for a passing grade in this course. Offered fall and spring.
Prerequisite(s): ENGR 103 or ENGR 123 and CHE 254 and MATH 126 or MATH 146
Prerequisite(s) with concurrency: MATH 238

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 and PH 105

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 and CHE 305 and CHE 306 and 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered summer only. Can be replaced by successful completion of CHE 321 and CHE 322.
Prerequisite(s): CHE 304 and CHE 305 and CHE 306
Writing

CHE324 Transport Phenomena
C
Hours 3
This course will give junior & senior level students a working knowledge of conservation equations for mass, momentum and energy with application to steady-state chemical processes. Computer proficiency is required for a passing grade in this course.
Prerequisite(s): CHE 255 and MATH 238 and CHE 304
Computer Science

CHE325 ChE Honors Forum
UH
Hours 1
Designed to expose students to the rich array of resources, ideas and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.
University Honors

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
University Honors

CHE414 Computer Methods in Chemical Engineering
Hours 3
A survey of common software, data processing, and statistical analysis tools applied to chemical engineering, science, and general interest topics. This course covers the fundamentals of computer programming (coding) and problem solving for chemical engineering students.
Prerequisite(s) with concurrency: CHE 354

CHE415 Honors Computer Methods in Chemical Engineering
UH
Hours 3
A survey of common software, data processing, and statistical analysis tools applied to chemical engineering, science, and general interest topics. This course covers the fundamentals of computer programming (coding) and problem solving for chemical engineering students. Honors designation.
Prerequisite(s) with concurrency: CHE 354
University Honors

CHE416 Stem Cell Bioengineering
Hours 3
Introduction to stem cell biology and bioengineering approaches for stem cell-based therapy and related applications. This course will provide special emphasis on the application of chemical engineering skills to bioengineering and development of stem cell-based therapy and diagnostics.
Prerequisite(s): CHE 255 or CHE 418 or CHE 445 or BSC 300 or CH 461
CHE417 Honors Stem Cell Bioengineering  
*UH*  
Hours 3  
Introduction to stem cell biology and bioengineering approaches for stem cell-based therapy and related applications. This course will provide special emphasis on the application of chemical engineering skills to bioengineering and development of stem cell-based therapy and diagnostics. Honors designation.  
Prerequisite(s): CHE 255 or CHE 418 or CHE 445 or BSC 300 or CH 461  
University Honors  

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. Senior standing required.  
Prerequisite(s): CH 102 or CH 118, and CHE 255 and two of the following courses CHE 304, CHE 305, CHE 306, CHE 324, CHE 354  

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. The CH 441/540 designation will allow ChE graduate students and qualified senior-level chemical engineering majors to take this course. Several loss prevention topics are more complex than typically assigned to the undergraduate chemical engineering students. Advanced topics may include recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis. Greater analysis, synthesis and evaluation-of-knowledge skills will be required for students enrolled in CH 441/540.  
Prerequisite(s): CH 102 or CH 118, CH 255 and completed at least two courses from CHE 304, CHE 305, CHE 306, CHE 324, CHE 354  
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 required that students complete at least two 300-level ChE classes before enrolling in 481.  
Prerequisite(s): CHE 255 plus at least two from CHE 305, CHE 306, CHE 324, CHE 354  

CHE482 Chemical Process Design II  
*W*  
Hours 3  
Optimal design of chemical processes and plants. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): CHE 481 and CHE 354  
Writing
Course Inventory

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

CHE497 Honors Co-op/Internship
UH
Hours 3
This course is designed to allow B.S. Chemical Engineering students to earn credit for work completed through a co-op, internship, research experience for undergraduates (REU) program or other approved activity external to UA. The course focuses on delivery of a presentation on the work completed in the activity with preparation of the presentation materials done with guidance from the instructor to ensure that material is suited to a freshman- or sophomore- level Chemical Engineering class. Students for this course must submit the ChBE Honors Co-Op/Internship/REU Approval Form before the co-op/internship/REU period ends. Students are also required to receive approval by the ChBE Honors Program Chair prior to registration. Honors designation.
Prerequisite(s): Permission and approval by ChBE Honors Program Chair
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
UH
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

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.

CHE514 Computer Methods in Chemical Engineering
Hours 3
A survey of common software, data processing, and statistical analysis tools applied to chemical engineering, science, and general interest topics. This course covers the fundamentals of computer programming (coding) and problem solving for chemical engineering students. Offered primarily in the fall semester.

CHE516 Stem Cell Bioengineering
Hours 3
This course will give introductory knowledge of stem cell biology and various bioengineering approaches used for their study and application.

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  
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. Several loss prevention topics are more complex than typically assigned to the undergraduate chemical engineering students. Advanced topics may include recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis. Greater analysis, synthesis and evaluation-of-knowledge skills will be required.  
Prerequisite(s): two courses from (CHE 304, CHE 305, CHE 306, CHE 324, CHE 354)  

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.  

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  
This independent research course partially fulfills required master's-level research thesis hours toward the master's degree in chemical engineering. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master's students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.  

CHE691 Special Problems  
Hours 1-3  
Problems of current research.  

CHE692 Special Problems  
Hours 1-3  
Problems of current research.  

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  
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree in chemical engineering. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.
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  
C  
Hours 4
A second course in programming for students majoring in computer science. Using a high-level language, students 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. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): (CS 100 or CS 110 or RRS 102) and (MATH 125 or MATH 145)

Computer Science

CS102 Computer Applications  
C  
Hours 3
Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management. Computing proficiency is required for a passing grade in this course.

Computer Science

CS104 Computer Science Principles  
C  
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. Students will use the graphical programming language Snap. Computing proficiency is required for a passing grade in this course.
Prerequisite(s) with concurrency: MATH 112 or MATH 115 or MATH 125 or MATH 126 or MATH 145 or MATH 146

Computer Science

CS110 Honors CS I for Majors  
UH  
Hours 4
This course covers the same material as CS 100 but in a depth appropriate for honors students. It is an honors version of the first course in programming for students majoring in computer science. Prior knowledge of programming is not required, but the course is appropriate for students with prior programming experience. 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

University Honors

CS111 Honors CSII for Majors  
UH  
Hours 4
This course covers the same material as CS 101 but in a depth appropriate for honors students. It is an honors version of the second course in programming for students majoring in computer science. Using a high-level language, students 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 110 or CS 100 or RRS 102) and (MATH 125 or MATH 145)

University Honors

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

CS140 Introduction to Cyber Security  
Hours 3
This course provides an introduction to cyber security. It covers fundamental concepts necessary to understand the threats to security as well as various defenses against those threats. The material includes an understanding of existing threats, planning for security, technology used to defend a computer system, and implementing security measures and technology.
Prerequisite(s): CS 100
**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. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): CS 101 or CS 111

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. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): (CS 101 or CS 111) and MATH 301

Computer Science

**CS202 Web Foundations**  
*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. Computing proficiency is required for a passing grade in this course.

Computer Science

**CS285 Intro to Spreadsheet Applications**  
*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.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): CS 200 and CS 201

Writing

**CS302 Database Applications**  
*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.

Computer Science

**CS305 Advanced Database Applications and Design**  
*C*  
Hours 3  
This course is a follow-up course to CS 302 for non-majors wishing to learn more about the design and use of database systems. Now that the underpinnings of data, data representation, and data visualization are in place from CS 302, students will undertake an investigation into the uses of data and the construction of and understanding of databases design principles. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): CS 302 with a grade of C- or higher

Computer Science

**CS312 Website Design**  
*C*  
Hours 3  
A course designed to teach website design principles and implementation techniques. The course requires prior knowledge of the fundamentals of the internet and web page design and development. 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 C- or higher

Computer Science

**CS322 Python Programming**  
*C*  
Hours 3  
A course designed to introduce programming and problem solving using Python. This class is not cross-listed as a graduate course. Computing proficiency is required for a passing grade in this course.  
Prerequisite(s): MATH 112 or higher

Computer Science
CS340 Legal & Ethical Issues in Comp  

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.

Computer Science  
CS345 Advanced Legal and Ethical Issues in Computing  

Hours 3  
By way of case study and fact pattern analysis, we will find and frame advanced legal and ethical issues presented by past, contemporary and emerging technology. Cases and events will be examined. At the conclusion of the semester, students will be able to identify and discuss legal and ethical issues presented by technology. Students will create a seminal project showcasing their understanding of a chosen issue as well as the student’s ability to use computing technology to communicate, share and display their work. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): CS 340 with a grade of C- or higher

Computer Science  
CS347 Cyber Law and Ethics  

Hours 3  
We will analyze advanced legal and ethical issues confronting the usage of new technologies and how these issues impact society. We will examine past, contemporary and emerging cases that have a connection to computing technology. Human values and ethics will be at the forefront of our approach, and we will study the intersection of human values, law and professional ethics.

Prerequisite(s): CS 100 or CS 322

Humanities  
CS385 Advanced Spreadsheet Applications  

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 C- or higher

Computer Science  
CS403 Programming Languages  

Hours 3  
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, CS 301 and ECE 383

CS404 CS Curriculum for Math Educators  

Hours 3  
Building upon the concepts from CS 104, students will explore in-depth how computer science education is presented in the secondary education setting. Students will get the opportunity to explore current computer science curriculum and develop resources for future teaching, with a specific emphasis on the College Board’s AP CS Principles (AP CSP) curriculum.

Prerequisite(s): CS 104

CS407 Software Interface Design  

Hours 3  
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, CS 301 and ECE 383

CS415 Software Design & Development  

Hours 3  
Object-oriented design and development using UML and Java, design patterns, and architectural patterns.

Prerequisite(s): CS 300, CS 301 and ECE 383

CS416 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 300, CS 301 and ECE 383

CS417 Requirements Engineering  

Hours 3  
Study of requirements engineering and it’s phases. Topics include formal, semi-formal, and informal paradigms for elicitation, documentation, and management of software system requirements.

Prerequisite(s): CS 300, CS 301 and ECE 383

CS420 Software Evolution  

Hours 3  
Study of techniques and tools for design-time and run-time software adaptation, including principles of reflection and metaprogramming, software modularity, metamodeling and software language engineering.

Prerequisite(s): CS 300, CS 301 and ECE 383
CS428 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 300, CS 301 and ECE 383

CS434 Compiler Construction
Hours 3
Syntax and semantics of procedure-oriented languages and translation techniques used in their compilation; includes computer implementation.
Prerequisite(s): CS 300, CS 301, and ECE 383

CS435 Computer Graphics
Hours 3
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, CS 301 and ECE 383

CS438 Computer Comm & Networks
Hours 3
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, CS 301 and ECE 383

CS442 Cryptography
Hours 3
This course will cover algorithms and concepts in cryptography and data security. We will undertake 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, etc.
Prerequisite(s): CS 300, CS 301 and ECE 383

CS443 Digital Forensics
Hours 3
Digital Forensics is an area of study that is rapidly growing in importance and visibility. It involves preserving, identifying, extracting, documenting and interpreting digital data. Though sometimes misunderstood, digital forensics is like other types of investigation. With the continuous rise of computer-related incidents and crimes, and the increased emphasis on homeland defense in this country, there is a growing need for computer science graduates with the skills to investigate these crimes. This course will introduce the topics of computer crime and digital forensics. Students will be required to learn different aspects of computer crime and ways in which to uncover, protect and exploit digital evidence.
Prerequisite(s): CS 300, CS 301, and ECE 383

CS444 Software Security
Hours 3
This course is an introduction to software security principles and practices. Topics for this course will include but not be limited to security architectures, defensive programming, web security, secure information flow, and common software vulnerabilities.
Prerequisite(s): CS 300, CS 301, and ECE 383

CS445 Software Reverse Engineering
Hours 3
Software Reverse Engineering is an area of study that is rapidly growing in importance and visibility. This course will reveal to students the challenges of monitoring and understanding software systems. During the course students will become familiar with the practice of software reverse engineering files by utilizing static and dynamic techniques, and methods in order to gain an understanding as to what impact a file may have on a computer system.
Prerequisite(s): CS 300, CS 301, and ECE 383

CS448 Network Security
Hours 3
Concepts concerning network security, including an examination of network security concepts, algorithms, and protocols.
Prerequisite(s): CS 300, CS 301 and ECE 383

CS451 Data Science
Hours 3
This course introduces fundamental concepts & techniques in data science as well as develops practical skills for data analysis in real-world applications. Given the multi-disciplinary nature of data science, the course will primarily focus on the advantages and disadvantages of various methods for different data characteristics, but will also provide some coverage on the statistical or mathematical foundations. Topics to cover include data preprocessing, data exploration, relationship mining, prediction, clustering, outlier detection, deep learning, spatial and spatiotemporal data analysis, text data analysis, and big data.
Prerequisite(s): CS 300, CS 301, MATH 237, (MATH 355 or GES 255), ECE 383

CS452 Information Retrieval
Hours 3
This course is an introduction to information retrieval principles and practices. The course will cover several aspects of Information Retrieval including: indexing, processing, querying, and classifying data. Also, retrieval models, algorithms, and implementations will be covered. Though the class will focus primarily on textual data, other media including images/videos, music/audio files, and geospatial information will be addressed. Topics for this course will include but not be limited to: text processing and classification, web search development techniques, and document clustering.
Prerequisite(s): CS 300, CS 301, ECE 383
CS455 Social Media Data Analytics
Hours 3
The world is experiencing rapid growth in the amount of published data which come from different sources, including Social Media platforms. The availability of programming interfaces to these platforms allows for near real-time processing of these data for various purposes. This course will reveal to students the inherent challenges of analyzing Social Media data and introduce tools and techniques that are available to address them.
Prerequisite(s): CS 300, CS 301, and ECE 383

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, CS 301 and ECE 383

CS461 Brain Computer Interface
Hours 3
This course involves the exploration of new forms of Human-Computer Interaction (HCI) based on passive measurement of neurophysiological states (cognitive and affective). These include the measurement of cognitive workload and affective engagement.

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, CS 301 and ECE 383

CS470 Computer Algorithms
Hours 3
Construction of efficient algorithms for computer implementation.
Prerequisite(s): CS 300, CS 301 and ECE 383

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, CS 301 and ECE 383

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, CS 301 and ECE 383

CS481 High Performance Computing
Hours 3
This course provides students with knowledge and fundamental concepts of high performance computing as well as hands-on experience of the core technology in the field. The objective of this class is to understand how to achieve high performance on a wide range of computational platforms. Topics include: optimizing the performance of sequential programs based on modern computer memory hierarchies, parallel algorithm design, developing parallel programs using MPI, analyzing the performance of parallel programs.
Prerequisite(s): (CS 300, CS 301 and ECE 383) or permission of instructor.

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, CS 301 and ECE 383

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, CS 301 and ECE 383

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, CS 301 and ECE 383

CS494 CyberCorps Scholarship For Service Seminar
Hours 1
The CyberCorps© Scholarship for Service (SFS) Seminar is only for the students in the SFS@Bama program. This course will focus on important information necessary to be successful in a government cyber security career. The CyberCorps© SFS program prepares the next generation of cyber security employees to protect and defend the United States of America's infrastructure from threats, attacks, and potential intrusions. The course will include briefings, presentations, job related tasks, job fairs, and guest speakers.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
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
Hours 3
Independent research and participation within a faculty member's research group. 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

CS503 Programming Languages
Hours 3
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. Students who have successfully completed CS 403 may not also receive credit for CS 503.

CS504 CS Curriculum for Math Education
Hours 3
Building upon the concepts from CS 104, students will explore in-depth how computer science education is presented in the secondary education setting. Students will get the opportunity to explore current computer science curriculum and develop resources for future teaching, with a specific emphasis on the College Board's AP CS Principles (AP CSP) curriculum.
Prerequisite(s): CS 104 or permission by instructor.

CS507 Software Interface Design
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. Students who have successfully completed CS 407 may not also receive credit for CS 507.

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, CS 201, and ECE 383 each with a minimum grade of C-

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. Students who have successfully completed CS 416 may not also receive credit for CS 516.

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. Students who have successfully completed CS 417 may not also receive credit for CS 517.

CS520 Software Evolution
Hours 3
Study of techniques and tools for design-time and run-time software adaptation, including principles of reflection and metaprogramming, software modularity, metamodeling and software language engineering.

CS526 Intro Operating Systems
Hours 3
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, CS 201 and ECE 383 with a minimum grade of C-

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. Students who have successfully completed CS 428 may not also receive credit for CS 528.

CS534 Compiler Construction
Hours 3
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.

CS535 Computer Graphics
Hours 3
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. Students who have successfully completed CS 435 may not also receive credit for CS 535.

CS538 Computer Comm & Networks
Hours 3
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. Students who have successfully completed CS 438 may not also receive credit for CS 538.

CS542 Cryptography
Hours 3
This course will cover algorithms and concepts in cryptography and data security. We will undertake 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, etc.
CS543 Digital Forensics  
Hours 3  
Digital Forensics is an area of study that is rapidly growing in importance and visibility. It involves preserving, identifying, extracting, documenting and interpreting digital data. Though sometimes misunderstood, digital forensics is like other types of investigation. With the continuous rise of computer-related incidents and crimes, and the increased emphasis on homeland defense in this country, there is a growing need for computer science graduates with the skills to investigate these crimes. This course will introduce the topics of computer crime and digital forensics. Students will be required to learn different aspects of computer crime and ways in which to uncover, protect and exploit digital evidence.

CS544 Software Security  
Hours 3  
This course is an introduction to software security principles and practices. Topics for this course will include but not be limited to security architectures, defensive programming, web security, secure information flow, and common software vulnerabilities.

CS545 Software Reverse Engineering  
Hours 3  
Software Reverse Engineering is an area of study that is rapidly growing in importance and visibility. This course will reveal to students the challenges of monitoring and understanding software systems. During the course students will become familiar with the practice of software reverse engineering files by utilizing static and dynamic techniques, and methods in order to gain an understanding as to what impact a file may have on a computer system.

CS548 Network Security  
Hours 3  
Concepts concerning network security, including an examination of network security concepts, algorithms, and protocols.

CS551 Data Science  
Hours 3  
This course introduces fundamental concepts & techniques in data science as well as develops practical skills for data analysis in real-world applications. Given the multi-disciplinary nature of data science, the course will primarily focus on the advantages and disadvantages of various methods for different data characteristics, but will also provide some coverage on the statistical or mathematical foundations. Topics to cover include data preprocessing, data exploration, relationship mining, prediction, clustering, outlier detection, deep learning, spatial and spatiotemporal data analysis, text data analysis, and big data.

Prerequisite(s): MATH 237 with a grade of C- or higher; (MATH 355 or GES 255) with a grade of C- or higher

CS552 Information Retrieval  
Hours 3  
This course is an introduction to information retrieval principles and practices. The course will cover several aspects of Information Retrieval including, indexing, processing, querying, and classifying data. Also, retrieval models, algorithms, and implementations will be covered. Though the class will focus primarily on textual data, other media including images/videos, music/audio files, and geospatial information will be addressed. Topics for this course will include but not be limited to: text processing and classification, web search development techniques, and document clustering.

CS555 Social Media Data Analytics  
Hours 3  
The world is experiencing rapid growth in the amount of published data which come from different sources, including Social Media platforms. The availability of programming interfaces to these platforms allows for near real-time processing of these data for various purposes. This course will reveal to students the inherent challenges of analyzing Social Media data and introduce tools and techniques that are available to address them.

CS557 Database Management Systems  
Hours 3  
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, CS 201, and ECE 383 each with a minimum grade of C-

CS560 Introduction To Autonomous Robotics  
Hours 3  
Issues involved with the implementation of robot control software including motion, kinematics, simulation testing, sensor incorporation and unmodeled factors. Students who have successfully completed CS 460 may not also receive credit for CS 560.

Prerequisite(s): CS 300 or CS 426

CS561 Brain Computer Interface  
Hours 3  
This course involves the exploration of new forms of Human-Computer Interaction (HCI) based on passive measurement of neurophysiological states (cognitive and affective). These include the measurement of cognitive workload and affective engagement.

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.

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  
This course provides a graduate level presentation of Introduction to Computer Algorithms. Construction of efficient algorithms for computer implementation. Students who have successfully completed CS 470 may not also receive credit for CS 570.

CS575 Formal Languages & Machines  
Hours 3  
Regular expressions and finite automata. Context free grammars and pushdown automata. Recursively enumerable languages and turing machine. The Chomsky hierarchy. Students who have successfully completed CS 475 may not also receive credit for CS 575.
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. Students who have successfully completed CS 480 may not also receive credit for CS 580.

CS581 High Performance Computing
Hours 3
This course provides students with knowledge and fundamental concepts of high performance computing as well as hands-on experience of the core technology in the field. The objective of this class is to understand how to achieve high performance on a wide range of computational platforms. Topics include: optimizing the performance of sequential programs based on modern computer memory hierarchies, parallel algorithm design, developing parallel programs using MPI, analyzing the performance of parallel programs.

CS581 Organized 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 403 or 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 Analyze Operating Systems
Hours 3
Design of operating systems; advanced examination of synchronization, deadlock, virtual memory, and security; and parallel and distributed systems.
Prerequisite(s): CS 300

CS609 Database Management
Hours 3
An advanced view of database management systems, addressing both practical and theoretical aspects of database systems. The implementation and performance of the relational and NoSQL models will be examined, along with system techniques associated with transaction processing and recovery. Distributed databases, database security, and databases in clouds will also be discussed.
Prerequisite(s): CS 301
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.
Prerequisite(s): CS 470 or CS 570

CS613 Advanced 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

CS618 Wireless Mobile Network Protocol
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.
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 Independent Study
Hours 1-12
This course requires a written proposal that must be approved by the sponsoring faculty member before registration.

CS699 Dissertation Research
Hours 1-12
This independent research course partially fulfills required doctoral-level research dissertation hours toward the Ph.D. degree in Computer Science. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

DR250 Construction Materials & Proc
Hours 3
No description available

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 or PH 126, MATH 227 or MATH 247, and MATH 238

ECE320 Fundmntl 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 or computer engineering majors or to students who have earned credit for ECE 225.
Prerequisite(s): (PH 106 or PH 126) and (MATH 227 or MATH 247) and MATH 238

ECE326 Electric Networks
Hours 3
Prerequisite(s): ECE 225 and MATH 238 and MATH 355

ECE327 Audio Networks and Signals
Hours 3
Prerequisite(s): ECE 225 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 4
Semiconductor materials and properties, fundamentals of p-n junctions, diodes, diode circuits and operation, signal generators, rectifier and wave-shaping circuits, bipolar and field effect transistors, MOSFET, transistor DC circuit analysis and basic transistor amplifiers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Includes laboratory experiments.
Prerequisite(s): ECE 225 and (EN 102 or EN 103 or EN 121) 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 circuits. The lab deals with experiments illustrating concepts in electronics. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Includes laboratory experiments.
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 (CS 100 or CS 110 or RRS 101)

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 100 or CS 110 or RRS 101

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. Includes laboratory experiments.
Prerequisite(s): ECE 380

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

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 330 or MTE 271

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 451

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

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

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

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

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

**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

**ECE693 Special Topics**  
**Hours 1-9**  
Advanced topics of a specialized nature.

**ECE699 Dissertation Research**  
**Hours 1-12**  
No description available

**ENGR103 Engineering Foundations**  
**Hours 3**  
Introductory course for students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, sketching, teaming, oral and written technical communication, and the design process.  
Prerequisite(s): [(MATH 112 AND MATH 113) OR MATH 115]OR MATH 125 or higher with concurrency  
Prerequisite(s) with concurrency: MATH 112, MATH 113, MATH 115, MATH 125, MATH 126, MATH 145, or MATH 146

**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) minimum of 310, UA Subject Math Placement Test Score (PLAC) minimum of 467, ACT Math Subscore minimum of 24, old SAT Math Subscore minimum of 560, new SAT Math Subscore of 580, or MATH 110 with C- or higher.  
Prerequisite(s) with concurrency: MATH 112, MATH 113, MATH 115, MATH 125, MATH 126, MATH 145, or MATH 146 with a C- or higher
ENGR123 Engineering Foundations Honors
*UH*

Hours 3

Introductory course for Honors students in all engineering disciplines that provides the basic skills required for engineering with an emphasis on problem solving, sketching, teaming, oral and written technical communication, and the design process.

Prerequisite(s): UA ACT Subject Math Placement minimum score 565 or UA Placement Mathematics minimum score 440 or (MATH 112 and MATH 113) or MATH 115, or concurrent enrollment in MATH 125, MATH 126, MATH 145 or MATH 146

Prerequisite(s) with concurrency: MATH 125 or MATH 126 or MATH 145 or MATH 146

University Honors

ENGR161 Small-Scale Eng. Graphics

Hours 1

Two-dimensional representations of multiviews, sections, and auxiliaries will be generated.

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 or MATH 112

Prerequisite(s) with concurrency: MATH 113, or MATH 115, or MATH 125, or MATH 145, or MATH 126, or MATH 146, or MATH 227, or MATH 247, or MATH 238

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 or ENGR 123

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.

ENGR493 Experience in German Industry and Education

Hours 3

Students will present the project they worked on during their industrial internship and the results they achieved. They will also talk about the challenges and opportunities of participating in the German education system. Finally, they elaborate on how this influenced their personal development and soft skills. (8 seminars spread over 16 weeks).

EPIC101 Engineering Positive and Intentional Change
*UH*

Hours 1

This first course provides the opportunity to form an identity as an EPIC Scholar and connect with other EPIC Scholars. Students are introduced to new ideas and different viewpoints through respectful and inclusive discussions and explore how engineering and computer science relates to complex societal issues of our times.

University Honors

EPIC102 EPIC Freshman Seminar II
*UH*

Hours 1

This course continues the discussions from EPIC 101, focusing on the students further developing their identity as an EPIC Scholar, exploring their self-perception, identifying their own inherent biases and how such biases can limit their scope of impact as future engineers and computer scientists.

Prerequisite(s): EPIC 101

University Honors

EPIC201 EPIC Sophomore Seminar I
*UH*

Hours 1

Students practice being part of a larger community of engaged scholars, including focus on how to promote positive and intentional change. Students will gain experience collaborating as a transdisciplinary team and develop a set of team norms assuring greater levels of respect and inclusion.

Prerequisite(s): EPIC 102

University Honors

EPIC202 EPIC Sophomore Seminar II
*UH*

Hours 1

Students investigate a wide variety of complex, transdisciplinary social issues and explore how such issues can have longitudinal and disproportionate impacts on society or sectors of society, including within the context of the engineering and computer science professions.

Prerequisite(s): EPIC 201

University Honors

EPIC301 EPIC Junior Seminar I
*UH*

Hours 1

Students examine moral, legal, and ethical issues related to respect, diversity, equity, inclusion, and access, including those specifically associated with the engineering and computer science professions.

Prerequisite(s): EPIC 202

University Honors

EPIC302 EPIC Junior Seminar II
*UH*

Hours 1

Through case studies and design exercises, students explore how the engineering design process may be affected if engineers and computer scientists lack an understanding and representation of the full diversity of society.

Prerequisite(s): EPIC 301

University Honors
EPIC401 EPIC Honors Senior Thesis I  
*UH*  
**Hours 1.5**  
Students propose and initiate a team-based, transdisciplinary senior thesis project that will include soliciting a diversity of perspectives, promoting a culture of respect, diversity, equity, inclusion and justice, and sustainable and ethical solutions to complex social issues.  
Prerequisite(s): EPIC 302  
University Honors  

EPIC402 EPIC Honors Senior Thesis II  
*UH*  
**Hours 1.5**  
Students complete and present the results of a team-based, transdisciplinary senior thesis project that includes integration of a diversity of perspectives, promotion of a culture of respect, diversity, equity, inclusion and justice, and advocacy of sustainable and ethical solutions to complex social issues.  
Prerequisite(s) with concurrency: EPIC 401 with concurrency  
University Honors  

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.  
Prerequisite(s): ENGR 103 or ENGR 123  
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  

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.  

GES491 Special Topics  
**Hours 1-3**  
Research course designed to meet the needs of individual students.  

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.  

GES551 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.  

GES554 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.  

GES555 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  

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.
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.
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 or MATH 112
Prerequisite(s) with concurrency: MATH 113 or MATH 115 or MATH 125 or MATH 126 or MATH 145 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 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 or MATH 132

ME305 Thermodynamics II  
Hours 3
Introduction and analysis of different thermodynamic cycles and factors impacting these cycles. Topics include thermodynamic cycle analysis, thermodynamics of non-reacting and reacting mixtures, power cycles: basic considerations, gas power cycles, vapor and combined power cycles, gas mixtures, air-water vapor mixtures and air conditioning, and chemical reactions from thermodynamics point of view.
Prerequisite(s): ME 215
Prerequisite(s) with concurrency: MATH 227 or MATH 247

ME309 Heat Transfer  
Hours 3
An overview of the three modes of heat transfer, which includes steady and unsteady conduction, convection and radiation heat transfer.
Prerequisite(s): MATH 238 and ME 215 and AEM 311

ME349 Engineering Analysis  
Hours 3
Elements of statistics, matrix algebra, numerical analysis, and 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

ME350 Static Machine Components  
Hours 3
This course covers the analysis of stresses and deflections in machine elements like beam supports, rods, and drive shafts. Methods for describing the stresses through von Mises and various failure criteria are also covered. The topics of fatigue, fatigue strength, and endurance limit are also discussed. Also included is the design of connected joints covering both bolted and welded joints.
Prerequisite(s): AEM 250, AEM 251, and ENGR 161 or ENGR 171

ME351 Finite Element Lab  
Hours 1
This lab provides a working knowledge of finite element (FE) simulation. Upon completion each student will have the ability to set up and run a FE analysis of a realistic engineering assembly, while (a) optimizing computation efficiency,(b) optimizing result fidelity, and (c) employing sound engineering judgment in their assumptions.
Prerequisite(s): ENGR 161 and AEM 250
Prerequisite(s) with concurrency: Co-requisite: ME 350

ME360 Control Instrument Components  
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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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 systems 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  
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

ME377 Noise Control
Hours 3
Physical properties of noise; hearing and noise criteria measurement techniques; and noise-control fundamentals applied to practical problems are covered in this course. Both sound and vibration topics are discussed, including the spectral description of these phenomena. Applications of various estimation methods for characterizing room acoustics, such as reverberation time and room modes, are presented. Industrial applications are discussed throughout the course.
Prerequisite(s): MATH 238, and PH 106 or PH 126

ME380 Engineering Leadership I
Hours 1
Organizational leadership fundamentals for leaders of COE organizations regarding recruiting, motivating team members, managing resources and time, sponsor outreach, fundraising, scheduling, presentations, and budgeting. This is achieved through student led discussion, workshop service and project analysis. Intended that students follow up with Engineering Leadership II (ME 480).

ME383 Modern Manufactureg 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, joining processes, and additive manufacturing.
Prerequisite(s): AEM 250, MTE 271 and (ENGR 161 or ENGR 171)

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 Heating Ventilating Air-Conditioning
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

ME411 Computational Heat Transfer and Fluid Flow
Hours 3
Computational techniques to solve conservation equations representing heat transfer, mass transfer, and fluid flow processes. Topics include discretization methods for multi-dimensional diffusion and convection problems, programming and numerical techniques, and pressure-correction algorithms. Use of computer software for practical applications is also covered.
Prerequisite(s): ME 309

ME414 Principles of Combustion I
Hours 3
Energy sources, combustion systems, fuels and emissions, combustion thermodynamics, chemical kinetics, 1D reactors, combustion phenomena (ignition, flashback, blow-off, deflagration, detonation, etc.), laminar and turbulent premixed and non-premixed flames, and heterogeneous combustion.
Prerequisite(s): ME 309

ME416 Energy Conservation & Management
Hours 3
Analysis of energy systems with focus on evaluating baseline energy usage and best practices for efficiency. Topics include overview of utility rate schedules and fuel sources and supplies, economic analysis, lighting systems, industrial energy systems, heating, ventilation, air-conditioning systems.
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 305

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 and Maintainability Engineering
Hours 3
This course is designed to introduce upper-level undergraduate engineering students to reliability and maintainability measures, models, and prediction methods. The course also covers preventive maintenance techniques and philosophies such as FMEA and Reliability Centered Maintenance.
Prerequisite(s): GES 255 or GES 400 or ME 349, or permission of the instructor

ME424 Automotive Manufacturing
Hours 3
This course is designed to introduce engineering students to automotive manufacturing processes, technologies, and systems. Topics include current status of automotive manufacturing as well as methods of material processing, material handling systems, production facilities and fundamentals of robotics and automation as they relate to automotive manufacturing.
Prerequisite(s): ME 383 (with grade of C or better)
ME426 Internal Combustion Engines
Hours 3
This course introduces how internal-combustion engines work, and links analysis and testing techniques used for their design and development to subjects presented within the mechanical engineering curriculum. Laboratory activities serve to reinforce and illustrate analysis application as well as provide visual reference to common internal-combustion engine components.
Prerequisite(s): ME 305

ME430 Fuzzy Set Theory & Application
Hours 3
The course covers the basic concepts in fuzzy set theory, fuzzy logic, and approximate reasoning. Relation between fuzzy set theory, probability theory, and possibility theory is discussed. Applications of fuzzy set theory in manufacturing systems are outlined.
Prerequisite(s): GES 255 OR GES 400/500 OR ME 349, or permission of the instructor

ME440 Failure of Engineering Materials
Hours 3
Understand how structural components fail and apply the proper techniques for a failure analysis investigation. Demonstrate the ability to identify and differentiate fractographic features of material failure including overload and progressive failures (ductile, brittle, fatigue, creep, corrosion, wear). Practical failure analysis project experience included.
Prerequisite(s): AEM 250 and AEM 251 and MTE 271 and ME 350 and ME 383

ME448 Biomechanics of Human Movement
Hours 3
An overview of the broad field and major challenges of movement biomechanics; II. The principles of classical mechanics, anatomy, and physiology to describe, analyze, and assess human motion; and III. The engineering tools and the mathematical approaches applied to perform bio mechanical analysis of moving bodies.
Prerequisite(s): ME 349 Engineering Analysis; MATH 238 Applied Differential Equations 1; AEM 201 Statics; AEM 264 Dynamics

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

ME452 Fundamentals of Automotive Systems
Hours 3
Prerequisite(s): MATH 238

ME454 Automotive Electrical and Electronic Systems
Hours 3
Prerequisite(s): ECE 225 or ECE 320

ME456 Mechatronics
Hours 3
This is the introductory course to the field of Mechatronics and Robotics. It covers fundamentals of electronics required for mechatronics systems, introduction to microcontroller programming and interfacing, data acquisition, sensing and actuation. The course is a mix of instructional theory and lab, coupled with an independent exploratory project.
Prerequisite(s): ME 360 and ME 372

ME458 Modeling and Simulation of Automotive Systems
Hours 3
Introduction to modeling and simulation of automotive systems with various components including internal combustion engine, transmission, battery, electric motor, and chassis dynamics. Energy efficiency and dynamic performances of conventional, hybrid electric, and full electric vehicles are covered.
Prerequisite(s): ME 349: Engineering Analysis ME 372: Dynamic Systems

ME460 Energy Systems: Analysis and Measurement
Hours 4
Techniques of analysis and design of thermal systems including piping networks, heat exchangers, and pumping systems. Hands on experience with these systems through laboratory activities. Statistical design of experiments. Selection and use of basic thermal systems measurement instrumentation. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ME 309 & ME 360 - each must have a minimum grade of C-

Writing
ME470 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. An introduction to modeling vibrations in continuous systems is also included. Superposition methods utilizing waveform decomposition, such as Fourier Series, are presented for use in both solution methods and system analysis. Experimental techniques of vibration measurement are also introduced.
Prerequisite(s): ME 372 and AEM 250

ME471 Fundamentals Of Acoustics
Hours 3
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. The course introduces modeling, applications, and provides experience in acoustic and audio measurements and the associated instrumentation. The human auditory transduction mechanism is also studied along with physical parameters that describe how humans hear.
Prerequisite(s): MATH 238, and PH 106 or PH 126, and ECE 225 or ECE 320

ME472 Introduction to Robotic Kinematics
Hours 3
Teach the fundamental concepts in robot mechanics, planning and control, and enable the students to conduct basic kinematic and dynamic analysis for manipulator-type and mobile robots.
Prerequisite(s): ME 360 and ME 372

ME475 Control Systems Analysis
Hours 3
Classical feedback control system analysis, Laplace transform, transfer function, time response, proportional-integral-derivative control, root locus, frequency response, and computerized analysis. Also includes a brief introduction to modern control techniques.
Prerequisite(s): ME 349 and ME 372

ME480 Engineering Leadership II
Hours 2
Continues development of organizational leadership fundamentals initiated in ME 380 Engineering Leadership I regarding recruiting, motivating team members, managing resources and time, sponsor outreach, fundraising, scheduling, presentations, and budgeting among leaders working for COE organizations. This is achieved through student led discussion, workshop service and project analysis.
Prerequisite(s): ME 380

ME489 Mechanical Engineering 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 and ME 351 and MATH 238

ME490 Mechanical Engineering Design II
Hours 3
In this course, student teams serve as consultants to a 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 Mechanical Engineering Project
Hours 1-3
An individual analytical, experimental or design project. Research on an assigned problem culminates in a required report.

ME501 Mech Engr Analysis I
Hours 3
This course is designed to provide the graduate students with fundamental concepts of advanced mathematical analysis of continuous and discrete mechanical engineering systems. The course includes intensive discussion of ordinary differential equations, Fourier analysis, and advanced vector calculus with applications to dynamic systems, heat transfer as well as fluid and solid mechanics.

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
A first course in heat transfer at graduate level. Review of undergraduate treatment of conduction, convection, and radiation modes of energy transfer, with emphasis on theoretical concepts. Topics may include separation of variables solutions, superposition concepts, development of boundary layer equations, similarity solutions, spectral dependence of surface radiative properties, radiation exchange in diffuse, gray enclosures.
Prerequisite(s): ME 309 and AEM 311
Course Inventory

ME511 Computational Heat Transfer and Fluid Flow
Hours 3
An introductory course providing computational background and experience to solve realistic heat transfer and fluid flow problems. Course will provide background on numerical techniques, and exposure to computer programming and commercial computational fluent dynamics (CFD) software.

ME514 Principles of Combustion I
Hours 3
Energy sources, combustion systems, fuels and emissions, combustion thermodynamics, chemical kinetics, 1D reactors, combustion phenomena (ignition, flashback, blow-off, deflagration, detonation, etc.), laminar and turbulent premixed and non-premixed flames, and heterogeneous combustion.

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.

ME522 Reliability Maint & TPM
Hours 3
No description available.

ME526 Internal Combustion Engines
Hours 3
This course introduces how internal-combustion engines work, and links analysis and testing techniques used for their design and development to subjects presented within the mechanical engineering curriculum. Laboratory activities serve to reinforce and illustrate analysis application as well as provide visual reference to common internal-combustion engine components.
Prerequisite(s): ME 305

ME540 Failure of Engineering Materials
Hours 3
Understand how structural components fail and apply the proper techniques for a failure analysis investigation. Demonstrate the ability to identify and differentiate fractographic features of material failure including overload and progressive failures (ductile, brittle, fatigue, creep, corrosion, wear). Practical failure analysis project experience included.

ME548 Biomechanics of Human Movement
Hours 3
An overview of the broad field and major challenges of movement biomechanics; II. the principles of classical mechanics, anatomy, and physiology to describe, analyze, and assess human motion; and III. the engineering tools and the mathematical approaches applied to perform bio mechanical analysis of moving bodies.

ME552 Fundamentals of Automotive Systems
Hours 3
Prerequisite(s): MATH 238 Differential equations.

ME556 Mechatronics
Hours 3
This is the introductory course to the field of Mechatronics and Robotics. It covers fundamentals of electronics required for mechatronics systems, introduction to microcontroller programming and interfacing, data acquisition, sensing and actuation. The course is a mix of instructional theory and lab, coupled with an independent exploratory project.

ME558 Modeling and Simulation of Automotive Systems
Hours 3
Introduction to modeling and simulation of automotive systems with various components including internal combustion engine, transmission, battery, electric motor, and chassis dynamics. Energy efficiency and dynamic performances of conventional, hybrid electric, and full electric vehicles are covered.
Prerequisite(s): ME 349: Engineering Analysis ME 372: Dynamic Systems

ME560 Thermal Fluid Measurement and Analysis
Hours 3
Methods for acquisition and analysis of thermal systems-based measurements and actuator controls. Practical applications of various programming interfaces and embedded devices. Assignments focus on thermal-fluid measurement/actuator control topics applied to student’s research topics. Assignment and lecture material will be supported by benchtop demonstrations of sensors and actuators in-class as appropriate.

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. An introduction to modeling vibrations in continuous systems is also included. Superposition methods utilizing waveform decomposition, such as Fourier Series, are presented for use in both solution methods and system analysis. Experimental techniques of vibration measurement are also introduced.

ME571 Fundamentals Of Acoustics
Hours 3
Fundamental physical principles underlying wave propagation and resonance in mechanical systems. The course introduces modeling, applications, and provides experience in acoustic and audio measurements and the associated instrumentation. The human auditory transduction mechanism is also studied along with physical parameters that describe how humans hear.
ME572 Introduction to Robotic Kinematics
Hours 3
Teach the fundamental concepts in robot mechanics, planning and control, and enable the students to conduct basic kinematic and dynamic analysis for manipulator-type and mobile robots.

ME575 Control Systems Analysis
Hours 3
Classical feedback control system analysis, Laplace transform, transfer function, time response, proportional-integral-derivative control, root locus, frequency response, and computerized analysis. Also includes a brief introduction to modern control techniques.

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.

ME591 Special Problems
Hours 3
This course covers topics not currently covered by an existing course in the catalog and is usually associated with a faculty member’s specialty area. Content varies by section and semester.

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
This independent research course partially fulfills required master’s-level research thesis hours toward the master’s degree in Mechanical Engineering. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field. Variable hours.

ME605 Classical Thermodynamics
Hours 3
Classical macroscopic thermodynamic analysis of systems, pure substances, mixtures, and reacting systems.

ME607 Conduction Heat Transfer
Hours 3
Transient, multidimensional heat conduction in various geometries, 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.

ME670 Advanced Vibrations
Hours 3
Covers advanced concepts in mechanical vibration analysis. Topics include introduction to variational approach and energy methods applied to motions of deformable body in three dimensions; vibrations of distributed-parameters systems including strings, bars, shafts, beams, membranes, and plates. Covers approximate methods, Rayleigh’s Quotient, Rayleigh-Ritz method, method of functions expansion, Galerkin’s and assumed mode methods, design and analysis of a variety of vibration-control systems, and recent advances in vibration of micro- and nano-scale systems.
Prerequisite(s): ME 470 or ME 570

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.

ME695 Graduate Seminar
Hours 1
This is a first course in Graduate Research Seminar series offered by the Department of Mechanical Engineering. Students are exposed to a variety of lectures.

ME696 Graduate Seminar
Hours 1
This is a second course in Graduate Research Seminar series offered by the Department of Mechanical Engineering. Students are exposed to a variety of lectures.
Prerequisite(s): ME 695

ME697 Graduate Seminar
Hours 1
This is a third course in Graduate Research Seminar series offered by the Department of Mechanical Engineering. Students are exposed to a variety of lectures.
Prerequisite(s): ME 695 and ME 696
ME699 Dissertation Research
Hours 1-12
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree in Mechanical Engineering. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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 or ENGR 123, 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 100 or 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 Phenomena in Metallurgy
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

MTE362 Thermodynamics Of Materials
C
Hours 4
The fundamentals of thermodynamics applied to typical metallurgical processes and reactions, heterogeneous equilibrium, behavior of solutions, standard states, phase diagrams. Emphasis is placed on the use of basic thermodynamic data, graphical representations of thermodynamic data and equilibrium, and the application of using computational tools to solve problems. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): MTE 252

Computer Science

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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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, agglomeration, 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 or EC 112; MTE 362, MTE 373, MTE 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 250 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

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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE519</td>
<td>Solidification Science</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MTE539</td>
<td>Metallurgy Of Welding</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>MTE546</td>
<td>Macroscopic Transport Mat Proc</td>
<td>3</td>
<td>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 Prerequisite(s) with concurrency: MTE 271</td>
</tr>
<tr>
<td>MTE549</td>
<td>Powder Metallurgy</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MTE550</td>
<td>Plasma Processing of Thin Films</td>
<td>3</td>
<td>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 105 or with permission of instructor.</td>
</tr>
<tr>
<td>MTE556</td>
<td>Advanced Mechanical Behavior</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>MTE562</td>
<td>Metallurgical Thermodynamics</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>MTE567</td>
<td>Strengthening Mechanisms in Materials</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>MTE579</td>
<td>Advanced Physical Metallurgy</td>
<td>3</td>
<td>Graduate-level treatments of the fundamentals of symmetry, crystallography, crystal structures, defects in crystals (including dislocation theory), and atomic diffusion.</td>
</tr>
<tr>
<td>MTE583</td>
<td>Adv Structure Of Metal</td>
<td>3</td>
<td>Graduate-level treatments of symmetry, crystallography, crystal structures and defects in crystals. Application of analytical techniques to study crystal structures and textures in materials.</td>
</tr>
<tr>
<td>MTE585</td>
<td>Materls At Elevated Temps</td>
<td>3</td>
<td>Influence of temperatures on behavior and properties of materials.</td>
</tr>
<tr>
<td>MTE587</td>
<td>Corrosion Science &amp; Engr</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>MTE591</td>
<td>Special Problems</td>
<td>1-4</td>
<td>Advanced work of an investigative nature. Credit awarded is based on the work accomplished.</td>
</tr>
<tr>
<td>MTE592</td>
<td>Special Problems</td>
<td>1-3</td>
<td>Advanced work of an investigative nature. Credit awarded is based on the work accomplished.</td>
</tr>
</tbody>
</table>
MTE598 Non Thesis Research Hours
Hours 1-12
Credit is based on the amount of work undertaken on non-thesis related research in a metallurgical and materials engineering area, the outcome of which is a define result presented in a report, paper, manuscript, or formal presentation at a conference or an MTE seminar. Instructor permission required. No prerequisites required.

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 Material
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.

MTE698 Non Dissertation Research Hours
Hours 1-12
Credit is based on the amount of work undertaken on non-dissertation related research in a metallurgical and materials engineering area, the outcome of which is a define result presented in a report, paper, manuscript, or formal presentation at a conference or an MTE seminar. Instructor permission required.

MTE699 Dissertation Research
Hours 1-12
No description available

Honors College Courses

RRS101 Randall Research Scholars Freshman Seminar 1
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

RRS102 Randall Research Scholars Freshman Seminar 2
Hours 4
Taken by first-year students in the Randall Research Scholars Program, this second freshman year course provides an accelerated introduction to additional software as well as project management techniques. Open only to students admitted to the Randall Research Scholars Program. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): RRS 101 with a minimum grade of B.
Computer Science, University Honors
RRS201 Randall Research Scholars Sophomore Research Seminar 1
C, UH

Hours 3

Sophomore RRS research seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects. Computing proficiency is required for a passing grade in this course.

Prerequisite(s): Successful completion of RRS 102 with a minimum grade of B+.

Computer Science, University Honors

RRS202 Randall Research Scholars Sophomore Research Seminar 2
UH

Hours 3

Sophomore RRS research seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects.

Prerequisite(s): Successful completion of RRS 201.

University Honors

RRS301 Randall Research Scholars Junior Research Seminar 1
UH

Hours 3

Junior RRS seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects.

Prerequisite(s): Successful completion of RRS 201.

University Honors

RRS302 Randall Research Scholars Junior Research Seminar 2
UH

Hours 3

Junior RRS seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects.

Prerequisite(s): Successful completion of RRS 201.

University Honors

RRS425 Randall Research Scholars Research Project
UH

Hours 1-6

This is an independent study course, with variable credit. Students develop a research project contract with semester project deliverables to the RRS office by the second Friday of the semester. Students meet with their project supervisors on a regular basis throughout the semester. Prior approval from the RRS Program Director is required to register for this course.

Prerequisite(s): Successful completion of RRS 201.

University Honors

RRS451 Randall Research Scholars Senior Research Seminar 1
UH

Hours 3

Senior RRS seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects.

Prerequisite(s): Successful completion of RRS 201.

University Honors

RRS452 Randall Research Scholars Senior Research Seminar 2
UH

Hours 3

Senior RRS seminar where students work as undergraduate research assistants with faculty members on computer-oriented research projects.

Prerequisite(s): Successful completion of RRS 201.

University Honors

UFE101 Understanding Poverty
UH

Hours 3

This seminar on the legal issues, economics, history, politics, and sociology of poverty will begin developing the students’ understanding of systemic injustices and the need for social change, as well as provide context for experience in meaningful community engagement in future semesters.

University Honors

UFE102 Social Investing and the Role of Innovation
UH

Hours 3

Seminar experience in which knowledge gained during UFE 101 is applied through the hands-on experience of assessing needs, and designing projects to intervene in systemic poverty in direct partnership with community leaders in the Black Belt region of Alabama.

University Honors

UFE103 The Black Belt Experience
UH

Hours 3

The UFE Freshman cohort lives and works in the Black Belt of Alabama on projects developed during UFE102. This course addresses students’ abilities to engage with continuing questions of values, ethics, and aesthetics as they relate to their work in the community—and ongoing work in and out of the classroom when we return to campus. Students examine these questions through approved service work and deep analysis in the humanistic fields of literature, philosophy, religious studies, speech, foreign languages, art, music, and dance, among others. This course is broad in scope and content, representing the convergence of many individual student experiences in one community.

Prerequisite(s): UFE 101 or UFE 102

University Honors
UFE201 Systemic Change Through Social Entrepreneurship

Hours 1

This course will expand on the students’ understanding of systemic change. Students will examine theories of systemic change through highlighted successes of change agents who have effected change in their systems of influence. Throughout the semester, students will develop their own plan for enacting change in their system of choice, while also exploring ideas of ethical leadership, emotional resiliency, and creativity.

University Honors

UFE202 Social Innovation for Collective Impact

Hours 1

Seminar experience in which knowledge gained and plans developed during UFE 201 are applied through the hands-on experience of assessing systemic needs, and implementing projects in direct partnership with leaders in the systems of the students’ choice.

University Honors

UFE301 Leadership and Change: A Global Perspective

Hours 1

This course will focus the students’ understanding of systemic change in the global perspective. Specifically, students will become familiar with the international community, including political histories, assessments of strengths and needs, and opportunities for effecting change.

University Honors

UFE302 Making an Impact in a Global Society

Hours 1

Following the classical purpose of education, the production of good citizens, the University Fellows Experience strives to prepare the most able and dedicated students at The University of Alabama for remarkable lives of leadership in and service to their community, state, nation, and world. Thomas Henry Huxley wrote, “The great end of life is not knowledge, but action.” Similarly, our mission is to shape and enable students with exceptional innate gifts and abilities to use the knowledge gained for leadership and service. It is expected that throughout their lives, University Fellows will make a difference for the good, again and again. Through this course students will explore and challenge their worldviews while also furthering their understanding of their roles as global citizens. Students also will examine issues and challenges of systemic change on the global scale and evaluate cases of leadership that affected change for the good. Guest speakers with pertinent expertise will be a critical contribution to the learning environment.

Prerequisite(s): UFE 201, UFE 202, or UFE 301

University Honors

UFE303 Making an Impact in a Global Society

Hours 1

The University Fellows Experience strives to prepare students for remarkable lives of leadership in and service to their community, state, nation, and world. Three questions guide the program: Engaged citizenship: What does caring deeply about the world look like? Empathetic, dynamic leadership: What are best practices for effective leadership in today’s highly dynamic and diverse environment? Ethical, transformative scholarship: What does it mean to be a transformative, ethical scholar? Through a study-abroad experience in (selected country). This course offers students the opportunity to ponder and confront the issues and challenges related to systemic change on the global scale. Students also explore and challenge their worldviews while broadening their understanding of their roles as global citizens.

Prerequisite(s): UFE 302

Prerequisite(s) with concurrency: UFE 302

University Honors

UFE350 Black Belt Experience

Hours 3

The UFE freshman cohort lives and works in Perry County, Alabama for three weeks during the month of May. During this time, projects developed during UFE 102 are implemented and relationships with community members are built.

University Honors

UFE400 Magnum Opus Experience

Hours 3

The Magnum Opus Experience is a course that provides a context for University Fellows to apply the knowledge, skills, and attitudes acquired over their courses of study to the planning, development, completion, and evaluation of an academically-based or inspired project. Students will develop a senior practicum project plan in partnership with a faculty advisor. Project examples include: -Creating a social enterprise, -Launching an organization or movement associated with academic focus, -Conducting community-based research, -Producing a research paper, or -Making a documentary or book.

University Honors

UH100 Honors Year One: Honors Connections

Hours 2

Honors Connections introduces first-year students to the UA Honors College experience. The aim of this course is to aid each student in finding and interrogating their place within the Honors College, the University of Alabama and the greater community. Students will learn and practice the key concepts of engaged scholarship, including critical and creative thinking, ethical and empathic dialogue, and collaborative and inclusive leadership. Students will gain a practical understanding of the Honors College and their role within it, while also building relationships that foster continued participation in the kinship of scholars.

University Honors
UH102 Freshman Common Book Experience

Hours 1

The Freshman Common Book Experience involves our communal discussion of issues raised in the selected book for the incoming freshman class. The overall theme of the course is to introduce students to the seminar experience—one of the core principles of an Honors education. The skills that are practiced in a seminar provide the opportunity to grow in the timeless method of learning where deep, critical reading is followed by a discussion of texts. Further, the seminar provides the opportunity for students to practice speaking about and forming critiques of the ideas encountered. In a seminar, there is no final authority on matters of discussion. Instead, the purpose is learning to be a better critical thinker, listener, and interpreter through the seminar experience itself.

Prerequisite(s) with concurrency: UH 100 OR UH 110 OR BCE 102 OR UFE 101 OR BUI 101 OR GBA 171 OR GBA 172 OR IDMD 101 OR RRS 101

University Honors

UH103 Honors Action

Hours 1

In this six day, one-credit hour introductory course, students are immersed in the foundations of the Honors College and community engagement. Students attend a daily lecture series followed by small discussions. The guest lectures and discussions address issues such as poverty, cultural capital, engaged citizenship, and service learning. In addition to the lecture series and small group discussions, students participate in daily service-learning projects at local public schools. The Honors College common book, in addition to supplementary resources as provided, will be assigned reading for this course and will link to the course themes from the lectures and service projects.

University Honors

UH111 Honors Common Book

Hours 1

In this course, students will study and discuss the Honors Common Book (chosen annually).

Prerequisite(s) with concurrency: UH 100 OR UH 110 OR BCE 102 OR UFE 101 OR BUI 101 OR GBA 171 OR GBA 172 OR IDMD 101 OR RRS 101

University Honors

UH121 Leadership Lessons from Jazz

FA, UH

Hours 1

Through Frank Barrett’s Yes to the Mess and Wynton Marsalis’ Moving to Higher Ground, we will explore examples of how the world’s best, most admired leaders not only survive and thrive in today’s rapidly changing world, they create and innovate by leading their teams using the same principles and philosophies that jazz musicians do. We will explore how these principles, philosophies and actions, at the core of jazz music and culture, can help you become a better, more successful leader, and to be more stable in an increasingly unstable world. Experiences with the actual music are a bonus, but at the same time, are necessary and integral to understanding how these concepts apply to non-musical environments.

Prerequisite(s) with concurrency: UH 100 OR UH 110 OR BCE 102 OR UFE 101 OR BUI 101 OR GBA 171 OR GBA 172 OR IDMD 101 OR RRS 101

Fine Arts, University Honors

UH129 Honors Special Topics

Hours 1-6

Special Topics.

Prerequisite(s) with concurrency: UH 100 OR UH 110 OR BCE 102 OR UFE 101 OR BUI 101 OR GBA 171 OR GBA 172 OR IDMD 101 OR RRS 101

University Honors
UH130 The Legacy of Kings: Judeo-Christian Kingship in Pop Culture  
**HU, UH**  
**Hours 3**  
This course explores the Ascension Story, an adaptation of Joseph Campbell’s “Hero’s Journey” through an in-depth comparative analysis between a) Judeo-Christian monarchical concepts as recorded in the Hebrew/Christian sacred texts (primarily 1 Samuel-2 Chronicles, prophetic books, and gospels) and b) Final Fantasy XV, a 2016 video game that reimagines those same kingship narratives. Topics addressed within the Ascension Story include the Trials of a King, Kingly Relationships, a King’s Responsibility, and a King’s Deliverance of Order to Chaos. Concepts of ancient near-eastern kingship, Levitical priesthood, religious prophecy, and messianic hope will be fully analyzed. The course addresses questions of moral virtue and leadership ethics in the humanistic fields of religious literature, theological studies, and secular and sacral kingship archetypes. This course also examines the broad implications that sacral kingship/leadership has on cultural identity, with attention to Egyptian, Mesopotamian, and Jewish narratives. Rather than primarily measuring proficiency in writing, this course emphasizes the history and appreciation of sacred texts and ancient near-eastern kingship narratives.

Prerequisite(s) with concurrency: UH 100 or UH 110 (concurrent enrollment allowed)

Humanities, University Honors

**UH140 Narratives of Change**  
**HU, UH**  
**Hours 3**  
This course will explore the history of storytelling and how stories and storytelling connect people, create cultural understanding, and effect change. This course will take a global, analytic perspective on storytelling and American narratives. We will develop a vocabulary for discussing the relationships between narratives and social change and analyze written and oral narratives and the cultural and historical contexts that surround them. We will concentrate specifically on narratives of marginalized writers in American literature, various narrative forms of 20th century and modern American literature, and the Honors College Common Book. We will also explore how we shape and interact with narratives in our own lives, examining the question, “Who are you?”.

Prerequisite(s) with concurrency: UH 100 or UH 110 or BCE 102 or UFE 101 or BUI 101 or GBA 171 or GBA 172 or IMD 101 or RRS 101

Humanities, University Honors

**UH141 Work, Play, and Meaning**  
**HU, UH**  
**Hours 3**  
This course explores how work and leisure influence our everyday lives. Are we governed by the necessity of work, while we pursue momentary havens of leisure? Or, is it the other way around? Is it because of the necessity of leisure in our lives that we pursue work at all? When are we most ourselves? From Nietzsche's The Birth of Tragedy which explored the antagonism between the Apollonian and Dionysian spirits, to Max Weber's The Protestant Work Ethic and the Spirit of Capitalism, to modern movies such as Office Space, the tensions between, not just work and leisure, but ultimately meaning as well, provide productive spaces for exploration.

Prerequisite(s) with concurrency: UH 100 or UH 110 or BCE 102 or UFE 101 or BUI 101 or GBA 171 or GBA 172 or IMD 101 or RRS 101

Humanities, University Honors

**UH142 The American Working Class**  
**UH**  
**Hours 2**  
This course will delve into two accounts of what it is like to live in the American working class: Nickel and Dimed (Barbara Ehrenreich), which provides an eye-opening, first-hand account of what it is like to hold a minimum-wage job in three American cities in the late 1990s, and Deer Hunting with Jesus (Joe Bageant), in which the author uses humor in his account of what he learned since moving back to his small hometown of Winchester, Virginia after living in other parts of the country. The purpose of this course is to get students to think outside of the binary (that you have to be liberal or conservative to care about issue x) and to provoke classroom discussions in which students are able to process the subjects and themes that the texts reveal and to learn how others’ lived experiences may have influenced their beliefs and perception.

Prerequisite(s) with concurrency: UH 100 or UH 110 (concurrent enrollment allowed)

University Honors

**UH143 Language, Society, and Transformation**  
**UH**  
**Hours 3**  
This course is an introduction to the study of the influence of society and language on each other as well as on individuals. Throughout the course, we will explore the role of language in society and in our own personal development. We will pay particular attention to the influence learning an additional language has on us – before and during our experiences in other communities. That is, we will reflect on how acquiring another language may change us and impact our own identities. Additionally, we will further refine our understanding of culture and knowledge via our discussions. Throughout the semester we will strive to understand the impact of our varied linguistic experiences in other countries and communities on our own personal development and on society.

Prerequisite(s) with concurrency: UH 100 or UH 110 (concurrent enrollment allowed)

University Honors
UH180 Mosaic: An Experimental Multimedia Project

*UH*

**Hours 3**

An experimental magazine class that produces, from scratch, an online magazine, website and social media. Students can specialize in writing, editing, graphic design, photography/videography and/or website or social media. The class also helps both on and off campus organizations with multimedia projects that need such expertise as a support service. Students also focus on examining the nature of the communication functions of their creative work with other Mosaic students and with non-creative sources and subjects they interact with in their work. Student staff will work with the aid of UA staff/faculty instructors and advisers.

Prerequisite(s) with concurrency: UH 100 OR UH 110 OR BCE 102 OR UFE 101 OR BUI 101 OR GBA 171 OR GBA 172 OR IDMD 101 OR RRS 101

University Honors

UH200 Life as a Scholar

*UH*

**Hours 2**

This course takes "the idea of a scholar" as its theme. Students will examine definitions of education and the university, contrasts and conflicts for students and scholars within academic life, and the "life of the mind" conceptualization of higher education as preparation for lifelong learning. These themes will be explored through detailed readings and class discussions. Moreover, it includes a strong component of comparing and contrasting our readings and class discussions with scholarly life at the University of Alabama, both current and historical.

Prerequisite(s): UH 100 or UH 110 or BCE 102 or UFE 101 or BUI 101 or GBA 171 or GBA 172 or IDMD 101 or RRS 101

University Honors

UH201 Classics & Western Culture

*HU, IH, UH*

**Hours 3**

This course introduces students to the western literary canon from the ancient to the medieval period. Writers to be studied include Homer, Sophocles, Virgil, and Dante. Satisfies HU core curriculum designation.

Prerequisite(s) with concurrency: UH 200 or BUI 102 or GBA 271 or GBA 272 or IDMD 102 or RRS 201 or (UFE 201 AND UFE 202)

Humanities, International Honors, University Honors

UH204 Classics & African Culture

*UH*

**Hours 3**

Examines the impact of the classics on African culture, focusing on reading and writing about the concept of identity in African civilizations and cultures. Students will become familiar with classic works that represent current themes in African culture and societies such as oral tradition, use of language, community, post-colonial influence, and gender roles.

Prerequisite(s) with concurrency: UH 200 or BUI 102 or GBA 271 or GBA 272 or IDMD 102 or RRS 201 or (UFE 201 AND UFE 202)

University Honors

UH205 Social Foundations of Community Engagement

*HU, UH*

**Hours 3**

As a “prelude” to service learning, students will understand the philosophical structure of “public goods” (e.g., education, health care, housing, etc.) and how they relate to specific needs in public spaces which are used for the betterment of communities. Students will explore the possible causes of political, educational, social, and economic inequalities as well as the benefits, responsibilities and limits of the service response to public problems. The course provides a basic understanding of what the purpose of “public goods” are and how society actualizes these currencies.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

Humanities, University Honors

UH206 Foundations of Engaged Scholarship Development

*UH*

**Hours 1**

Students will understand the philosophy of education as it relates to the building of curriculum and pedagogy. Students will be exposed to the foundations of education in American Society. Students will be required to spend 5 hours in Tuscaloosa City and County Public School Systems (background check required). This is a 1 hour credit course.

Prerequisite(s): UH 205

University Honors

UH208 The Scholar’s Life after Graduation

*UH*

**Hours 3**

What’s next for you after graduation? Is it graduate or professional school or will you be headed into the workforce? Do you have a plan for how to develop and market your most successful personal and professional self? This course will provide students with the knowledge and resources needed to prepare for life after their undergraduate academic career. Students will explore concepts of career readiness, articulate their personal strengths/weaknesses/values, set and pursue personal and professional goals, and develop a strong professional portfolio. This course also seeks to help students understand the importance of personal branding and networking, effective communication, collaboration with an array of persons and backgrounds, emotional intelligence, and leadership.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors
UH211 Power  
SB, UH  
Hours 3  
This course will focus on the notion of cultural and social power. Course materials will investigate historical and contemporary negotiations of power and how power is disseminated within cultural contexts. Students will be asked to critically examine how individual power and systemic power operate in their own lives. This critique will certainly begin with an examination of the students own identity and agency within their contexts. The course is concerned primarily with social structures, processes, institutions and how they hold and disseminate power.  
Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)  
Social and Behavioral Sciences, University Honors

UH215 Moral Forum  
HU, UH  
Hours 3  
This class seeks to introduce University Honors Program students to moral discourse and civil deliberation via the analysis of one particular controversial moral resolution. Student teams will then participate in the Moral Forum Tournament, where they will be required to use ethical theories to argue for and against the resolution. The moral issue to be examined in the course changes each semester. Topics are based on current events that offer varied, balanced arguments from multiple ethical perspectives.  
Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)  
Humanities, University Honors

UH221 Improvisation in Life: Concepts, Techniques, and Philosophy of Improvisation Through Music  
FA, UH  
Hours 3  
A course in the practicality / functionality of improvisation via sound with an eye toward philosophical aspects of improvisation in all the arts and the relationship to other non-arts related disciplines. The goal is to generate creativity and new perspectives in the student’s primary course of study and life, in general, by exploring the art of improvisation.  
Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)  
Fine Arts, University Honors

UH222 Art for Life's Sake  
FA, UH  
Hours 3  
The Art for Life's Sake course is an exploration of the artistic process and its application in everyday life. Our primary goals are to study, communicate, and increase the practical application and implementation of art philosophy, core concepts, and principles of creation into both academics and everyday life; synthesizing creativity, open-mindedness, authenticity, and innovation into a holistic, mindful approach, with a concerted effort to increase not only human technological and physical progress, but also psychological freedom, mental fitness and general well-being. Art is a process of exploration, externalized. Human beings are inherently artistic. Therefore, any human activity can be expressed artfully. Our goal is, simply put: to become aware of this phenomenon and learn to practice it in all aspects of our lives.  
Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)  
Fine Arts, University Honors

UH224 The Indestructible James Bond  
UH  
Hours 3  
This course introduces students to both the imaginary world of James Bond and the real life of the novelist Ian Fleming. The course will also explore real-life British commando assignments, including the work of the Special Operations Executive (SOE), whose members included Peter Fleming, Ian’s elder brother. The famous 007 films vary widely in quality, but Fleming’s novels were painstakingly researched and carefully written. Students will read several novels and watch a few films.  
Prerequisite(s) with concurrency: UH 200 (Concurrent Enrollment Allowed)  
University Honors

UH229 Honors Special Topics  
UH  
Hours 1-6  
Special Topics.  
Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)  
University Honors
UH230 UA Honors in New Zealand

**UH**

**Hours 3**

Students will examine contemporary New Zealand neighborhoods and communities by purposefully employing ‘engaged’ and interactive discussions and conversations with (some of the) New Zealanders they encounter each day from a wide range of demographics, i.e. an ethnographic/communications approach. Students will rely on an instructor-generated list of talking points as a general guide. Classes will assemble most, but not all, days in New Zealand to debrief and discuss the day’s conversations with the goal of (a) progressively getting a better understanding (than tourists) of New Zealand community life and (b) progressively getting better at asking people from another culture valuable (instead of predictable) questions and assessing, and following up on, answers. Students will also interact with New Zealand students and academic faculty to help build their understanding of neighborhoods and communities.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors

UH231 UA in Germany Honors

**UH**

**Hours 3**

The UA in Germany 2020 Honors program is designed to provide students with the opportunity to examine the many facets of recent history and of the contemporary situation of German society and engage in meaningful, reflective dialogue with international faculty and students through their experiences while visiting academic, cultural, business and industrial institutions in Karlsruhe, Strasbourg (F), Cologne, Hamburg, Berlin, Munich, and Stuttgart.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors

UH232 UA Honors in Ghana

**UH**

**Hours 3**

Ghana was the first country south of the Sahara to gain independence from British colonial rule and it continues to play a leading role in African development and prosperity to this day. This study abroad course functions as a broad transdisciplinary and multidisciplinary approach to the study of the culture, history, economics, politics, sociology and the natural environment of Ghana using innovation as a connective device. The class highlights Ghana's forward-thinking and progressive past, using the nation as a placeholder for both the future potential and current realities of homegrown growth on the continent. Students will experience Ghana's progress, seeing first-hand how technological innovations are affecting social and political realities across its width and breadth, and also have the opportunity to play a role in its development as they work alongside local university students in Industry and Innovation Unit at the University of Cape Coast to help develop creative solutions to existing problems. As a bonus, the course will provide a number of vectors for study and learning in various areas of Ghana; including visits to museums, historical sites, African markets, villages, cultural centers and lectures by Ghanaian professors, professionals, practitioners and parliamentarians.

Prerequisite(s) with concurrency: UH 200 (concurrent enrollment allowed)

University Honors

UH240 Origins of Western Thought: Epic Origins

**HU, UH**

**Hours 3**

In this course, students study and discuss the foundations of Western thought through study of ancient and classical epic poetry (in English translation). Works studied may include The Iliad, The Odyssey, The Theogony, The Aeneid, The Metamorphoses, and On the Nature of Things.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

Humanities, University Honors

UH241 Origins of Western Thought: Athens

**HU, UH**

**Hours 3**

This course, students study and discuss the foundations of Western thought through study of the history, philosophy, and drama (all in English translation) of classical Athens. Authors studied may include Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Aristotle, and Thucydides.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

Humanities, University Honors
UH242 Love, Sex, Marriage, and Family: A Transdisciplinary Exploration  
**HU, UH**  
Hours 3  
This course will study and discuss theories and practices of love, sex, marriage, and the family from a variety of disciplinary perspectives (literature, film, sociology, history, anthropology, psychology, and/or philosophy). Readings and discussions will focus on the ethics of courtship, gender and sexuality, marriage, and parenting.  
Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)  
Humanities, University Honors  

UH243 The King James Bible  
**HU, UH**  
Hours 3  
Often considered the most influential book ever published, the King James Version of the Bible (1611) is a monumental cultural achievement. It encapsulates the Renaissance spirit of eloquence, and four hundred years after its publication, it remains the most frequently used translation of the Bible in the English-speaking world, especially in America. Given the historical, political, literary, and cultural prominence of this translation, this course takes a transdisciplinary approach to understanding how the book came into existence and what accounts for its popularity. The course begins by studying the complex history of how this translation came to be commissioned, who the translators were, how the translation was accomplished, and the politics involved in the translation. The course then critically studies the structures and styles of the KJB, with particular focus on examining genres and performing close readings of texts, as well as considering the political work often attributed to the text (i.e., how the book has been used to enslave and emancipate enslaved people, how it has been used to create and maintain patriarchy, etc). The course ends by paying particular attention to the history of the KJB in the United States, as we discuss the so-called “KJB-Only Movement.” Therefore, rather than studying Jewish or Christian theology, this course aims to introduce students to issues surrounding the material book history of the KJB, its immense literary aesthetic, and its cultural influence.  
Prerequisite(s) with concurrency: UH 200 (concurrent enrollment allowed)  
Humanities, University Honors  

UH244 Antiquity to Modernity  
**HU, UH**  
Hours 3  
This course examines the impact of the ancient world on the life of modern women. More specifically, we examine the evolution of women’s life, starting from ancient Greece (where we have the most complete evidence from sources) and following its trajectory to the modern day. Ancient Greece, known for catapulting civilization to higher levels with its invention of democracy, political science, philosophy, the codification of laws and the professionalization of medicine among other achievements, shaped the world, for better or worse, as we know it today. This same culture, however, has excluded women from public life since the 5th century BC and has set the stage for pioneer women in the West to combat the perception of females as inferior beings and to struggle to enter higher education and public life and, eventually, gain voting rights. This socio-political framework helps us explore the gender ideologies that have impacted women’s life since antiquity, the changes in the perception of women in the course of history, the origin and development of ideas about women’s body and mind, as well as the role of race in regard to these issues. Understanding the gamut of theories and attitudes toward women, we can develop a better grasp of what women want today, where they are headed, what obstacles are still standing in their way and how they can overcome them to achieve their goals.  
Prerequisite(s) with concurrency: UH 200 (concurrent enrollment allowed)  
Humanities, University Honors  

UH245 The Hero’s Journey  
**UH**  
Hours 3  
The heart of this course will be the study of the archetype of the hero’s quest in the mythology and literature of adventure. We will study and discuss theories and practices of Adventure from a variety of disciplinary perspectives (literature, film, sociology, history, psychology, philosophy). We will read classic adventure novels such as J.R.R. Tolkien’s The Hobbit, as well as stories that challenge the very idea of ‘adventure’, such as Samuel Beckett’s “The Expelled.” Through a transdisciplinary lens, we will analyze representations of identity, belief, and class in these novels, supplementing our readings with contemporary films like Wes Anderson’s Moonrise Kingdom and Werner Herzog’s Grizzly Man.  
Prerequisite(s) with concurrency: UH 200 (Concurrent Enrollment allowed)  
University Honors
UH246 Recreating Africa: Diasporic Imaginings of Race and Space

Hours 3

What does it mean to be African? Black? Are the terms bound by racial, ethnic, or spatial limitations? Who possesses the rights of access to the cultural products and expressions unique to the continent and her descendants? In this course, students will explore how the concept of Africa, as both home and identity, is recreated and imagined through a variety of disciplines and sources (history, sociology, religion, art, media studies, anthropology, psychology, linguistics). During lectures and weekly discussions, and through words, pictures, sounds, and live performance, we'll examine objects and stories that collectively make up contemporary expressions of global Africanity. Students will explore questions of home, identity, Afropolitanism, continuity, appropriation, authenticity, historical memory, and creolization using examples from academic scholars, literary figures, and popular culture. Looking and listening closely, students will observe the wide range of African cultural practices present within literature, film, music, artwork, communication styles, dress, and beauty standards to develop a critical understanding of not only how these practices continue to unfold on the African continent, but how they are also transformed by and endure throughout its many diasporas.

Prerequisite(s) with concurrency: UH 200 (concurrent enrollment allowed)

University Honors

UH250 A Republic If You Can Keep It

Hours 3

Divisiveness, alienation and polarization grip our country and our condition does not appear to be improving. There are many who believe that our form of self-governance is at risk from a variety of forces and factors. After the constitutional convention of 1787, Benjamin Franklin was asked what form of government had been established. His response was "A Republic If You Can Keep It" and his response is both the title and focus of this course.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors

UH251 The Legislative Process

Hours 3

This course asks "What" the normal legislative process was and is currently; "How" societal changes will affect current and future law making; and "Why" did we get into this condition? We will take into consideration public demands, business interests, racial equality, and the working-class poor as influences on law making. The class will discuss immigration, abortion, taxes, health care, and other "Hot Button" issues faced by our elected officials. Changing technology in business and buying habits of the public are some of the factors affecting the law-making process. The class will discuss and discover the "what, how, and why" of the political polarization and the extreme divisiveness of social and business issues.

Prerequisite(s) with concurrency: UH 200 (concurrent enrollment allowed)

University Honors

UH252 The Changing Electorate

Hours 3

Gain practical insights into the election process. Hear from state and local election officials, candidates, and campaign managers. Learn about candidate decision-making, influences on elections, political parties, and the effect of money on elections. The class will meet and interview state and local leaders of political parties, governments, industries, and those who conduct elections. Each student will interview elected officials in their home state.

Prerequisite(s) with concurrency: UH 200 (concurrent enrollment allowed)

University Honors

UH260 Build Your Position! – Ethical Case Studies Made Practical

Hours 3

This course is about empowering students to develop an opinion about highly controversial topics in current public discussion. The participants will be encouraged to find and create building blocks based on conceptions of philosophical and theological ethics. In addition to introductory lectures, book discussions, films, and other media, role playing and mock debates will be used as tools to help sharpen argumentation. Possible topics include: "Blue or Red: Why and What Kind of Democracy Do You Want?", "Labor Unions: Engines or Brakes to Societal Progress?", "Immigration: Opportunity or Threat?", "Abortion: Murder or Human Right?", and "Confederate Flag: Heritage or Hate?".

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors

UH261 Issues & Trends in Healthcare

Hours 3

The course is designed to enhance the learning and understanding of healthcare and its impact on our changing world. The course serves as an introduction to health care, in which trends and issues will be identified and discussed. In addition, technology in health care delivery, applications, decision-making, planning, and research will also be addressed. The course focuses on understanding the role of the health care professional in health care education, practice, and research. The course also explores health care from the perspective of the health care consumer.

Prerequisite(s) with concurrency: UH 200 (Concurrent enrollment allowed)

University Honors
UH270 Engage Tuscaloosa

Hours 1

This is a service learning field experience course conducted by the Honors College Engage Tuscaloosa office. The service learning experience is a learning vehicle for the Honors students to be exposed to and learn about educational issues within multiple segments of our surrounding communities. UA students will work with pupils in local elementary, middle or high schools for 8-12 hours during the semester in a variety of educational settings and subject areas. Honors students will receive training during class time on the specific work to be done in the service learning experience, on how to work with school-aged children and how to be an effective mentor.

Prerequisite(s) with concurrency: UH 205 (concurrent enrollment allowed)

University Honors

UH280 Mosaic Advanced: An Experimental Multimedia Project

Hours 3

Class is for those students who have completed UH 180, and who return to take positions of leadership, sometimes as editors, working with groups of new students in that class to assist with writing, photography, graphic design, online and website work and social media. Students will be expected to develop original stories or projects that are more sophisticated and complex than their UH 180 work. Students will work with the aid of student editors and UA staff/faculty advisers.

Prerequisite(s): UH 180

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors

UH281 Writers and Revolutions

Hours 3

How do writers, and journalists-as-writers, see revolutions (some well known, some not so much) and what role do they play in them? We examine writers (some well known, some not so much), their lives, their texts their words, rhetoric and arguments, address their effects on revolutionary and/or cultural change, and we set these writers and their works within their broader economic, social, cultural, and political contexts. Are they archivists or activists? Do they help trigger and/or sustain revolutions, or help us understand them, or both? And what have they left us to help us understand modern political and cultural pressures that hint at radicalism or revolution?.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

Humanities, University Honors

UH282 Imagining Revolution

Hours 3

This course surveys various examples of the revolutionary and radical imagination. Instead of comparing different historical revolutions, this course will be exploring the different ways that people have imagined, in a revolutionary sense, alternative worlds. What does restless discontent with what-is look like in literature and art? In philosophy? In politics? In religion? In race and gender? By tracing the contours of such thoughts, we can begin, first, to see the power of critique and ask ourselves questions such as: Critique what? Critique why? Critique how? And secondly, we can begin to see the power of the speculative imagination and its role in creating a more desirable, and just, world.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

Humanities, University Honors

UH283 Difference and Dissent

Hours 3

In this course, we will explore, debate, and analyze a range of cultural controversies that made headlines during the 19th, 20th, and 21st centuries. The course is organized thematically, while we will focus on a specific theme for each unit, discussion and analysis will afford opportunities for cross-thematic examination, as well as exploration of other related cultural issues.

Prerequisite(s) with concurrency: UH 200 (Concurrent enrollment allowed)

University Honors

UH295 The Theory and Practice of Mentoring

Hours 2

Students will explore scholarship about peer mentoring in the college setting, developing an understanding of the practice of mentoring and the purpose of their role as mentors within the Honors College. The course will provide the theoretical framework for the interrogation and implementation of mentoring and expose students to the various mentoring options in the Honors College. Students will also develop the skills necessary for facilitating group discussion.

Prerequisite(s) with concurrency: UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors
UH310 College in Media & Popular Culture

Hours 3

This course examines representations of colleges and universities in media and popular culture. Using various forms of media including films, TV shows, novels, news outlets, trade publications, plays, podcasts, Ted Talks, music, etc., we will examine topics including students, Greek life, athletics, faculty members, graduate school, and more to understand discourse regarding higher education in the United States from various disciplinary perspectives. The course considers the possibility that, beyond entertainment value, representations of college convey a perceived reality of what student and faculty life looks like as well as the status of higher education in the United States. We will question those portrayals and discuss how they inform and/or miseducate various populations by comparing them with the everyday realities of students, faculty, and institutions in order for you to become a more critical consumer of the media and public messages you consume.

Prerequisite(s): UH 200

University Honors

UH311 Stanley Kubrick and Human Nature

Hours 3

Stanley Kubrick said in an interview for Full Metal Jacket that "truth is too multifaceted to be contained in a five line summary", but here’s to trying. Stanley Kubrick, director of such notable films as 2001: A Space Odyssey, The Shining, and the aforementioned Full Metal Jacket, among others, was an inveterate reader who practically could not make a film until he was an expert on the subjects he was dealing with. As such, this course will take a similarly broad approach, drawing on theoretical works from philosophy, psychology, social criticism and others, to help us study the one true subject Kubrick was eternally a student of--human nature. Is there such a thing, and what features define it? Like Danny Torrance in The Shining, we’ll draw on knowledge from the past, present and, though we can’t “shine”, from potential futures, to work our way through the labyrinthian mystery that is the human race.

Prerequisite(s): UH 200

University Honors

UH312 Fear and the American Consciousness

Hours 3

This course seeks to answer two questions: “What do Americans fear, and what can we learn about American culture after studying that fear?” Americans have always, and perhaps now more than ever, maintained deep fear. Fear of the unknown. Of science. Of technology. Of others. Of terrorism. Of gun violence. Of viruses. Of each other. Answering such questions demand a transdisciplinary approach to fear. Therefore, students will use trauma theory, psychology, science, race theory, historical analysis, philosophy, rhetoric studies, sociology, film criticism, and gender theory to analyze fear from a variety of disciplines. The class is organized around a series of texts that depict and address American fears since the Great Depression, and students will be asked to analyze and then debate the causes of such fears. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200

University Honors, Writing

UH323 Contemporary Book Arts

Hours 3

This hands-on course provides an introduction to the concepts, aesthetics, and techniques of contemporary book arts. The class will explore fundamental elements of bookbinding and unique artistic book structures, and students will create work that has a narrative for the viewer. Students will discover a variety of contemporary artist book structures, develop basic hand skills, and consider how content and book structure work together in artists’ books. Assignments will be given to further students’ understanding of the book and its potential for artistic expression.

Prerequisite(s): UH 200

University Honors

UH329 Honors Special Topics

Hours 1-6

Special Topics.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 or IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors
UH340 Origins of Western Thought: The Judeo-Christian Tradition
UH, W

Hours 3

This course focuses on the history, literature, iconography, and sacred practices of the Judeo-Christian tradition. Texts under study may vary at instructor’s discretion, but will generally include readings from the Hebrew and Christian scriptures, Augustine’s Confessions, Dante’s Commedia, Chaucer’s Canterbury Tales, and Milton’s Paradise Lost. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH341 Origins of Western Thought—Modern Thought
UH, W

Hours 3

This course focuses on developments in Western thinking from the Renaissance to the present day. Authors to be studied will invariably change at the instructor’s discretion, but students should expect to read and become familiar with the works of Shakespeare, Descartes, Pascal, Swift, Hume, Austen, Darwin, Freud, and Woolf. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH342 Shakespearean History
UH, W

Hours 3

This course examines the philosophy of history in seven plays by Shakespeare and numerous theoretical and critical readings, which may include Herodotus, Plato, Holinshed, Hume, and Hegel. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH344 Myth and Reality in Espionage
UH

Hours 3

The seminar will follow the general themes of myth vs. reality in the world of espionage. Students shall focus on spy novels, possibly including the works of Rudyard Kipling, Somerset Maugham, Alan Furst, Graham Greene and John le Carre to develop the spy storyteller’s craft. The texts students shall read will grapple with the moral questions raised in espionage—the manipulation of other human beings, its justification for protecting the national interests of one’s country, the long-term corrosive effects of deceit and clandestinity on the soul of the spymaster, the role of the spy bureaucracy, and the attraction of the game of espionage for its own sake. The works of fiction will be contrasted with the true lives of master spies, possibly including Oleg Penkovsky and Ryszard Kulinski, as well as double agents—possibly including Dusko Popov, Kim Philby, Aldrich Ames, Robert Hanssen, and Jim Nicholson, posing the question whether the myth of espionage is stranger than the real thing.

Prerequisite(s): UH 200

University Honors

UH345 Difficult Women
UH

Hours 3

In this course, we will explore feminine archetypes and female stereotypes through texts from a variety of disciplines and sources, including psychology, mythology, philosophy, history, literature, art, anthropology, religion, folklore, fairy tales, film, television, and popular culture. The course covers an array of material, ranging from images of prehistoric artifacts to novels and plays to modern films to Marilyn Monroe, Madonna, and Lady Gaga.

Prerequisite(s): UH 200

University Honors

UH346 Existentialism, Race, and Gender
UH, W

Hours 3

In this course, we will survey not only some of the canonical authors of existential philosophy (e.g., Kierkegaard, Nietzsche, Sartre), but more importantly, read them in relation to other authors that are not traditionally included, yet who struggle with the problems of existence and, in turn, provide wonderfully rich insights into the human condition. By breaking the boundaries of race and gender, as they are traditionally drawn by existential philosophy, and by including writers such as Ralph Ellison, Frantz Fanon, and Toni Morrison, a richer conversation on the nature of the human condition, as well as the possibilities for “being”, will be presented. The course’s primary objective is to read existential philosophy across race and gender. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing
UH347 Political Theories of Love  
**UH, W**

Hours 3

What is a political theory of love? What does a politics of love look like? What is it a love of? Country? Justice? Fellow citizens? Should the concept of love serve as a starting point for thinking politically? Or should it, above all other things, be avoided as a starting point for thinking politically? These are just some of the questions that the tradition of political theory, stretching back to Plato's Republic, has sought to answer in many different ways. In this course, we will explore such questions and some of the ways that they have been approached by various writers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH348 Green Political Thought  
**UH, W**

Hours 3

In this course, we will explore the intersections between political theory and environmentalism. When these two fields are brought together, there are interesting questions to be asked about humanity's historically sovereign relation to, and role in, nature: What is the nature of freedom amidst so many environmental crises? How do we alter our value systems to better reflect environmentally sustainable behaviors? Do we pursue revolution or reform? In this course, we will survey the spectrum of Green political theories, including eco-liberalism, eco-socialism, eco-anarchism, eco-feminism, eco-terrorism, etc., and explore the myriad ways people have rethought our present and future politics in relation to our environments. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH349 The Neighbor  
**UH, W**

Hours 3

“Love your neighbor as yourself.” Why? Do they deserve it? And who is my neighbor? When Christ was asked, “Who is my neighbor?” a line of questioning was begun that has since populated the writings of authors such as Augustine, Friedrich Nietzsche, Soren Kierkegaard, Fyodor Dostoevsky, and Sigmund Freud to contemporary thinkers such as Cornel West and Slavoj Zizek. It is an ethic that has been both celebrated and critiqued. In either form, we will see that the category of “the neighbor” provides a productive starting point to begin thinking politically, economically, psychologically, and theologically. In this class, we will examine classic texts that engage the concept of love of the neighbor in order to trace its historical development as a social and political concept. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH351 Radical Stitches: Forming Identity through the Creation of Texts  
**UH, W**

Hours 3

This course will focus on women's texts and explore how women form notions of identity and community through the production of various texts, including quilts, gardens, cookbooks, and diaries. We will question the gendering of particular crafts and how this affects our cultural knowledge and reading of these texts. Major projects for this course will include a biographical/historical sketch, an oral history project, and a final written project. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing
UH352 Southern Women Writers  
**UH, W**

Hours 3

In this course, we will examine the texts and traditions of women writers from the American South. Through close reading and writing, we will analyze the use of autobiography in these texts, exploring how writing as a southerner and as a woman shapes one’s work and achievement. We will read works by some of the most distinguished writers of the last two centuries—including Zora Neale Hurston, Eudora Welty, Alice Walker, and Ellen Douglas, as well as lesser known writers. As we read and write, we will also discuss our own experiences of the South, its people, and its narratives and how we choose to interact with them. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BU1 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

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UH353 American Dream(s): Exploring Narratives of American Life  
**UH, W**

Hours 3

This course will explore the literary and historical development of American Dream(s) through narratives in American Literature. We will engage with narratives throughout American history focusing on the narrative's power to define and develop social norms but also enact social change. We will develop a vocabulary for discussing the relationships between narratives and social change and analyze written and oral narratives and the cultural and historical contexts that surround them. We will concentrate specifically on narratives of marginalized people in American Literature. We will examine how narratives are used to create connections, educate, inform, and inspire readers/listeners/viewers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BU1 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

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UH354 Modern Africa  
**UH**

Hours 3

This course surveys the deep historicity, the cultural diversity, and the political-economic complexity of contemporary African societies from the early post-independence period to the present day. We examine the Atlantic slave trade, colonialism and African nationalism as foregrounded historical events that have shaped modern Africa while also insightfully examining them from Africana perspectives and standpoints. The range of themes considered within the course include: the status of African development and democracy in a global era, modern innovation in Africa and its effect on African societies, western constructions of Africanness, the role of gender in the experiences of ordinary men and women; the nature of authority in indigenous polities; the ongoing effects of the European scramble for Africa and African responses; contemporary cultural expressions; and the economic, social, and political realities and challenges of modern global Africa.

Prerequisite(s): UH 200

University Honors

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UH355 Afro-Asian Studies  
**UH**

Hours 3

Paul Gilroy’s The Black Atlantic: Modernity and Double Consciousness (1995) explores the global Black experience and Black identity formations through a transatlantic frame. Gilroy’s thesis argues that contemporary black identity constructions are a result of ongoing processes of travel and exchange between Africa, Europe, and the ‘New World’ during earlier periods of capital accumulation (transatlantic slavery and colonialism). This course disrupts Gilroy’s thesis, repositioning the focus, temporally and spatially, eastward. Students will examine often underexplored relations and routes of passage and exchange between the African continent and the peoples of Japan, China, India, the Pacific Islands, the Middle East, among other nations. The course may alternately consider any of the following propositions: (a) historical and contemporary Africa-Asia (Africa-China) relations, (b) the reasons for dispersal and processes of creating new Afro-Asian identity formations, or (c) issues of cultural continuity, nostalgia, solidarities, and belonging between Africana and Asian communities.

Prerequisite(s): UH 200

University Honors

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UH360 Heroes of Faith and Justice in the 20th Century  
**UH**

Hours 3

This course introduces three distinguished symbolic figures for the commitment to faith, peace, and justice: Gandhi, Bonhoeffer, and Martin Luther King, Jr. Building on the studies on life, achievements, and doctrines of the three selected historical persons, we will look at contemporary conflicts and reflect about what we may be able to take away from the historical conflicts for their solutions.

Prerequisite(s): UH 200 OR BU1 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors
UH361 One Nation Under God

Hours 3

How did the United States, founded as colonies with profoundly religious aspirations, come to be the first modern state whose commitment to the separation of church and state was reflected in its constitution? From the election of 1800, when Federalist clergymen considered Deist Thomas Jefferson unfit to lead a "Christian nation," to today, when religion again plays an unmistakable role in political identity, it has been a crucial and constant element in American politics. This seminar is meant to reconstruct the complicated connections of religion and politics in American history in order to enable the participants to develop a well reflected and solid position in this embattled field.

Prerequisite(s): UH 200 OR BU 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors

UH362 A Divided America

Hours 3

The class will focus on issues that divide us where we live, work, study, worship, and vote. These issues arise due to the demographics of age, sex, nationality, and race. We will seek to identify the history of the divisive issues as they arise from ethical, economic, social, geographic, and moral conditions. Students will research each topic, analyze various "think tank" approaches to each issue, and interview persons involved in the divisive issues. This analysis will be reduced to a bullet point paper of the major issues. The class will identify and discuss through collaborative discussions the bullet point issues both nationally and in states. Students will face off in class discussions of transdisciplinary solutions to each divisive issue as they face their unrecognized biases that often dictate beliefs.

Prerequisite(s): UH 200

University Honors

UH363 Ethics, Lobbying, and Law

Hours 3

In both national and local governments, lobbying scandals make the news. Public corruption in national and state governments have caused public distrust in our democracy. Two impeached Presidents, a Vice President and two removed Speakers of the House of Representatives in Congress and convicted Congressmen were but a prelude for corruption and scandals in the states. Two Alabama Governors were convicted of corruption while the Speaker of the House was convicted from a 23-count indictment. South Carolina, Illinois, Texas, Louisiana and many other states have experienced similar misdeeds. Lobbyist have replaced the press as the 4th influence on politics, why? what do they all have in common?.

Prerequisite(s): UH 200

University Honors

UH360 Mosaic Leadership: An Experimental Multimedia Project

Hours 3

This course is a continuation of Mosaic class UH 280. Students return to take positions as highest level of leadership (e.g. Editor-in-Chief, Executive Editor, Managing Editor). Students will make editorial and management decisions (e.g. theme of Mosaic work for the semester, subjects to address, deadlines, assignments, choice of editors, editing decisions, what to run and what not to run, editing instructions, Style, work priorities, work loads, publications times and dates, and approve content, designs and layouts. Students will work with the aid of student editors and UA staff/faculty advisers.

Prerequisite(s): UH 280

University Honors

UH370 Engage Tuscaloosa

Hours 1

This is a service learning field experience course conducted by the Honors College Engage Tuscaloosa office and is a follow up to the UH 270 field experience for students who are interested in a more in-depth experience. This service learning opportunity is meant to enhance the prior learning experience of the Honors students by challenging them to look deeply at not only educational issues, but social issues within multiple segments of our surrounding communities and state. UA students will continue to work with pupils in local elementary, middle or high schools for 10-12 hours during the semester in a variety of educational settings and subject areas. Honors students will receive additional training during class time on the specific work to be done in the service learning experience, on how to work with school-aged children and how to be an effective mentor.

Prerequisite(s): UH 270

University Honors

UH380 Gossip and Rumor: Featuring Social Change and Social Media

Hours 3

We are saturated in gossip and rumor, essential, powerful and subversive forms of human communication, yet we commonly overlook, dismiss or trivialize their role in our society. This class examines their history, morality, psychology, vital agency in social change, commercialization and ethics, the mass media’s amplification of them and their role in our closest circles, workplaces and organizations. We also look to their future given the immense impact of social media on interpersonal communication. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BU 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing
UH382 Thomas Paine and Revolutionary Writing

*UH, W*

Hours 3

English radical Thomas Paine (1737-1809), writer and thinker but more writer than thinker, is author of the most influential and distinctly "American" revolutionary ideals and roadmaps, best selling author of the 18th century, a significant factor in both the American and French Revolutions and pioneer of modern democracy. We look at his life, character, times, influences, ideas, works and legacy and we compare him to other revolutionary writers. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): UH 200 OR BUI 102 OR GBA 271 OR GBA 272 OR IDMD 102 OR RRS 201 OR (UFE 201 AND UFE 202)

University Honors, Writing

UH383 Bohemianism

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Hours 3

In this course we will explore what has come to be known as "Bohemianism" as a lifestyle and a state of mind via theoretical and imaginative texts and films. Also, we will study the artistic and cultural movements and phenomena that both inspired and were inspired by these texts. We will begin with the origins of the term “bohemia” and examine how and why it came to be associated with artists, writers, and musicians. In addition, we will consider the relationship between “bohemia” and mainstream culture, to include the actual “mainstreaming” of bohemia (oxymoronic, no?), or what I like to call “fauxhemia.”.

Prerequisite(s): UH 200

University Honors

UH395 HYO Mentors for Second-Semester Freshmen

*UH*

Hours 1

Honors Year One Mentors for UH 110 will serve as discussion leaders and peer mentors for first-year students in the Honors College have completed at least one semester on campus. Mentors will assist these freshman students in continuing to develop an a sense of belonging and purpose in the Honors College, the university, and the greater community. During preparation classes, mentors will develop leadership, teamwork, and inclusivity skills, discuss mentoring and their role in the HYO program, and analyze the developmental stages for students in their first-year of study. During small group discussions, mentors will put to practice this work and help first year students practice the key concepts of engaged scholarship, including critical and creative thinking, ethical and empathetic dialogue, and collaborative and inclusive leadership.

Prerequisite(s): UH 200

University Honors

UH396 Honors Action Mentors

*UH*

Hours 1

In this six day, field experience course, students will serve as peer mentors for the Honors Action Program. They will help immerse freshmen students in the foundations of the Honors College and community engagement. Peer mentors will take part in service learning project creation and planning before the week-long program in coordination HYO faculty and staff and Honors Action Student Leadership Team. The week of the program, peer mentors will implement these projects with the freshmen, attend the lectures, and serve as small group discussion leaders. All mentors are expected to have read the Common Book before the program week.

Prerequisite(s) with concurrency: UH 200

University Honors

UH400 Honors Independent Study

*UH*

Hours 1-6

Students work on an independent project with a faculty supervisor.

Prerequisite(s): Completion of a minimum of 3 hours of UH subject labeled coursework at the 100, 200 or 300 level

University Honors

UH401 Senior Capstone: Signature Work

*UH*

Hours 3

In "Signature Work," students will integrate and apply the whole of their Honors learning experience to complex problems and projects that are important to the student and important to society. Students will also participate in a research and methods seminar in which Honors faculty offer support to student projects and in which students have the opportunity to discuss work-in-progress with their peers.

Prerequisite(s): UH200; plus 3 more hours of UH200 or UH300 level coursework

University Honors
Course Inventory

UH405 Leadership Experience

*UH*

Hours 1-6

Leadership Experience integrates diverse practical experiences with leadership concepts so that students can serve as informed, proactive leaders in various Honors College initiatives. The course utilizes a combination of small group discussions on leadership theory with opportunities for Honors College students to demonstrate their personal leadership styles.

Prerequisite(s): Completion of a minimum of 2 hours of UH subject labeled coursework at the 100, 200 or 300 level

University Honors

UH425 Graduate School Preparation

*UH*

Hours 4

This course is designed to provide a capstone to the Honors College curriculum specifically through preparing students for graduate school in the liberal arts fields, rather than professional school. Students will be exposed to important concepts associated with graduate school preparation and provided opportunities to cultivate their own professional development and discipline knowledge. Further, students will be expected to develop professional relationships with faculty members within their field and to construct a graduate research agenda. Prerequisite of at least 3 credits of UH 100-300 level hours required.

Prerequisite(s): Minimum 3 credits in UH 100, UH 200 or UH 300 level courses.

Prerequisite(s) with concurrency: No

University Honors

UH498 Honors Thesis Research

*UH*

Hours 1-3

Research on a topic chosen by the student in consultation with a qualified faculty supervisor pertaining to an honors thesis. A proposal outlining the thesis project must be approved prior to registration.

Prerequisite(s): Completion of a minimum of 3 hours of UH subject labeled coursework at the 100, 200 or 300 level

University Honors

UH499 Honors Thesis

*UH*

Hours 3

Research on a topic chosen by the student in consultation with a qualified faculty supervisor culminating in an honors thesis. A proposal outlining the thesis project must be approved prior to registration.

Prerequisite(s): Completion of a minimum of 3 hours of UH subject labeled coursework at the 100, 200 or 300 level

University Honors

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 300

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

ATR312 Interdisciplinary Healthcare Teams in Sports Medicine

Hours 2

The focus of the course is to learn about the role of various healthcare professionals within the Sports Medicine team and how to interact as a healthcare team to improve patient care.

Prerequisite(s): ATR 272 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

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): 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

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

ATR405 Psychological Aspects of Injury
Hours 3
This course allows students to explore, develop and refine their personal values and ethical foundations as they relate to the psychosocial aspects of healthcare and professional practice. Special emphasis is placed on the psychology of injury and catastrophe, recognition of psychological conditions, counseling and intervention strategies, and the utilization of mental imagery and other psychological skills. Exploration of professionalism, leadership, communication, diversity, inter-relationships between patients, families and the medical community, stress management, burnout, and ethical questions associated with injury, sport and general healthcare also are discussed.
Prerequisite(s): ATR 300

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

ATR415 Scientific Reading and Writing in Athletic Healthcare
W
Hours 3
The acquisition and application of advanced literature search and scientific literature interpretation skills. The refinement of scientific writing skills as they relate to the development and completion of a scientific proposal paper.
Prerequisite(s): ATR 257, ATR 258, ATR 272, ATR 305 or KIN 365, ATR 405, EN 101, EN 102, HHE 378

Writing
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 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 454 and ATR 455
ATR432 Physiological Basis and Conditioning Methods for Performance
Hours 3
This course is designed to present up-to-date information regarding the human physiological response to exercise, as well as the applied aspects of strength and conditioning and the scientific principles that guide this practice. Students will gain knowledge in how to perform pre-exercise assessments, develop appropriate exercise training programs based on these assessments, as well as lead and demonstrate safe and effective methods of exercise by the application of the primary theories and principles of exercise science. This course will also introduce methods of patient assessment and reducing the risk of injury. A combination of lecture and practical class sessions will be used.
Prerequisite(s): ATR 300, BSC 215, and BSC 216

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 357 and ATR 358 and ATR 360 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and KIN 365 and KIN 492 and PH 101
Prerequisite(s) with concurrency: PH 101 and ATR 458

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 KIN 365 and PH 101
Prerequisite(s) with concurrency: ATR 430 and ATR 440

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 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 320
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 430, 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

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.
ATR552 Seminar in Athl. Training
Hours 3
A review of historical developments in the field of athletic training with emphasis on current challenges in the profession.

ATR554 Advanced Clin Eval Diag
Hours 3
Advanced clinical evaluation and diagnosis of structural and functional soft tissue and skeletal injuries through the acquisition, application and integration of clinical skills. Focus on consideration of the entire kinetic chain in the examination and diagnostic process.

ATR555 Pharmacology in Athl. Trng
Hours 3
The study of pharmacologic agents used in the management of acute and chronic illnesses and their response to and impact on physical activity. Discussion of acute and chronic illnesses.

ATR556 Manual Therapy
Hours 3
Advanced evaluation of the structure and function of soft tissues and articulations. Focus on the acquisition and application of clinical skills in manual therapy with emphasis on the integration of manual therapy into the overall treatment plan.
Prerequisite(s): ATR 554 or HAT 554

ATR557 EBP Ther Modalities
Hours 3
A review of current theories, methods and techniques in the application of therapeutic modalities and a critical review of the evidence in support of these clinical practices.

Hours 3
The acquisition and application of advanced literature search and scientific literature interpretation skills. The refinement of scientific writing skills as they relate to the development and completion of a literature review paper.

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.

CSM104 Introduction to Personal Finance
Hours 3
This introduction to personal finance is ideal for freshmen and sophomores who are building financial capability. Personal budgeting and money management strategies, the responsible use of credit, automobile and home decisions faced by emerging adults, saving for near and distant goals, and fundamentals of investing are covered. Discussions incorporate current and historical social, economic, and political developments that influence today's consumers.

CSM116 Quantitative Methods of Finance
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

CSM201 Indv 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.

CSM205 Honors Intro to Personal Financial Planning
UH
Hours 3
This course covers the same material as CSM 204 but in a depth appropriate for honors students. Foundational financial planning concepts are addressed within the context of the family life course and the consumer decision-making framework. Topics include financial goal setting, budgeting, risk management, savings, and investments. Financial planning and financial counseling careers are also introduced.

University Honors

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 or CSM 205
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.

CSM333 Financial Capability
Hours 3
This community-based learning course will prepare students to solve the financial and economic challenges of vulnerable households. Students will be equipped with skills related to managing cash flow, credit and debt, savings, and insurance. This course prepares students for careers in a variety of fields, including financial services, community organizations, public policy, and social work.

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 or CSM 205)

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): EC 110 or EC 112 with C- or higher
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.
Prerequisite(s): EC 110 or EC 112, and CSM 303 with a C- or higher

CSM404 Personal Investment Plan & Mgt
Hours 3
Concepts and techniques related to family financial investments.
Prerequisite(s): CSM 201, (CSM 204 or CSM 205), and (EC 110 or EC 112) with C- or higher

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.
Prerequisite(s): EC 110 or EC 112 with C- or higher

CSM409 NY Wall Street Stdy Tour
Hours 3
Provides an overview of the American financial system with emphasis on financial service providers, products and markets. Includes a 6-day tour of New York’s financial district, presentations by financial professionals, team activities, assignments and stock market analysis.

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 or CSM 205

CSM414 Personal Investment Planning & Management II
Hours 3
This course builds on Personal Investment Planning and Management I with a focus on the valuation of investments and the management of investment portfolios. Financial securities analyzed include equities, derivatives, fixed income, and alternative investments.
Prerequisite(s): CSM 404 or permission of instructor

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 or CSM 205

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
Hours 3
Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CS 102 or CSM 101
Computer Science

CSM443 Consumer Cybersecurity
Hours 3
This course considers cybersecurity as it relates to consumers and families. Cybersecurity permeates the lives of consumers, affecting personal information, online presence and purchasing behaviors. This course focuses on consumer-side security course topics by discussing the evolution of information security into cybersecurity, cybersecurity theory, and the relationship of cybersecurity to people, society, and organizations. Students exit this course with the knowledge to effectively implement and manage the major components of personal cybersecurity.
Prerequisite(s): CSM 101 or CS 102

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.

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-mediated 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

CSM454 Personal Income Tax Mgt Plannng
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 or CSM 205

CSM455 Research Methods and Analysis
Hours 3
Introductory research methods emphasizing non-experimental research designs. Examples and exercises are drawn from real-world research applications that inform consumer behavior and policy. Topics include: research design, measurement, sampling, data management, descriptive statistics, data visualization, and statistical inference.
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. Computing proficiency is required for a passing grade in this course.
Prerequisite(s): CSM 204 or CSM 205 or RHM 474 or AC 210 or AC 211

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 or CSM 205) 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.

CSM473 Innovation and Creativity in HES 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.

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.

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 or CSM 205

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.

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 or CSM 205

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 Consumer 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.

CSM509 NY Wall Street Stdy Tour
Hours 3
Provides an overview of the American financial system with emphasis on financial service providers, products and markets. Includes a 6-day tour of New York's financial district, presentations by financial professionals, team activities, assignments and stock market analysis.

CSM510 Pers Retire Plan Empl Benefits
Hours 3
Fundamentals of personal retirement planning and the selection of employee benefits.
Prerequisite(s): CSM 204 or CSM 205

CSM511 Building Employee Engagement
Hours 3
This course provides a comprehensive overview of the theory and methods necessary for promoting employee engagement. The role of employee engagement in improving service, product quality, and consumer satisfaction are explored. Methods used to promote a culture of quality and customer care through continuous improvement methods, Six Sigma implementation, and socio-technical systems redesign are addressed.

CSM512 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.

CSM514 Personal Investment Planning & Management II
Hours 3
This course builds on Personal Investment Planning and Management I with a focus on the valuation of investments and the management of investment portfolios. Financial securities analyzed include equities, derivatives, fixed income, and alternative investments.
Prerequisite(s): CSM 504 or permission of instructor

CSM515 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.

CSM517 Financial Planning Foundations
Hours 1
Foundational financial planning principles and practice for graduate students without exposure to financial planning as an undergraduate student. Topics include time value of money, financial goal setting, budgeting, risk management, savings, and investments.
CSM518 Statistics Foundations for Consumer Sciences  
Hours 1  
Foundational statistics for consumer sciences graduate students. Topics include descriptive measures, statistical testing and inference, confidence intervals, bivariate correlation, and regression analysis. Examples and exercises emphasize real-world applications.

CSM519 Consumer Economics Foundations  
Hours 1  
Foundational consumer economics principles for graduate students without exposure to elementary microeconomics as an undergraduate student. Topics include consumer and producer behavior, market structures, equilibrium, elasticity, efficiency/welfare, externalities, and public goods.

CSM520 Personal Estate Planning  
Hours 3  
Techniques of personal estate planning within the family life cycle.  
Prerequisite(s): CSM 204 or CSM 205

CSM524 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.

CSM525 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.

CSM527 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.

CSM528 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.

CSM530 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.

CSM535 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.

CSM537 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 or CSM 205  

CSM555 Research Methods and Analysis  
Hours 3  
Introductory research methods emphasizing non-experimental research designs. Examples and exercises are drawn from real-world research applications that inform consumer behavior and policy. Topics include: research design, measurement, sampling, data management, descriptive statistics, data visualization, and statistical inference.  

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 CSM 205 or RHM 474 or AC 210 or AC 211  

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  
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, the digital workplace, and in today's global economy. 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 issues 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 possible submission to a referred journal or presentation at a professional conference or online module.

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

CSM584 Portfolio  
Hours 3
A culminating experience for Consumer Sciences students designed to increase knowledge of current and emerging issues in the field. With the instructor, students identify specific learning goals and provide evidence of achievement relative to these jointly-established criteria.
Prerequisite(s): Consumer Sciences graduate student and permission of instructor.

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

This independent research course partially fulfills required master’s-level research thesis hours toward the master’s degree in Consumer Sciences. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

**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.

**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.

**CTD141 Intro to Apparel Design**
Hours 3

An introduction to the business of fashion with focus on the apparel designer's role. Open to students in the Apparel Design concentration only.

**CTD205 Surface Design Studio Seminar**
Hours 3

Provides understanding of textile surface design through studio work. A series of selected techniques are demonstrated with hands on exercises.

Prerequisite(s): CTD 261 CTD 221

**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.

**CTD225 Residnt Des/Graphic Comm**
Hours 3

Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of scheduling, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.

Prerequisite(s): CTD 121, CTD 225 with a C- or higher

**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 with a minimum grade of C-

**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 with a minimum grade of C-

**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

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

Computer Science

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

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 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): C- or higher in 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): C- or higher in 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): CTD 226

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) with concurrency: Concurrent enrollment with CTD 225

CTD340 Portfolio Development

Hours 3

Dedicated to the study and completion of a student portfolio.

Prerequisite(s): CTD 226
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 4
Principles and procedures governing the development and use of basic working (Block/Sloper) patterns. Use of manual flat pattern methods to develop patterns. Emphasis on the design process culminating in the designing of original apparel by the flat pattern method.
Prerequisite(s): CTD 102 and CTD 141 and CTD 241 and CTD 245 with a minimum grade of C-

CTD351 Apparel Des Thru Drpng
Hours 4
Techniques of creating a pattern or garment by draping on a dress form are applied in the execution of original design.
Prerequisite(s): CTD 350 with a minimum grade of C-

CTD353 Language of Design
W
Hours 3
Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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
Writing

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, and (AC 210 or AC 211) each with a minimum grade of C-
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 laboratories.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered in the spring semester.
Writing

CTD416 Hand Weaving
Hours 3
The study of original textile design by handloom weaving, including yarn selection, warp yarn preparation, dressing the loom, interpretation of weave drafts, loom-controlled and finger weaving techniques, and methods of finishing loom projects. Hand spinning and dyeing of wool yarns with natural dyes in an outdoor setting are also included. These hand-dyed yarns are used in a loomed project. For those interested drafting by computer software, working with "Weave It-Pro"- may be included.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Offered in the spring semester.
Prerequisite(s): CTD 425
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): C- or higher in 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): C- or higher in 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): 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 Inntat Trade
W
Hours 3
Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): EC 110 or EC 112 or EC 111 or EC 113; 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 4
This course emphasizes synthesis and application of design theories and the procedures and processes used in the apparel industry. Development of a portfolio of original design work is required. Two laboratories.
Prerequisite(s): CTD 350 and CTD 351 with a minimum grade of C-

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. 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 361
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

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 Textile 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.

CTD595 Ctd Research I
Hours 3
Discussions emphasizing contemporary issues, trends, relevant research, professional problems, and interests of students.

HD102 Honors Lifespan Human Development
SB, UH
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. Additional emphasis in the honors section is made to develop critical thinking and research skills as applied to the study of human development. This course counts toward the Social and Behavioral Sciences requirement of the UA Core.
Social and Behavioral Sciences, University Honors

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.

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 Early and Middle Childhood Development
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

HD215 Foundations of Early Childhood Education
Hours 3
Focuses on the theory, philosophy and goals of early childhood education. Topics include the role of the teacher and of the environment as they influence children’s learning and what it means to be an early childhood professional. This course provides students with an understanding of the appropriate practices to be used with young children, birth through age 5.
Prerequisite(s) with concurrency: HD 202 or HD 205
HD220 Research and Critical Thinking in Human Development and Family Studies
Hours 3
Introduction to the process of research in Human Development and Family Studies. Measurement, research design, and statistics with a heavy emphasis on critical thinking and drawing appropriate conclusions from research.

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 Curriculum Planning in ECE I
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 Curriculum Planning in ECE 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

HD326 Play in Child Development
Hours 3
The role and developmental value of play, including what can be learned from children's play, planning appropriate play-based activities, and play in special populations, with particular emphasis on play in children experiencing a healthcare event.
Prerequisite(s): HD 202 and HD 205

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

HD328 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.
Prerequisite(s): HD 210

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

HD400 ECE Internship Seminar
Hours 1
This course provides students a support mechanism to facilitate reflection and performance assessment through regularly scheduled seminars during teacher internship.
Prerequisite(s): Consent of instructor.
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): Six credit hours of HD 200-499

Writing

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. Restricted to HDFS students who have applied and formally been accepted to the concentration in Child Life.

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.

Prerequisite(s): HD 210

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.

Prerequisite(s): Six credit hours of HD 200-499
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 1-12  
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.

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.

HD512 Adult Development  
Hours 3  
Theories of and research on development throughout adulthood; young adulthood, middle years and aging are presented.

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.

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 Hospitalzd 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.
HD561 Theories Family Studies  
Hours 3  
Historical overview of and contemporary theoretical approaches for understanding family behavior. Theoretical perspectives (such as systems, exchange, developmental, behavioral, and symbolic interaction) are applied to family research and practice.

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  
This independent research course partially fulfills required research hours toward a Plan I master’s degree in HDFS. The course is conducted under the guidance of the thesis advisor. Material covered will be of an advanced nature aimed at providing master’s students with an understanding of the latest research and current developments within the field. Discussion and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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

HD642 Systemic Assessment and Diagnosis of Psychopathology in MFT  
Hours 3  
This course will include a systemic and culturally sensitive overview of the major mental health disorders and other conditions that may be the focus of mental health treatment. Psychopharmacology will be introduced with discussion of common psychotropic medications used to treat mental health disorders. While the focus of this course is on diagnosis and assessment, treatment issues will be briefly touched on in reference to the disorders discussed.

Prerequisite(s): HD 641

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.

HD650 Evidence-based Approaches to Treating Substance Use Disorders  
Hours 3  
Graduate seminar covering evidence-based approaches to treating substance use disorders.
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
This independent research course partially fulfills required doctoral-level research dissertation hours toward the doctoral degree. The course is conducted under the guidance of the dissertation advisor. 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 and advisor guidance will be directed towards readings of research articles and development of research methodology, with the aim of producing an original research contribution that represents a novel development in the field, or a novel perspective on a pre-existing topic in the field.

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.

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.

HES399 Prior Learning In Hes
Hours 1-30
Prior Learning in HES.
HES450 Volunteer & Civic Response

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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.

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HES490 Indiv Stdy Human Envir Science

Hours 1-6

Individual study in an area of human environmental studies.

HES509 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.

HES554 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

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

HES650 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.
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 Introduction to 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.

HHE375 Health Behavior Theory
Hours 3
The purpose of this course is to examine the determinants of health-related behavior and discuss how health education/promotion theories and models are used in research and practice.

Prerequisite(s) with concurrency: HHE 370

HHE378 Drugs, Society, and Human Behavior
W
Hours 3
The purpose of this course is to provide an introduction to topics associated with drug use, primarily from a public health perspective. The course will address the effects of drug use on society and the individual, and examine physiological, psychological, and sociological aspects of this public health problem. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HHE380 Public Health Systems and Policy
Hours 3
Local, state, and national public health policy and politics. Review and analysis of public and private health systems.

Prerequisite(s): HHE 273

HHE385 Introduction to Patient Education
Hours 3
This course serves as an introduction to theories that apply to the practice of patient education in a variety of health care settings. Additionally, the course provides an overview of the U.S. health care industry. Emphasis is on education for promotion of health and change of lifestyle.

Prerequisite(s): HHE 270
Prerequisite(s) with concurrency: HHE 375

HHE390 Wellness Assessment and Disease Management
Hours 3
Fundamental principles of wellness assessment and disease management plan development in the worksite. Includes practice of assessment skills and techniques.

Prerequisite(s): HHE 270

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.

Prerequisite(s): HHE 270

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.

Prerequisite(s): HHE 370

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 and HHE 375
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 and HHE 375

HHE470 Needs Assessment and Program Planning
Hours 3
This course examines the principles of conducting needs assessments and planning effective health promotion programs, including the implementation of sound prevention and health promotion strategies.
Prerequisite(s): HHE 370 and HHE 375

HHE475 Program Evaluation in Health Promotion
Hours 3
Designed to provide practical tools that can be used in real world settings, this course will examine methods to determine if and how a particular health-related program works. Emphasis will be placed on process and impact evaluation methods.
Prerequisite(s): HHE 370 and HHE 375

HHE480 Culminating Experience in Public Health
Hours 3
The purpose of this course is to provide students in the Public Health program with opportunities to apply public health and health education/promotion concepts presented during their undergraduate courses. This course includes observations, applications, and reflections of those concepts in professional practice.
Prerequisite(s): Advisor Permission Required

HHE485 Service Learning in Health Promotion
Hours 3
The purpose of this course is to give students the opportunity to provide small group health education in a local community setting based on a health need identified by community members. The didactic component of the course involves an introduction to service learning; an overview of health literacy and health education principles, theory, and strategies; and an in-depth review of the pathophysiology, prevention, and treatment of a particular disease or condition (e.g., Type 2 diabetes). The illness selected would be based on community input. This course will expose students to various genetic, behavioral, and social determinants of health. Approval of instructor required.

HHE488 Internship Community HIth
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.

HHE500 Rural Environ/Occupatnl 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.

HHE504 Health Counseling
Hours 3
Diagnoses of individual needs and study of typical counseling cases; includes counseling, theory, and process related to health promotion.

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 and HHE 520

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.

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 Public Health Practice
Hours 1-3
Supervised field experience in an external agency or organization (government, not-for-profit, for-profit) under the direction of a site supervisor and health science faculty member.
Prerequisite(s): HHE 512 and HHE 515 and HHE 521 and HHE 526 and HHE 586

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.

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.
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.

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.

NHM102 Honors Introduction to Human Nutrition
UH
Hours 3
Introduction to Human Nutrition, as an introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages. Additional emphasis in the honors section is made to develop critical thinking skills in the application of the principles of nutrition and its role in improving human health.

University Honors

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 healthcare 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 or NHM 102

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 or NHM 102 and CH 104 or CH 101 or CH 100.

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 or NHM 102
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 or NHM 102
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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): NHM 101 or NHM 102 and NHM 201.  
Prerequisite(s) with concurrency: NHM 295

**Writing**

NHM345 Nutrition Counseling  
Hours 3  
This course focuses on developing foundational skills in nutrition counseling and incorporation of the nutrition care process into nutrition counseling.  
Prerequisite(s): NHM 101 or NHM 102, NHM 201  
Prerequisite(s) with concurrency: NHM 363

NHM346 Nutrition Education: Theories and Practice  
Hours 3  
This course focuses on developing competency in learning-system design, with special emphasis on theory-based education models and teaching nutrition in a variety of settings.  
Prerequisite(s): NHM 101 or NHM 102, NHM 201, NHM 345

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 or NHM 102, 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 or NHM 102 and NHM 372  
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

NHM444 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 or NHM 102, NHM 253, NHM 340, NHM 365, NHM 395 or NHM 295, and CH 105

NHM446 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.

NHM445 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

NHM446 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.

NHM447 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.

NHM448 Practicum Nutrition Food Servi
Hours 1-5
Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM449 Directed Individual Study
Hours 1-6
Individual study in nutrition or food service management. Students must receive Instructor Approval for override into class.

NHM449A 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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): NHM 365

Writing

NHM450 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.

NHM451 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.

NHM452 Research Methods in Nutrition
Hours 3
This course is an introduction to scientific methods appropriate for nutrition research. Approaches to designing, conducting, and evaluating nutrition research are discussed along with strategies for applying research into practice.
NHM530 Advanced Nutrition Counseling  
Hours 3  
Focuses on advanced skills in nutrition counseling that incorporates behavioral theory and motivational interviewing.

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.

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.

NHM565 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.

NHM585 Clinical Nutrition Management  
Hours 3  
This course covers management principles for nutrition professionals who plan, coordinate, and manage the work operations of the clinical nutrition staff in healthcare facilities.

NHM587 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.

NHM588 Advanced Food Service Systems Management  
Hours 3  
This course covers foodservice organizational theory and leadership principles for nutrition professionals who oversee and direct the distribution of food, manage human and financial resources, and maintain quality control in quantity food service systems.

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.

NHM604 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 Secondary 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.

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 the Sport Industry
Hours 3
Introduction to the theoretical and applied foundations of sport management including the range of career opportunities and significance of skilled management within the sport industry.
RHM236 Creating the Fan Experience  
Hours 3  
Examine variables that impact a fan experience and review customer service practices that are necessary to maximize the success of a sporting event. Evaluating the experience and measuring fan satisfaction will be explored.  
Prerequisite(s): RHM 175 or RHM 235  

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 MATH 112  

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.  

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 Managing Quality in the Hospitality 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 in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the 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  
W  
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. This is a writing course. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): RHM 175 or RHM 235  
Writing  

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 and Entertainment Venue Management  
Hours 3  
This course will identify the management functions necessary in planning and executing sporting and entertainment events in sport/entertainment facilities. Financing, risk management, crowd control, food and beverage requirements, and emergency management will be reviewed.  
Prerequisite(s): RHM 175 or RHM 235

RHM338 Sport Marketing, Promotion, and Strategy  
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

RHM341 Catering Management and Quantity Foods  
Hours 3  
Catering Management and Quantity Foods is an examination of theory and techniques of professional catering and quantity food production and service.  
Prerequisite(s): RHM 175 and RHM 241

RHM355 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.

RHM356 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): RHM 175

RHM370 Event Marketing  
W  
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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.  
Prerequisite(s): RHM 175

RHM375 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): RHM 175 and (NHM 250 or NHM 253)

RHM377 Restaurant Management & Service  
Hours 3  
Principles and methods of producing and serving quality food in restaurants.  
Prerequisite(s): RHM 175

RHM380 Corporate Events  
Hours 3  
A comprehensive analysis of corporate events. Emphasis is on organizing, arranging, and operating corporate events and conventions. Corporate events include trade shows, product launches, training and development, incentive travel, and consumer shows.  
Prerequisite(s): RHM 175 and RHM 185

RHM385 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): RHM 175 and RHM 185

RHM387 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): RHM 175

RHM420 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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course. Juniors or Seniors ONLY.  
Prerequisite(s): RHM 175

Writing

RHM421 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.
RHM425 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): RHM 175 or RHM 185

RHM435 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): RHM 175 and RHM 336

RHM436 Current Trends and Issues in Sport Management and Entertainment
Hours 3
This course will introduce students to various current and future trends within the sport and entertainment hospitality industry. Additionally, students will examine the role these trends play in the management, operation, and future of sporting and entertainment events.
Prerequisite(s): RHM 235

RHM437 Analytics in Sport Hospitality
Hours 3
This course covers practical strategies to collect and analyze big data, disseminate results that will drive informed decision making, and optimize revenue in the sport hospitality industry.
Prerequisite(s): RHM 235, RHM 274, and MATH 110 or MATH 112

RHM438 Hospitality, Sport, & Entertainment Research Methods
Hours 3
An in-depth exploration of the importance of hospitality, sport, and entertainment industry research, the research process, and how research is used in the hospitality, sport, and entertainment industries. This is a writing course. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): RHM 235 and RHM 335

RHM439 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

RHM440 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 RHM 274 or AC 210 or AC 211

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

RHM455 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 Managem
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

RHM471 Mgt Service Food Bev Operation
Hours 3
Explores requirements in planning for and managing different types of food and beverage operations.

RHM472 Hotel Sales and Event Services
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

RHM473 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
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.

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 or RHM 235

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.

RHM551 Sport Properties and Venue Management  
Hours 3  
This course is designed for the sport professional to increase their knowledge and understanding of principles and practices associated with managing a public assembly venue and the nature of the venue business.

RHM552 Trends and Issues in Sports Business Management  
Hours 3  
This course is designed for sport professionals desiring to increase their knowledge and understanding of trends and issues in international sport programs. Being a travel class to the United States Olympic Committee headquarters in Colorado Spring, a travel fee is required.

RHM555 Sports Sales and Entrepreneurship  
Hours 3  
This course is designed for sport professionals desiring to increase their knowledge and understanding of sports sales and entrepreneurship in the sport industry.

RHM559 International Strategies in Sports  
Hours 3  
This course is designed for sport professionals desiring to increase their knowledge & understanding of management & administration issues in the international sport industry.

RHM560 Fellowship in Sports Business Management  
Hours 3  
This course is designed for sport professionals desiring to increase their knowledge & understanding of the sport industry. Under the supervision of an approved and qualified sports industry professional, the graduate student will experience activities related to job specific tasks in sports and hospitality. 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.

RHM561 Marketing, Sales & Public Relations in Sports  
W  
Hours 3  
This course is designed for sport professionals desiring to increase their knowledge & understanding of marketing, sales, and public relations in the sport industry.

Writing

RHM570 Leaders Mgt Hospitality Indus  
Hours 3  
An examination of contemporary leadership and management theories and practices used in the hospitality industry.

RHM575 Sport and Hospitality Financial Management  
Hours 3  
This course will focus on the application of financial management tools used to assist managers in the sport and hospitality industries. 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  
W  
Hours 3  
Formulation, development, and implementation of strategic management in the hospitality and tourism industry.

Prerequisite(s): None

Writing

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.

RHM593 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 the sports industry. This work experience must take place in a professional organization, in which the student has been selected and offered a fellowship. The professional experiences and fellowships aid the graduate student in expanding their management knowledge and skills in a variety of sport industry settings. These settings include sport, hospitality, tourism, athletics, and entertainment operations. The keys to “Success in the Sport Industry” are a committed investment in quality professional experiences, advanced level knowledge and ability to connect the theory to practice.
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

School of Law

LAW600 Contracts
Hours 4
Analysis of the agreement process, formalism, interpretation, default and its consequences, discharge, multiple party transactions, quasi-contracts, apportionment of losses, protection of the reliance interest and of the security of transactions, and the place of contractual obligations in the economic and social order.

LAW601 Property
Hours 4
No description available.

LAW602 Torts
Hours 4
An introduction to basic principles of liability for harm to persons and property. The course analyzes various categories of tortious conduct, defenses and immunities, damages, and underlying principles and policies justifying liability.

LAW603 Criminal Law
Hours 4
An examination of the substantive criminal law, its origin, and its sources; the elements of crime; and modifying circumstances and defenses. Also discussed are offenses against the person and property, those offenses involving specific intent, and public welfare offenses.

LAW604 Trial Advocacy: Criminal
Hours 3
This course provides students the opportunity to learn about and engage in the trial process in the context of a criminal case. Topics include theory of the case, opening statements, direct and cross examination, exhibits and demonstrative evidence, expert witnesses, and closing arguments. This course requires regular participation by students in primarily oral advocacy exercises centered on facets of the trial process.

LAW605 Civil Procedure
Hours 4
A survey and evaluation of the stages of a civil lawsuit: (1) the preliminary stage, including considerations relevant to choosing litigation over self-help, private settlement, or arbitration, to identifying and choosing among available forums, and to acquiring jurisdiction over parties; (2) the pleading stage, including familiarization with the procedures and devices relating to commencement of an action, service of process, and motion practice before trial; (3) the discovery stage, encompassing familiarization with the procedures and devices available to the parties to inform themselves fully of the evidence and sources of evidence relevant to the lawsuit; (4) the trial stage, including familiarization with the pre-trial conference, the steps of the trial process from voir dire through the entry of judgment, and the motions available at and after trial; and (5) the appeal stage, including an examination of the concept of appealability, a survey of alternative means of review, and an introduction to the rules on appeal.

LAW606 Privacy & Data Security Law
Hours 1-3
Privacy and data security incidents have changed the way consumers view companies like Google, Facebook, Equifax, and Target. As these types of incidents continue to make headlines and the volume of data collected, stored, and used by businesses continues to grow exponentially, companies are increasingly relying on attorneys to help them navigate the legal minefield of privacy and data protection. This course examines global privacy and data security legal doctrines and provides students with an opportunity to perform practical exercises that mirror the work performed by privacy and data security attorneys for their clients.

LAW607 Disability Law
Hours 1-3
An overview of federal and state laws concerning persons with disabilities. Major emphasis is on the Individuals with Disabilities Education Act, Section 504 of the Rehabilitation Act, and the American with Disabilities Act as applied to issues of employment, public accommodations, governmental services, education, and health care.

LAW608 Civil Procedure
Hours 4
A survey and evaluation of the stages of a civil lawsuit: (1) the preliminary stage, including considerations relevant to choosing litigation over self-help, private settlement, or arbitration, to identifying and choosing among available forums, and to acquiring jurisdiction over parties; (2) the pleading stage, including familiarization with the procedures and devices relating to commencement of an action, service of process, and motion practice before trial; (3) the discovery stage, encompassing familiarization with the procedures and devices available to the parties to inform themselves fully of the evidence and sources of evidence relevant to the lawsuit; (4) the trial stage, including familiarization with the pre-trial conference, the steps of the trial process from voir dire through the entry of judgment, and the motions available at and after trial; and (5) the appeal stage, including an examination of the concept of appealability, a survey of alternative means of review, and an introduction to the rules on appeal.

LAW609 Constitutional Law
Hours 4
The problem of interpretation and enforcement of the written Constitution of the United States and the nature of judicial supremacy are analyzed in their historical and modern contexts. The three branches of government and their interrelationships are considered, together with the nature of the federal system. The nature, sources, interpretations, and scope of the federal powers are considered, with special attention given to the commerce power. The Bill of Rights and the 13th, 14th, and 15th Amendments to the U.S. Constitution are especially considered.

LAW610 Legal Research/Writing
Hours 1-2
The students’ goal in this course is to learn how to convey a legal analysis of a problem in a written form that adheres to the conventions of the legal profession. They learn how to write legal analysis while preparing two drafts of a legal memorandum for which no research is required. Simultaneously students learn how to research legal problems by touring the library and completing research exercises. Finally, students apply what they have learned by interviewing a client, performing research on the client’s legal problem, and drafting a legal memorandum concerning the matter.
LAW611 Advanced Legal Research
Hours 2-3
This course teaches students how to research sophisticated tax law issues using the three main tax law databases. The first is Bloomberg Law which previously had a separate platform, BNA with its portfolios. Second, "Cheetah" is a product made available by Wolter Kluwer (formerly "CCH Intellitecconnect"). The third digital platform for researching tax issues, is Thomson Reuter's "RIA Checkpoint." Students will not only learn the methodology for researching using the respective databases but also learn the various resources available within databases.

LAW614 Democratic Institutions Seminar
Hours 1-3
In this course, students will study legal tools to strengthen and defend democratic government in the United States, and particularly, the role that lawyers can play in their communities in this regard. We will explore institutions, like the rule of law and free press that are intended to promote freedom, through readings that engage core themes. Active participation in each week's class discussion is a central requirement of the seminar. Students must fully engage with the reading and prepare in advance to discuss the nuances of scholarly and legal materials we will review, along with current opinion pieces and even fiction. Each student will be assigned to lead one in-class discussion.

LAW618 Montgomery Externship
Hours 10-12
The Montgomery Externship is a full-time, semester-in-practice field placement course. Students will work at a government agency or nonprofit organization in Montgomery, Alabama for one academic semester. By working full-time in a legal setting, students will have the opportunity to engage in meaningful work, learn first-hand about professionalism and ethics, and gain new legal skills. An attorney supervisor will provide direction and feedback to the student extern. The student will also submit reflective essays to the law school's Director of Externships, who will provide additional feedback.

LAW622 Oil And Gas Law
Hours 2-3
This course covers both general and Alabama law applicable to ownership and conservation of oil and gas. The course emphasizes private property and contract law concepts that are unique to oil and gas law and that govern the relationships among landowners and oil companies involved in exploration, production, and marketing of oil and gas. Administrative law aspects of federal and state oversight of oil and gas development are also addressed. Students are introduced to fundamental oil and gas legal terms, the concepts involved in private mineral ownership, the different types of interests that may be created in the oil and gas estate, conveying and title issues, state oil and gas administrative regulations, and the basic principle of the oil and gas lease under which wells are drilled and produced.

LAW624 Select Prob Criminal Law
Hours 1-3
This is an advanced course devoted to the study of substantive and/or procedural issues in criminal justice.

LAW625 Spec Prob Internatl Law
Hours 1-3
Special Problems in International Law.

LAW626 Special Topics in Law
Hours 1-4
Courses designated as Special Topics explore in depth an area of law that is not sufficiently covered by other courses in the curriculum.

LAW627 Advanced Legal Research
Hours 2-3
This course provides students with an opportunity to learn legal resources and research methodology more comprehensively than is done during the first-year Legal Research course.

LAW628 Consumer Protection
Hours 2-3
A survey of state and federal consumer protection law. Topics treated include fraud, unfair or deceptive sales practices, consumer credit, insurance, leases, and consumer protection in payment systems. Federal laws examined include Truth in Lending, the Fair Debt Collection Practices Act, the Fair Credit Reporting Act, RICO, and the regulation of consumer credit practices by the Federal Trade Commission. Class action litigation and arbitration are also studied.

LAW629 Trial Advocacy Competn Team
Hours 1-3
Enrollment is limited to members of the teams involved in the national trial advocacy competitions. Prerequisite: Trial Advocacy Competition Class (LAW 728).

LAW630 Adv Constitutional Law
Hours 1-3
This is an advanced course covering topics not covered in LAW 609(Constitutional Law) and of particular importance in the modern age. Illustrative topics include governmental regulation of the mass media and other questions regarding free expression; the emerging right of privacy; limitations on the arbitrary exercise of governmental and quasi-governmental power; and the role of state constitutional law in the resolution of modern societal problems.

LAW631 Workplace Law
Hours 1-3
This course provides an introduction to federal, state and common law rules that govern employment other than anti-discrimination rules. Topics covered may include employment contracts, the at-will doctrine, employee privacy, worker safety rules, wage and hour regulations, workers compensation, arbitration of disputes and collective bargaining.

LAW633 Gender And The Law
Hours 2-3
No description available.

LAW634 Externship
Hours 2-6
Placements are available for selected students in district attorneys' and other public sector offices. There are also a limited number of judicial placements available in the summer program. Students work full-time for six weeks. They observe and participate in pre-trial preparation, conferences, hearings, and trials. The course includes classroom sessions plus a written journal. Pass/D/Fail.
LAW635 Children's Rights  
Hours 2-3  
This course explores the legal basis of the emerging children's rights movement. The appropriateness of state intervention to protect children from abuse or neglect and to ensure adequate parenting and services such as medical care are among the areas covered. In addition, the juvenile justice system and its appropriate goals are discussed.

LAW636 Prob In Civil Procedure  
Hours 1-3  
This course focuses on specific topic not reached, or not studied in depth, in the first-year civil procedure course. The topics to be studied will vary with the professor teaching the course and will be announced.

LAW637 Advanced Evidence  
Hours 2-3  
This course, dealing largely with evidence at trial, is more practical than theoretical. Students are expected to apply general concepts of evidence to the resolution of actual trial problems. A premium is placed on the development of the student’s ability to articulate multiple grounds for both making and meeting objections to evidence.

LAW638 Political and Legislative Writing  
Hours 1-3  
This course examines the growing role of private sector lawyers and non-lawyers in the creation and implementation of federal policy. The immense size and scope of the federal government and the increasing pace of regulation within the American economy has made the role of contract lobbyists more omnipresent and structured than ever before. In short, with a trillion and a half tax dollars collected and redistributed every year, there are a lot of winners and losers associated with this collection and redistribution. The regulatory tinkering with the rules associated with participating in the 11 trillion US economy also produces winners and losers, sometime on a vast scale. This class will explore the myths and the realities of promoting federal policy positions for private industry.

LAW640 Alabama Civil Practice & Procedure  
Hours 1-3  
The focus of this course will be the interpretation and application of those rules in the Alabama Rules of Civil Procedure that civil litigators regularly encounter in their practice. Special attention will be paid during the course to the most recent decisions by the Alabama Supreme Court and the Alabama Court of Civil Appeals addressing civil procedure issues. As time permits during the semester, we may discuss some specific procedural aspects of particular kinds of civil lawsuits, such as wrongful death actions and workers’ compensation case.

LAW641 Tax Procedures  
Hours 2-3  
This class will examine the procedural laws governing the administration and enforcement of federal, state, and local taxation. This will include such topics as returns, assessments, tax litigation, penalties, and administrative procedures.

Prerequisite(s): LAW 643

LAW642 Evidence  
Hours 3  
This course introduces students to the traditions, principles, policies, concepts, sources of law, and professional (and unprofessional) attitudes that form the heart of an attorney’s life in the courtroom. Students will become familiar with Alabama and federal rules of evidence, both as present law and as examples of the rules forming the contemporary American law of evidence. Among the topics examined are: relevance; hearsay; procedures for admitting and excluding evidence; the calling, competence, and impeachment of witnesses; opinions and expert testimony; authentication of writings and identification of things; the original writing rule; and evidentiary privileges.

LAW643 Personal Income Tax  
Hours 3  
This course covers the Internal Revenue Code of 1986, emphasizing the fundamental rules dealing with the federal income tax action of individuals.

LAW644 Decedents Estates Trusts Plan  
Hours 3-4  
An introductory study of the process, law, drafting techniques, and concepts employed in intergenerational wealth transfer. The subject matter embraces material traditionally taught in courses on wills, intestate succession, trusts, and fiduciary administration as well as introductions to the law of future interests, powers of appointment, and estate and gift taxation.

LAW645 Business Organizations  
Hours 1-3  
A study of the basic legal problems concerning the organization, management, operation, and liquidation of the major business entities in the United States, emphasizing general partnerships and corporations. Topics include the fiduciary duties owed by the participants, the relationship between ownership and control of the enterprise, and problems associated with limited liability protection for the owners of the enterprise.

LAW646 The Law of War  
Hours 1-3  
This course will cover international humanitarian law, or the jus in bello. This is the body of international law governing armed conflict, including the choice of means and methods of warfare, proportionality in the use of force, and the protection of non-combatants.

LAW647 Federal Estate And Gift Tax  
Hours 2-3  
An introduction to the tax aspects of basic estate planning. Topics include federal taxation of inter vivos transfers, revocable and incomplete transfers, exclusions, the unified estate tax credit, and the correlation between income and estate taxation. Also covered are the federal taxation of property owned at death, jointly held property, property transferred within three years of death, retained life estates, life insurance, and powers of appointment; marital and charitable deductions; federal estate tax credits, deductions, and exemptions; and valuation problems.

Prerequisite(s): LAW 643 and LAW 644
LAW648 Legal Research/Writing II  
Hours 2  
This course focuses on teaching students to think and write persuasively as they learn to write an appellate brief. Students write multiple drafts of the brief and receive extensive feedback. Students also develop the skill of oral argument.

LAW649 Moot Court Competition - Legal Research and Writing  
Hours 1  
Advanced brief writing and oral advocacy at the appellate level. This course is open to participants in the John A. Campbell Competition.

LAW651 Special Problem Legislation  
Hours 1-3  
A specialized in-depth examination of current issues involving legislation. This course focuses on one or more specific topics.

LAW652 Race and the Law  
Hours 2-3  
The course addresses the racial and legal history of the major racial groups in the U.S., including African Americans, Native Americans, Latinos, Asian Americans, and Whites. As well, the course includes competing definitions and understandings of race and racism; the legal system's contribution to the construction of race; race, sexuality, and the family; race and popular culture; crime, racist and antiracist speech and expression; and responses to racism, including resistance, coalitions, and healing.

LAW653 Adv Civil Procedure  
Hours 2-3  
This is a general follow-up course to the first-year civil procedure course. It studies multiple procedural topics, such as preclusion, party-choice, joinder and appeals that are not studied in depth in the basic course. Generally offered every year or every other year.

LAW654 Spe Aspects Of Fam Law  
Hours 1-3  
A specialized in-depth examination of current issues involving family law. This course focuses on one or more specific topics.

LAW655 Immigration Law  
Hours 2-3  
Survey course on United States law on Immigration and Nationality, as well as underlying Policy, with a focus on actual immigration law practice as well as current political and legal development in immigration law and policies. The course covers recent trends in immigration law along with fundamental concepts. The primary focus is business and family immigration, but removal, asylum and refugee issues are covered.

LAW656 Moot Court Board  
Hours 1-2  
Limited to members of the John A. Campbell Moot Court Board.

LAW657 Moot Court Intersch Comp Team  
Hours 1,2  
Limited to moot court competition teams who (1) participated in the Campbell Moot Court Competition or (2) have an advisor for the competition team who is a member of the full-time faculty and received approval for academic credit for participating on the interscholastic team from the Faculty Curriculum Committee.

LAW658 Law And Psychology Review I  
Hours 1  
Limited to students who submit a publishable article to the Law and Psychology Review Journal.

LAW659 Law Psychology Review II  
Hours 2  
Limited to the editor-in-chief, managing editor, executive editors and managing board of the Law and Psychology Review.

LAW660 Legal Profession  
Hours 3  
This course is designed to investigate and describe the professional environment of the American lawyer. What lawyers do; competition, admission, and educational standards; and bar associations and other bar-related groups are examples of the subject matter discussed. The student studies the efficacy of professional rules and customs from a historical, economic, and sociological viewpoint.

LAW661 Payment Systems  
Hours 2-3  
This course focuses on Articles 3 and 4 of the Uniform Commercial Code, as well as debit cards, credit cards, and electronic fund transfers.

LAW662 Secured Transactions  
Hours 2-3  
This course focuses on commercial and consumer financing against personal property collateral under UCC Article 9 and on general credit law principles.

LAW663 Pretrial Advocacy: Civil  
Hours 3  
This course provides students the opportunity to learn about and engage in the pretrial process in the context of a civil lawsuit, including investigating facts, drafting pleadings, conducting and opposing discovery, and arguing dispositive motions. This course requires regular participation by students in written and oral advocacy exercises.

LAW664 Trial Advocacy: Civil  
Hours 3  
This course provides students the opportunity to learn about and engage in the trial process in the context of a civil lawsuit. Topics include theory of the case, opening statements, direct and cross examination, exhibits and demonstrative evidence, expert witnesses, and closing arguments. This course requires regular participation by students in primarily oral advocacy exercises centered on facets of the trial process.
LAW665 Clinical Program
Hours 1-6
Law clinics help second and third-year students develop the tools they need to serve clients, the profession, and society. All of the law school's law clinics have dual goals: to provide hands-on training in the professional skills and values needed for the successful, ethical practice of law and to provide free legal assistance to needy residents and nonprofit or governmental organizations in Alabama. Training in professional skills and values is accomplished by placing the law clinic student, as much as possible, into the role of attorney on the case under the close supervision of experienced law school faculty. Thus, with the client's consent and as allowed under the state's student practice rule, students are the primary or "first chair" attorneys on most cases. As student attorneys, they are given responsibility for client interviewing and counseling, case planning and management, factual investigation, legal research, drafting pleadings, briefs and other legal documents, negotiations, alternative dispute resolution, settlement, and trial and appellate advocacy. In the process of taking responsibility for actual cases, students move from observers to participants in the legal system and learn to integrate substantive law, procedures, and ethics with the professional skills needed for all aspects of their professional lives. Clinics help students develop the self-confidence needed to practice effectively in a competitive, fast-paced field. Clinics also assist students in understanding and fulfilling their ethical obligations as attorneys.

LAW666 International Trade and Investment Law
Hours 1-3
This course will cover the law and theory of the World Trade Organization and its associated treaties, particularly including the General Agreement on Tariffs and Trade. It will also cover sources of international law regulating cross-border investment, including bilateral investment treaties. It will further cover international arbitration as a dispute resolution mechanism commonly used in the context of international investment disputes.

LAW667 Conflict Of Laws
Hours 3
This course deals with the difficult task of choosing the substantive and procedural law that should govern and dispute or transaction when the law of more than one jurisdiction might apply. The standards governing this choice of law derive from the federal constitution, federal and state statutes and common law. The topic of personal jurisdiction also is considered.

LAW668 Complex Litigation
Hours 2-3
Students learn how the federal rules, particularly in the complex litigation area, can become instruments of policy. Topics include class actions and multi-district litigation.

LAW669 Introduction to Remedies
Hours 2-3
An introduction to remedies in civil litigation focusing on damages, restitution and equitable remedies in a variety of contexts. The course surveys the principles of compensatory and exemplary damages including measurement of injury and limitations on monetary relief, the availability of equitable and restitutionary relief, and the interplay among types of remedies.

LAW670 Federal Jurisdiction
Hours 1-3
This course is an in-depth study of federal jurisdiction, including the interplay between federal and state courts. Topics covered include federal question, diversity, supplemental, and removal jurisdiction as well as justiciability issues such as standing, ripeness, and mootness. Both the ability and obligation of state courts to provide a forum for Federal actions will also be explored along with a review of when and how state court decisions are reviewed by federal courts. This course will be useful to any law student, but it will be particularly rewarding to students interested in litigation and judicial process and to those aspiring to be law clerks for federal judges.

LAW671 Internl Bus Transacns
Hours 2-3
This course concentrates on developing transaction skills in an international context but applicable to all business settings, foreign and domestic; emphasis is on commercial analysis, deal structuring and documentation, with the laws and instruments of international commerce discussed as they are encountered. LAW 645 Business Organizations is recommended but not required to be taken. Open to MBA students.

LAW673 Pretrial Advocacy: Criminal
Hours 3
This course provides students the opportunity to learn about and engage in the pretrial process in the context of a criminal case, including investigating facts, examining the grand jury and indictment process, handling preliminary hearings and bond issues, and arguing pretrial motions. This course requires regular participation by students in written and oral advocacy exercises.

LAW674 Family Law I
Hours 1-3
This course covers subjects related to various aspects of family law, including illegitimacy, marriage, family relations such as support and property rights, guardianship, adoption, termination of marriage, and custody.

LAW675 Insurance
Hours 2-3
This course is a study of fundamental legal principles relating to various types of first-party and liability insurance contracts, focusing on property, life, health, automobile, and commercial and professional liability policies. Topics include rules of insurance contract construction; doctrines governing applications for insurance and representations made by the applicant; statutory and administrative regulation of insurance; and various issues arising in particular types of insurance.

LAW676 Labor Law
Hours 2-3
This course is about labor union activities and other forms of concerted activity. It focuses upon an employee's right to form or join a union and the right to refrain from such activities. The course covers the representative and unfair labor practice provisions of the National Labor Relations Act, including the formation of a labor organization and negotiations and administration of collective bargaining agreements.
LAW679 Real Property Security
Hours 2-3
Students in this course study real property security transactions, including mortgages and similar land financing transactions, as well as the various types of liens on real property. The course also provides a broader look at the lending industry and financing policies.

LAW680 Law & Popular Culture Seminar
Hours 2
This course explores the role of lawyers and legal institutions as depicted in popular culture, with a particular emphasis on film.

LAW682 State Governmental Affairs Externship
Hours 2-6
Gain knowledge of the state governmental affairs system by working in the appropriate placement site full-time (40 hours/week) for one of the two six-week summer externship sessions.

LAW683 Administrative Law
Hours 2-3
This course is the Civil Procedure of the administrative state. Focusing primarily upon federal law and federal agencies, the course introduces students to the processes of law making and law application by the administrative agencies of the executive branch and their control by the federal courts, Congress, and the President. The course covers the basic tools used by agencies rules making and adjudication, as well as the procedural and substantive rules that limit and guide the use of these tools. Special attention is given to the scope of judicial review, access to judicial review, the separation of powers, due process, and freedom of information.

LAW684 Antitrust Law
Hours 2-3
A study of federal laws intended to preserve a competitive marketplace. Topics for discussion include price fixing, restraints of trade, refusals to deal, monopolizing, and tying.

LAW685 Business Planning
Hours 1-3
Application of laws relating to unincorporated and incorporated business organizations and the federal income taxation of such organizations in the context of business planning and counseling situations. The course is based on a series of problems involving common business transactions that present business organization and tax issues for analysis and resolution.
Prerequisite(s): LAW 643 and LAW 645
Prerequisite(s) with concurrency: LAW 689

LAW686 Law In The United States
Hours 2-3
To introduce International Law Students to the basic structure, characteristics and operation of the legal systems of the United States. To provide an introduction to legal methodology and an overview of several major fields of substantive law in the United States.

LAW688 Law Office Practice
Hours 1-3
Much of a lawyer's work, particularly that of a general civil practitioner, is outside of the court room. This course provides the opportunity to draft documents for adoptions, estates, real estate, business entities, divorces, and conservatorships. It further exposes the student to the business of law practice as fee setting and malpractice prevention.

LAW689 Income Tax Busn Entities
Hours 2-3
Basic survey of tax issues in the formation, operation, and liquidation of C and S corporations and partnerships. Other recommended courses: Business Organizations (LAW 645).
Prerequisite(s): LAW 643

LAW690 Water Law
Hours 2-3
The laws governing ownership of water contained in rivers, creeks, lakes, aquifers, and the like have been hugely important in the American West since the pioneer days. Only in the last twenty years, however, have such laws gained attention in the Eastern states. Water law comprises the laws governing ownership of flowing water, groundwater, and the land underlying water. This class will cover water law in both the Western and Eastern American legal regimes and in international law and will touch on many areas of the law that intersect with water law, including Indian law, constitutional law, and federal jurisdiction. Students will also study emerging political issues in the control of what is perhaps the world's most important resource.

LAW691 Construction Law
Hours 2-3
This course will help students to recognize the variety of legal issues and problems that can confront owners, contractors, subcontractors, and suppliers during the construction process and to understand and analyze those issues and problems so that they are able to provide reasonably valuable advice and guidance to clients involved in the construction process.

LAW692 Products Liability
Hours 2-3
A general survey of sources, development, and limits of American laws providing compensation for injuries caused by defective products. Focuses on theories of liability, including negligence, misrepresentation, warranty, and strict tort liability under Restatement 2d and 3d of Torts.

LAW694 Land Use Planning
Hours 2-3
This course is concerned primarily with governmental regulation of the use of land. Consideration is given to the historical background of land use controls, contemporary zoning and subdivision regulation, constitutional limitations on land use regulation, specific problem areas such as referenda, consistency, and exclusionary zoning. Urban revitalization, eminent domain, and environmental regulation are involved in the study.
LAW696 Health Care Law
Hours 2-3
Survey of the work of the health care lawyer, providing an overview of health care policy; the structure of the institutions through which health care is provided; and health care finance and regulatory issues specific to the health care industry. Some of the legal topics covered include licensure, certificate of need, medical malpractice, antitrust, ERISA, restrictions applicable to tax exempt organizations, restrictions on patient referrals, access to care, medical malpractice, managed care liability, medical staff privileges, managed care credentialing, and insurance regulation.

LAW697 Worker’s Compensation
Hours 2-3
This course is a detailed analysis of Alabama Workers’ Compensation law including practicals of how to handle a workers’ compensation case from both the plaintiff and defense perspective. Detailed coverage given to meaning of “injury by accident,” “arising out of and in the course of employment,” compensation benefits, medical benefits, vocational benefits, calculation of benefits, and other issues relating directly to workers’ compensation. General coverage given to other issues including third-party actions, retaliatory discharge claims, subrogation, and issues peripheral to the workers’ compensation case.

LAW698 Latinos and the Law
Hours 3
This three-credit course would begin with several weeks coverage of the legal histories of the three largest Latino groups – Mexican-Americans, Puerto Ricans, and Cuban-Americans – then proceed to topics such as legal status, naturalization and citizenship; culture and identity; language rights; education, including the rights of the undocumented; immigration; cultural stereotypes and the media; workplace issues and discrimination; Latina feminism; and rebellious lawyering and resistance.

LAW700 Appellate Advocacy
Hours 1-2
This course is designed to examine all avenues of appellate advocacy, both state and federal, with a primary emphasis on the art of argument. While argument in trial courts and other venues will be addressed, the emphasis of those topics will be on the creation or presentation of a record for appellate purposes. The course features numerous exercises, both oral and written, and student participation in those exercises is required.

LAW701 Equit Extraord Remedies
Hours 2-3
Equitable remedies, such as injunctive relief and other basic principles of equity, are surveyed. This course demonstrates how the law of equity may be applied to other areas of substantive law, such as torts, contracts, and property.

LAW702 Environmental Law I
Hours 2-3
This course provides a thorough introduction to two basic forms of environmental legislation: the use of environmental planning (environmental impact assessment) as a technique for protecting the environment, and the use of traditional command-and-control regulation as a mechanism for pollution control. Attention is also given to the pros and cons of using effluent taxes and market incentives as additional or alternative regulatory mechanisms. The National Environmental Policy Act, the Clean Water Act, and the Clean Air Act are analyzed comprehensively. Special attention is given to questions of statutory interpretation, legislative history, judicial review, and enforcement of environmental standards. Also addressed are such topics as pollution prevention, the Endangered Species Act, and the protection of environmentally sensitive ecosystems like wetlands.

LAW703 Corp Mergers Acquisitins
Hours 1-3
This course covers the basic corporate law aspects of corporate mergers and acquisitions. The advantages and disadvantages of various acquisition forms, such as mergers, asset acquisitions, stock purchases, and tender offers, are discussed. Significant focus is given to the duties of the board of directors of the selling company, including the duties of the board in both negotiated and hostile acquisitions. Anti-takeover devices are considered, and securities law issues are surveyed.

LAW705 Altern Disput Resolutn
Hours 2-3
This course surveys alternatives to trial, including negotiation, mediation, and arbitration.

LAW706 White Collar Practice
Hours 1-5
Substantive law in the area of business crimes and torts will be covered. These include conspiracy, mail and wire fraud, RICO, money laundering, false claims and corporate criminal liability. Procedural issues arising from white collar crime will also be covered.

LAW709 Securities Regulation
Hours 1-3
A basic course in the federal regulation of securities, emphasizing disclosure and other requirements for initial public offerings, exemptions from these requirements, and the antifraud rules, including insider trading. The course will also consider securities regulation on the state level.

Prerequisite(s): LAW 645

LAW710 Public Internatl Law
Hours 1-3
This is an introductory survey course in the legal principles governing the conduct of nations with each other and with individuals. Contemporary problems are examined in the light of those principles. This course does not address regimes governing international trade, which are the subject of a separate course (LAW 666 International Trade Law).
LAW711 Higher Ed And The Law
Hours 2
An exploratory survey of the ways in which various facets of higher education, in both public and private institutions, are subject to the legal process. Topics may include students' rights and responsibilities; and internal and external authority with respect to such issues as curriculum, admissions, discipline, free expression, and athletics.

LAW712 Law Review I
Hours 1
Limited to members of the Alabama Law Review.

LAW713 Introduction to the Study of Law
Hours 1
Introduction to the Study of Law is a one-credit, required course for students taking Contracts I in Summer 2015. This class introduces students to the study of law. It is designed to give you the knowledge and skills that will prepare you for your other first-year courses. Topics covered will include an overview of the American legal system, legal methodologies, legal concepts, and the role(s) of law students and lawyers.

LAW714 Information Privacy Law
Hours 2-3
This course seeks to understand how courts and legislatures have sought to protect information privacy in light of emerging social and technological changes. This course will examine various challenges to information privacy, including domestic surveillance, social networking, and big data accumulation. Information privacy is an increasingly important area of law, as businesses across the country regularly seek advice from lawyers on privacy issues. This course will focus on information privacy in various areas of law, including torts, constitutional law, and statutory law.

LAW715 Judicial Opinion Drafting
Hours 2
This course is designed to introduce students to the duties and responsibilities of judicial clerkships. This course involves writing bench memoranda and draft opinions at both the trial and appellate levels.

LAW716 Law Review V
Hours 2
Credit is limited to the Editor in Chief, Managing Editor and Executive Editors of the Alabama Law Review Journal.

LAW717 Jurisprudence
Hours 1-3
This course addresses foundational questions about the sources, content, and structure of law; the relationships between law and morality; and the ultimate values of legal systems, including justice and equality. Readings vary from year to year, but typically include cases as well as selections from prominent political and moral philosophers.

LAW719 Law And Religion
Hours 2-3
The course offers a close analysis of church-state issues throughout America's history and examines the theological and ecclesiological assumptions underlying the development of the law of religious liberty. Topics include the religious dimensions of American constitutionalism, American civil religion, the role of religion in American politics, the establishment and free exercise clauses of the First Amendment, and the attempt to define religion for constitutional purposes.

LAW720 Tax Policy
Hours 2
This course will examine certain fundamental issues bearing on the choice of features of a tax system. This course will not delve into the detailed mechanics of current tax law; rather, the focus will be on thinking critically about what a tax system could or should be.

LAW721 Employment Discrimination
Hours 2-3
A survey course that canvasses the principal federal statutes prohibiting employment discrimination on the basis of race, color, creed, sex, religion, age, national origin, and disability. In addition to analyzing various theories of employment discrimination law as articulated by the courts, the course emphasizes the practical aspects of prosecuting and defending discrimination claims in litigation. Special emphasis is placed on gender discrimination issues, including sexual harassment. The course will be relevant to students who anticipate litigating, practicing employment law, or serving a federal judicial clerkship.

LAW722 Copyright Law
Hours 2-3
A survey of federal laws conveying rights to copyrights. This course, Trademarks and Unfair Competition (Law 752) and Patent Law (Law 835) provides an overview of intellectual property.

LAW723 Law And Economics
Hours 2-3
A study of law using the tools, concepts, and perspectives of economic analysis.

LAW724 Banking Law
Hours 2-3
This course is concerned with the federal regulation of national and state-chartered financial institutions. Topics addressed include the history of banking in the United States, entry restrictions, expansion through the bank holding company structure, branching, liability issues, limitations on bank activities, and the regulation of failing financial institutions.

LAW725 Education Law
Hours 2-3
This course provides students with a broad overview of developments in education law and policy by examining the historic and changing role of law and legal institutions in structuring American public and, to a lesser extent, private elementary and secondary education. It introduces students to the major constitutional, statutory, and regulatory authorities that influence the management and operation of American K-12 schools. Subjects to be explored include theories of compulsory attendance requirements; school choice; educational privacy rights; school board governance; educational equality; academic freedom; school finance; professional and contractual responsibilities of teachers; and compliance with state and federal mandates.
LAW726 Civil Rights Actions: Enforcing the Constitution  
Hours 2-3  
This course moves beyond the coverage of the basic constitutional law course, which focuses on theories of constitutional interpretation and on the contours of substantive constitutional doctrine, to explore the theory and practice of litigating constitutional and certain other civil rights claims and to examine some of the surrounding history and context. It covers the nuts and bolts (and theoretical underpinnings) of litigation of constitutional claims against governments or their officials and employees. While concentrating on 42 U.S.C. § 1983, the workhorse of constitutional litigation against local governments and state and local officials and employees, it also covers Bivens actions against federal officials and employees and briefly looks at the surviving remnants of other Reconstruction Era civil rights legislation such as 42 U.S.C. §§ 1981, 1982, and 1985. This course does not cover modern civil rights legislation in areas such as voting, employment, public accommodations, housing, disabilities, etc., which are covered in other classes.

LAW727 Bankruptcy  
Hours 1-3  
This is the foundational course for the study of the federal Bankruptcy Code and the regulation of the legal relationships between creditors and insolvent debtors. The course begins with a brief survey of individual state law collection remedies and non-bankruptcy composition and liquidation schemes. The remainder (and bulk) of the course focuses of the rights, obligations, and procedures created by federal bankruptcy law. Topics include: commencement of the case, the automatic stay, property of the estate, claims and priorities of distribution, avoidance powers of the bankruptcy trustee, use and protection of collateral during the pendency of the case, treatment of executory contracts and leases, discharge of debts, and exemptions. Basic coverage of Chapters 7, 11 and 13 is included.

LAW728 Trial Advocacy Competn  
Hours 1-3  
In this course, students compete for selection to national trial advocacy teams by trying cases based on prepared file materials. Enrollment is limited and based on (1) the demonstration of superior litigation skills in Trial Advocacy I (LAW 663), (2) prior membership on a national trial advocacy team, or (3) tryouts. Students who receive credit for this course are not eligible to enroll in LAW 664 (Trial Advocacy II). Pass/D/Fail.

LAW731 Special Topics in Law  
Hours 1-4  
Courses designated as Special Topics explore in depth an area of law that is not sufficiently covered by other courses in the curriculum.

LAW732 Employee Benefits/Executive Compensation  
Hours 1-3  

LAW733 Federal Legislative Externship  
Hours 10-12  
Students participating in federal externships obtain or enhance valuable practical skills by working full-time in Congressional or federal executive branch placements. These skills include legal research and writing, knowledge of substantive and procedural law, appreciation of professional responsibilities, and knowledge of the federal legislative or administrative system, among others. Students will also complete a classroom component and submit written coursework related to the experience.

LAW734 Survey Of Australian Law  
Hours 2  
This course explores a number of subjects where there are substantial differences between the Australian and American approaches to law and government. Limited to students participating in the Law School's summer program at the Australian National University (Canberra, Australia).

LAW735 Crim Procedure Pretrial  
Hours 2-3  
This course surveys issues pertinent to the pre-trial stages of criminal prosecution, including federal and state constitutional principles and procedural rules. Topics considered include the Fourth, Fifth, and Sixth Amendments, with emphasis on such matters as search and seizure, the privilege against self-incrimination, and the right to the assistance of counsel.

LAW736 Spec Probs In Evidence  
Hours 1-3  
This course examines the evolving issues in evidence law.

LAW737 Business Bankruptcy  
Hours 1-3  
This course focuses on problems faced by financially distressed businesses in the context of the bankruptcy process. The course will consider Chapter 7 liquidations as well as Chapter 11 reorganizations, but particular emphasis is placed on restructuring and reorganizing under Chapter 11. Topics include: the filing of a business bankruptcy case; administration of the case and appointment of professionals; use, sale, or lease of property of the estate, including cash collateral; claims of the estate and against the estate; debtor-in-possession (DIP) financing, the role of the DIP versus the trustee; formation and role of the creditors’ committee; plan formulation and claims impairment; vote solicitation and the plan confirmation process; and the use of reorganization plans as instruments of orderly and/or strategic liquidations.

LAW739 Journl Of Legal Prof I  
Hours 1  
Limited to members of The Journal of the Legal Profession.

LAW740 Employment Law Drafting  
Hours 2-3  
This course will focus on many of the documents that employment lawyers draft, including non-litigation or pre-litigation policies and agreements, responses to enforcement agencies, and litigation documents such as pleadings, motions, and discovery. It will also require collaboration, skills used in practice, and professional conduct in all dealings with co-counsel, opposing counsel, clients, and the court.
LAW741 Federal Government Contracts
Hours 2-3
This course is designed to introduce students to the laws governing contracting with the federal government including the policies and limitations of public contracting, procurement procedure, contract types, cost and price principles, remedies, and claims procedures.

LAW742 Legislation and Regulation
Hours 2
The suggested course is not intended to be an "Administrative Law Light" or a proto Constitutional Law course. Topics such as the structural role of agencies in the separation of powers, presidential control of agencies, the Administrative Procedure Act, judicial review of agency action, agency adjudication and enforcement, and private enforcement of statutory duties would be left for Administrative Law and related electives; topics such as justiciability, the separation and balance of powers (and specific discussion of Article I, Article II, and Article III powers), due process, and equal protection would be left for Constitutional Law and related electives. Nor would the proposed course be about the sausage-making of the legislative process (e.g., lobbying and lobbying regulations, campaign finance law, First Amendment issues, and so on). The first-year Constitutional Law course and upper-level electives in administrative law, legislative process, election law, and advanced constitutional law would not be preempted. The proposed first-year course would instead provide a grounding in the writing, interpretation, and application of both statutes and regulations - ideally at both the federal and state level. This would necessarily include some aspects of the legislative process - for example, the role of conference committees, who prepare authoritative reports on why specific language made it into the final version of a bill, and the use of legislative history by courts. It would also necessarily include some aspects of the administrative law process - particularly the role of agencies, state and federal, in writing regulations that implement statutes, and the role of courts in applying Chevron and Skidmore deference in interpreting regulations. The course would also cover the canons of statutory interpretation and canvass various big picture approaches to statutory interpretation - originalism, textualism, dynamic interpretation, purposivism, and the like. The course would be trans-substantive, teaching students the tricks of the trade in interpreting and applying statutes and regulations in a range of areas. The course may therefore preempt the current upper-division course on statutory interpretation.

LAW743 Journ Of Legal Prof V
Hours 2
Credit is limited to the Editor in Chief, Managing Editor and Executive Editors of The Journal of the Legal Profession.

LAW744 Legislative Drafting
Hours 2-3
This course is an introduction to legislative drafting. Objectives for this course include: (1) understanding the forms and conventions of legislative drafting; (2) learning to conceptualize legislative solutions to social problems; and (3) appreciating the relationship between legislative drafting and substantive policy.

LAW747 Will Drafting
Hours 1-3
Problems with and practice in the drafting of wills.
Prerequisite(s): LAW 644

LAW748 Problems Corporate Law
Hours 1-3
Special Problems in Corporate Law.

LAW749 Advanced Torts
Hours 1-3
An in-depth treatment of specific problems raised in the introductory course in torts. Coverage varies but may include in any given year invasion of privacy, defamation, insurance as it relates to tort liability, and theory of negligence.

LAW751 Criminal Procedure: Post-Conviction Proceedings
Hours 1-3
This course surveys procedural rules and constitutional principles pertinent to the post-trial criminal process. Topics considered include post-conviction motions and hearings, appeals, collateral proceedings (habeas and the like), clemency/pardon procedures, and collateral consequences such as exclusion from government contracting, loss of voting rights, registration as a sex offender, etc.

LAW752 Trademarks & Unfair Comp
Hours 2-3
A survey of the law of trademarks, trade secrets, the right of publicity, and unfair competition. This course, Patents (LAW 835), and Copyrights (LAW 722) together provide an overview of intellectual property.

LAW754 Legal Anthropology
Hours 2-3
A theoretical consideration of the concept of law as it applies to smaller societies around the world. Includes methods and processes of settling disputes, definitions of law, and related questions.

LAW756 Family Law II
Hours 2-3
Family Law II is an advanced family law class focusing on analysis of issues relating to divorce, alimony, and child custody in both theoretical and practical contexts. Family Law I is a prerequisite. Students may be required to draft documents and apply knowledge in trial settings.
Prerequisite(s): LAW 674

LAW758 Unincorporated Business Entities
Hours 2-3
This course will survey the issues arising out of the formation, operation, and dissolution of unincorporated business organizations including limited liability companies, limited partnerships, limited liability partnerships, and joint ventures. Topics that may be covered include choice of entity, financing, governance, fiduciary duties, owner liability and rights, allocation of profit and loss, distributions, capital accounts, taxation, and securities law.

LAW759 Special Probs In Labor Law
Hours 2-3
Special Problems in Labor Law.
LAW760 Accounting For Lawyers
Hours 1-3
This course introduces the basic concepts and principles of accounting. This is an introductory course and, as a result, assumes no prior knowledge or experience with accounting. Objectives of this course include: (1) a working knowledge of accounting; (2) the ability to understand the language of accounting; (3) enhanced ability to communicate with those in the accounting professions; and (4) the ability to critically review and analyze financial statement information.

LAW761 International Taxation
Hours 1-3
Prerequisite(s): LAW 643 and LAW 689

LAW763 Seminar in International Environmental Law
Hours 1-3
This seminar explores a number of ways the world community has tried — with varying degrees of success — to protect the global environment. While the seminar addresses some traditional aspects of international environmental law, most of the attention is on a number of recently emerging issues — many of which concerned the world community when it gathered at the Earth Summit (UNCED) in Rio de Janeiro. Global warming, ozone depletion, sustainable development, tropical deforestation, the protection of the global commons, biodiversity, population growth, the greening of the WTO, the future of the U.N. Environment Programme, and the environmental policies of the European Union are considered.

LAW764 Special Problems In Constitutional Law
Hours 1-3
This is an advanced course, the content of which varies. Topics treated in the past include the relationship between liberty and property; substantive and procedural problems raised when the government grants, withholds, or terminates largesse; the constitutional dimensions of nongovernmental intrusions upon individual liberty; and U.S. Supreme Court practices and procedures, including mock deliberations and opinion writing in pending cases.

LAW765 Corporate Finance
Hours 1-3
An advanced course in corporations emphasizing the legal conflicts between corporate bondholders, preferred shareholders, common shareholders, and corporate management in a variety of transactions, including recapitalizations, redemptions, mergers and acquisitions, and conversion of securities. The course focuses on the role fiduciary duties and contractual arrangements play in addressing these problems and examines the concepts, from a legal point of view, surrounding enterprise and securities valuation.

LAW766 Real Estate Finance and Development
Hours 2-3
An examination of the real estate development process and legal relationships involved in the process. The course will acquaint the students with such areas as site selection and entity choice, acquisition and disposition transactions, the regulatory process (state and federal), and issues arising during the construction period.

LAW767 International Semester Abroad
Hours 1-16
This course expands the international law offerings for UA law students by permitting them to study international law subjects in courses taught by distinguished international law scholars on international campuses at Tel Aviv University (TAU), National Law University-Delhi (NLU-D), and other UA Law School partners around the world. Participants may register for 1 to 16 credit hours. The semester abroad course is supervised by the Law School's Director of International Programs.

LAW769 Poverty Law
Hours 2-3
This course has three overlapping goals: to consider the legal, social and economic problems affecting our nation's poor; to develop the skills and substantive knowledge needed to provide effective advocacy for low income clients; and to think about the structural causes of poverty. The class will involve some field work.

LAW771 Environmental Law II
Hours 2-3
This course explores the regulation of toxic substances and the cleanup of uncontrolled releases of hazardous substances. This course begins with a focus on the way in which the regulation of toxic chemicals has evolved under the Clean Water and Clean Air Acts. It then proceeds to a more extended study of the two primary statutes that deal with toxics: the Resource Conversation and Recovery Act (which regulates the disposal of solid and hazardous waste) and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or Superfund). In addition to examining the regulatory and cleanup strategies contained in these statutes, we will pay particular attention to the issues of enforcement and judicial review. Finally, the course will look at the special way in which we regulate pesticides and the production and commercial use of toxic chemicals — and how we have tried to use the spotlight of public attention to reduce the discharge of toxics to the environment. The course has particular relevance for those who are aiming for a career in environmental law since much of the work done in the private sector was well as the governmental and NGO sectors involves either RCRA or CERCLA. Environmental Law I is NOT a prerequisite for the course.

LAW772 American Legal History
Hours 1-3
This course deals with the history of the United States viewed through aspects of the law, the legal profession, legal education, and the evolution of constitutional principles. Focus is on the background and context of the growth of American law and legal institutions and on the ways in which law and legal concepts have been centrally important in American History. Major emphasis is given to the period of the Revolution, the growth of positivism, the Gilded Age, the Progressive Era, the New Deal, and the Cold War period.
LAW773 Australian And American Law
Hours 3
This course explores the differences and similarities of U.S. and
Australian law in a particular area. A variety of legal topics have been
explored in the past such as Environmental Law, Constitutional Law,
Family Law, and Criminal Law. This exposure to the ways in which
Australians approach the law enables our students to better appreciate
and understand the choices we make here in the United States about
legal rules, regulatory structures, and institutions. The course, moreover,
provides valuable insights into the increasingly global nature of law and
legal practice.

LAW774 Capital Litigation
Hours 2-3
This course conducts a systematic, thorough analysis of capital
punishment law and litigation. Among the topics covered are the pros
and cons of the death penalty; the various capital punishment schemes
or systems including a thorough review of the specialized procedural
aspects of capital litigation; prosecutorial and judicial discretion in
capital cases; and post-conviction proceedings.

LAW776 Sales Law
Hours 2-3
Sales Law is an advanced course that deals with the law governing
transactions in goods. It will focus primarily on the portion of UCC Article
2 that is not studied in the first-year Contracts course. Special emphasis
will be given to the warranty, breach and damage provisions of Article 2.
The students review each stage and apply these various bodies of law.
The course uses both the case law and problem method to understand
the application of the law.

LAW777 Bankruptcy Litigation
Hours 2-3
The overall goal of this course is to provide students with direct, hands-
on experience with the lawyering process in the context of issues and
disputes that commonly arise during a typical contested bankruptcy
case. Students will be assigned to teams representing either creditors
or debtors/trustees and the teams will prosecute or defend various
contested matters and adversary proceedings. Assignments may include:
the debtor’s schedules and the claims process, objecting to confirmation,
seeking relief from the automatic stay, assumption or rejection of
executory contracts and leases, nondischargeability claims and defenses,
and avoidance claims and defenses. Assignments will require each team
to discuss and research applicable legal principles, develop relevant
facts, draft appropriate pleadings or discovery documents, and argue
motions. Through these assignments, the course will address the
procedural issues unique to federal bankruptcy proceedings and their
interplay with rules of civil procedure and evidence, as well as local
bankruptcy rules. Students will be required to follow and report on
developments of a major pending bankruptcy case, and will be required to
attend at least one session of bankruptcy court in Tuscaloosa.
Prerequisite(s): LAW 727

LAW778 The Business of Being a Lawyer
Hours 1-2
The Business of Being a Lawyer (BBL) is designed to help students
navigate the legal profession and law related professions. It covers
the following: (1) The changing economics of the legal profession
and resulting consequences for graduating law students. (2) Personal
financial planning basics. (3) Emotional Intelligence ("E.Q."): an overview
of predictable life crises in adulthood, particularly for attorneys, and
psychological tools and resources available for handling such crises. (4)
"Free agency": how to market oneself through one’s working life, given the
fact that the average attorney changes jobs seven times in a career.

LAW779 Mediation Practice And Process
Hours 2-3
This course identifies how mediation fits within the existing dispute
resolution process; it analyzes the component parts of mediation; it
analyzes the mutuality of negotiations, as well as analyzing the strategies
and hurdles of two-party and multiparty mediations. The course usually
employs role-play of mediations to demonstrate the techniques used in
mediations. Generally offered once a year.

LAW780 Law & Neuroscience Seminar
Hours 2
This seminar will examine legal issues arising at the intersection of
law and neuroscience. Advances in neuroscience have led to a rapidly
growing understanding of the brain and its relationship with issues
such as behavior, decision-making, reasoning, memory, and emotions.
Recent technological advances, including fMRI and other types of "brain-
imaging," have contributed to this rapid growth. The field of law and
neuroscience (or "neurolaw") has been exploring the implications of the
science for law and public policy. This seminar will examine cutting-
edge issues and proposals currently facing courts, lawyers, legislators,
administrative agencies, and other policymakers. These issues include
assessments of criminal responsibility, insanity and capacity, juveniles,
proving pain and other injuries, lie detection, memory, and practical issues
in court (and in other litigation stages), among others. There are no
course prerequisites and no prior background in science is necessary or
will be assumed.

LAW783 Labor & Employment Arbitration
Hours 2-3
This course deals with the arbitration of labor and employment disputes,
including the history, theory, and practice of arbitration, pre-arbitration
grievance procedures, and the lawyer’s role in arbitration. Materials from
actual arbitration cases will be available, and members of the class
will brief cases and conduct mock arbitration hearings and practical
exercises.

LAW788 Intellectual Property Transactions
Hours 1-3
This course examines the transactional aspects of intellectual property.
Students will obtain the skills to draft and analyze intellectual property
agreements both in traditional contexts and in the dynamic environment
of new media.

LAW789 Sports Law
Hours 2-3
This class considers issues in both intercollegiate and professional
sports with an emphasis on constitutional law; tort and criminal law;
antitrust, labor law, and other issues of law in the field of sports, such as
considerations of Title IX, drug testing, violence, and the role of agents.
LAW790 Crim Procedure Trial
Hours 2-3
This course surveys procedural rules and constitutional principles pertinent to the trial phase of the criminal process. Topics considered include the Fifth, Sixth, and Eighth Amendments with emphasis on such matters as the bringing of charges, the rights to counsel and jury trial, jury selection procedures, the right to confront witnesses, and other issues and procedures raised by statutes, procedural rules and constitutional law.

LAW791 Juvenile Justice Jurisprudence
Hours 2-3
This course focuses on substantive legal and policy issues raised by juvenile crime, as well as procedural nuances present when a juvenile is processed through the juvenile and criminal justice system.

LAW792 Special Topic In Education Law
Hours 2-3
This introductory course will examine significant and practical issues and problems that arise in the development, administration and reform of public educational systems. Our perspective will be the national landscape, though we will examine and contrast Alabama law and practice on some topics. The course will involve some Socratic lecture; yet the main approach will be problem-based learning, requiring students to be actively engaged in identifying, developing, articulating and defending positions on the relevant topics and issues. Students will demonstrate legal scholarship and skills through drafting memoranda, motions and briefs, and through presenting oral argumentation and debate on relevant issues.

LAW793 Sentencing
Hours 1-3
This course focuses on sentencing philosophy, procedure, and law.

LAW795 Externship Program
Hours 2-6
During the academic year a limited number of placements are available in federal judges’ and magistrates’ offices in Birmingham, Alabama. Students must work in their assigned judge’s chambers for a minimum of 120 hours per semester (at 8 hours per week); attend two class sessions (one 4-hour class session at the beginning of the semester and a second 2-hour class session at the end of the semester); and write a 15-page paper describing legal and/or ethical issues the student encountered during his or her externship. Students will observe pre-trial hearings and trials and research and draft memoranda. Students will be visited on-site by a faculty member. Pass/D/Fail.

LAW796 Tax Exempt Organizations
Hours 1-3
Federal income tax rules for exempt organizations, classification, administrative requirements, penalty taxes, and unrelated business taxable income.

LAW797 Research
Hours 1
A student registered for independent study performs research under the supervision of a professor on a narrow topic of law. Prior to registering, the student and the professor execute a written agreement about the research. The agreement includes a description of the work to be done, a list of at least 4 learning goals of the research project, and a time frame for the project. Law students are limited to three hours of independent study toward graduation credit.

LAW798 Special Research
Hours 2
A student registered for independent study performs research under the supervision of a professor on a narrow topic of law. Prior to registering, the student and the professor execute a written agreement about the research. The agreement includes a description of the work to be done, a list of at least 2 learning goals of the research project, and a time frame for the project. Law students are limited to three hours of independent study toward graduation credit.

LAW799 Research Project
Hours 3
A student registered for independent study performs research under the supervision of a professor on a narrow topic of law. Prior to registering, the student and the professor execute a written agreement about the research. The agreement includes a description of the work to be done, a list of at least 2 learning goals of the research project, and a time frame for the project. Law students are limited to three hours of independent study toward graduation credit.

LAW800 Christian Legal Thought
Hours 2-3
This course or seminar will examine law and legal institutions from the perspective of Christian thought more generally. Topics covered may include the place of specifically Christian legal thought in legal thought generally; methodological issues; the relevance of Christian theology for law; Christian writings on jurisprudential topics such as justice, equality, and rights; historical influences on Christian understandings of law and politics; and Christian scholarship related to conventional legal subject matter such as contracts, property, torts, etc.

LAW801 Personal Income Taxatn
Hours 1-3
Introduction to the U.S. income tax with emphasis on income taxation of individuals. Study of basic concepts of income, exemptions, deductions, credits, and tax rate structure. Some emphasis is on fringe benefits and employee compensation issues.

LAW802 Estate & Gift Taxation
Hours 2
Federal estate taxation of estates and gift taxation of inter vivos transfers, including generation skipping transfers.

LAW803 Capital Gains Transact
Hours 1-3
LAW804 Reproductive Rights Seminar
Hours 2
The law governing human reproduction is complicated and rapidly evolving. Legal issues that arise out of the reproductive process can include elements of constitutional law, family law, civil rights law, health law, as well as tort and contract law. The purpose of this class is to introduce you to the legal and policy issues currently implicated in the reproductive process and explore potential frameworks for analyzing the novel situations that will undoubtedly arise as family structures and reproductive technologies evolve. The class will provide both an overview of the current legal landscape while also challenging you to think about what the law governing reproduction should be as a normative matter. While sometimes using international law as a point of comparison, the course will focus primarily on U.S. law and policy.

LAW805 Corporate Taxation
Hours 1-3
This course examines the federal income taxation of corporations and their shareholders including the income tax consequences of organizing corporations, corporate distributions, redemptions, and liquidations. It includes study of Subchapter S.

LAW806 Tax Estates & Trusts
Hours 1-3
Prerequisite(s): LAW 802 Estate and Gift Taxation

LAW807 Taxation Partners & Partnership
Hours 1-3
A study of the Federal income tax treatment of partners and partnerships (and entities classified as partnerships), including contributions to and distributions from partnerships, partnership operations, substantial economic effect regulations and special allocations, transfers of partnership interests, taxation of service partners, shifting of liabilities among partners, special basis adjustments, and terminations.

LAW808 Tax Procedure
Hours 1-3
Administrative procedure before the Internal Revenue Service, rulings, compromise agreements, deficiency assessments, refunds, penalties, statutes of limitations, Tax Court jurisdiction and procedure.

LAW809 Deferred Compensation
Hours 1-3

LAW810 Estate Planning
Hours 1-3
Income tax and estate and gift tax planning for individuals. Pre-requisites: Estate and Gift Tax required, Income Taxation of Trusts and Estates (recommended).

LAW811 Advanced Capital Transactions
Hours 1-3
Further study of capitalization and cost recovery rules. Alternative minimum tax. Modern tax shelters and IRS responses to them. Federal income taxation of natural resources, agriculture, and real estate development.

LAW812 Advanced Corporate Tax
Hours 1-3
Prerequisite(s): LAW 805 Corporate Tax

LAW813 State And Local Tax
Hours 1-3
Description of typical state taxes: Ad valorem (property), sales and use, individual and corporate income taxes. Study of federal cases and statutes that limit states in design of their tax systems.

LAW815 Health Care Liability
Hours 2-3
The course examines liability incurred in connection with health care delivery and finance, with the focus being on medical malpractice, informed consent and vicarious liability of institutional health care providers.

LAW816 Transactional Draftg Corp Law
Hours 1-3
This advanced legal writing course provides second and third year students with an opportunity to draft documents of ten utilized in representing business entities. It focuses on teaching general components of drafting corporate documents.

LAW818 Advanced Contracts Seminar
Hours 2,3
The first arc of the Seminar exposes students to the leading theoretical perspectives on contract law and policy - philosophy, economics, psychology, and sociology. The second arc involves the theory of drafting contacts, sometimes known as transaction design or contract theory (by economists). The final arc considers the issue of enforcement and execution of contacts, an issue of critical relevance to anyone drafting contacts, counseling clients, or making policy arguments. Altogether, the seminar provides students with a toolkit they would otherwise lack which helps them to distinguish themselves in the workplace.

LAW819 International Human Rights Law
Hours 1-3
This course will cover the sources of international law recognizing and securing human rights to individuals and groups. It will also consider the theory and policy issues connected to the study of international human rights law, as well as issues of implementation of international human right law in domestic legal systems. The primary sources of law to be considered include the 1948 Universal Declaration of Human Rights, the 1966 International Covenant on Civil and Political Rights, and the 1966 International Covenant on Economic, Social and Cultural Rights, along with a number of other issue-specific sources.
LAW820 Advanced Partnership Tax
Hours 1-3
The course will focus on selected topics of partnership taxation and also transactional issues arising in liquidation and merger of partnerships. Major rules applying to subchapter S corporations will also be covered.
Prerequisite(s): LAW 807 Partnership Tax

LAW821 Public Interest Lawyering
Hours 1-3
The course will consider lawyers' use of litigation and policy advocacy as issues associated with representing individuals unable to afford legal representation.

LAW822 Spanish for Lawyers
Hours 2
This class, conducted largely in Spanish, will emphasize communication and conversation. Lessons will be tailored to the individual students' abilities.

LAW823 English Legal History
Hours 2-3
This course is a study of the origins and development of English law, legal institutions and the legal profession.

LAW827 Jury Selection
Hours 2
This course examines jury selection, promotes the skills needed to be successful in the area of voir dire and jury selection and sharpens the skills for improving the chances of a favorable verdict at trial. The course is a professional skills course and requires student participation. Students will be assigned case files to review and develop voir dire and jury selection strategy.

LAW829 Civil Rights & Liberties Journ
Hours 1
Limited to members of the Alabama Civil Rights and Civil Liberties Law Review.

LAW831 Criminal Tax Procedure
Hours 1-3
This course addresses the numerous substantive and procedural issues that arise in the investigation, prosecution and defense of tax crimes and related offenses.

LAW833 Civil Rights & Liberties Journ
Hours 2
Limited to editor in chief and managing editor of the Alabama Civil Rights and Civil Liberties Law Review.

LAW834 Mental Health Law
Hours 2-3
This course explores the law surrounding mental health. Both civil and criminal aspects are covered, including but not limited to civil commitment, the right to refuse treatment, antidiscrimination law, fitness to stand trial and the insanity defense.

LAW835 Patent Law
Hours 3
A survey of Federal laws conveying rights to patentable inventions. This course, Trademarks and Unfair Competition (Law 752) and Copyright Law (Law 722) provides an overview of intellectual property.

LAW837 WMD Law and Policy
Hours 1-3
This course will cover the treaties and other normative regimes which comprise the international legal framework for regulating the proliferation of weapons of mass destruction (WMD).

LAW838 Adoption Law
Hours 1-3
This course offers a survey of adoption law. Students will learn historical and contemporary perspectives of adoption law including the application, selection and approval processes. Facets of various types of adoption such as intercountry, transracial, transcultural, stepparent, second-parent, kinship and same-sex adoptions will be considered. Also, recent developments in adoption law such as post-adoption contact, amendments of confidentiality statutes and efforts to eliminate barriers to adoption will be discussed. In this interdisciplinary course, law students will discuss psychological and sociological consequences of adoption as well as statutes, cases and regulations that govern adoption and the lawyer's role throughout the adoption process.

LAW839 Survey of Intellectual Property
Hours 1-3
This course is designed for students who either (1) know they want to pursue the upper-level IP curriculum and, perhaps, a career in IP; (2) know they do not want to be IP lawyers, but understand that intellectual property is an important area of the law and wish to obtain a flavor of its basic principles; or (3) are dubious of the IP enterprise, and simply want to know more about IP so they can make an informed decision about upper-level curricular choices and career goals.

LAW840 Advanced Intellectual Property: Patents and Technology Licensing
Hours 1-3
This course, designed for students schooled in all disciplines, including the humanities, will endeavor to introduce the student to the law and policy of the United States patent system.
Prerequisite(s): LAW 839 Intellectual Property

LAW842 Telecommunications Law
Hours 1-3
Telecommunications Law considers the jurisdiction and function of the Federal Communications Commission with respect to telephony, cable, satellite, and broadcast communications. In particular, the course considers various typologies of FCC regulation, including models based on free markets and competition, rate regulation of monopolies or oligopolies, and advancing public interest values. The course does not consider the regulation of journalism per se, but instead considers the regulatory and industry structures that frame modern communications.
LAW843 Lawyers and Social Change Practicum
Hours 3
Lawyers have long played key roles in ushering in social change. From the early abolitionists to civil rights lawyers who lent their skills to the NAACP's campaign against segregation, to those litigating today on behalf of prisoners, immigration detainees, and Guantanamo Bay inmates, Lawyers have served as vital agents of social change. This class is for law students who wish to develop their skills as instigators of social change and have or wish to develop a specific plan to perform that role. You should have pre-existing interest, if only an inchoate one, of a law-reform nature that you would like to expand and clarify while in law school so as to land running after you graduate and take the bar. This course is for students who can see themselves working as movement lawyers, whether in solo fashion, as members of a litigation team at a specialized agency or think tank, or part-time as pro bono attorneys while working at a conventional legal job at a firm or agency.

LAW844 Consolidated Returns
Hours 1-3
This course deals with the principles and mechanics of tax consolidations, including eligibility, inter-company transactions, inventory adjustments, basis of property and subsidiaries, net operating losses and limitations on their utilization, earnings and profits, and loss disallowance rules.

LAW845 Financial Reporting and Analysis
Hours 1-3
This course is a study of advanced topics in financial reporting and accounting and focuses on complex corporate reporting issues. The course is not only a study of financial reporting and disclosure requirements, but also includes controversial and emerging practices.

LAW846 Governmental/Non-profit Accounting
Hours 1-3
This course is an advanced level study of accounting and financial reporting for state and local governments. It provides a detailed review of the accounting and financial reporting standards promulgated by the authoritative body (GASB) influencing the accounting and reporting for state and local governmental entities. Course material covers fund accounting concepts and practices as well as government-wide financial reporting similar to private business consolidated reporting and the relationships between the two. Budgeting, accounting, and reporting standards and practices for other not-for-profit entities are also studied.

LAW847 Business Evaluation and Performance
Hours 1-3
This course develops and uses tools of financial and valuation analysis to evaluate the performance and assess the value of companies in the following areas: Financial Analysis and Performance Measurement What do the numbers mean? We will discuss tools for analyzing company strategy and financial performance. Value Creation Understanding that the goal of the firm is value creation. We'll discuss return on capital and growth drive value creation; how value creation is fundamentally more important than that of growing revenues, earnings per share, maximizing volume and/or market share; and, how companies and business units create value by investing capital in positive net present value (NPV) projects. Core Valuation Techniques and Financial Analysis There are many approaches to determine fair market value (FMV) of a firm. We will discuss discounted cash flow and comparable companies valuation approaches. The class will gain proficiency in performing discounted cash flow valuation analysis to value a company. This includes analyzing historical performance, benchmarking and strategic analysis and forecasting free cash flows, estimating the appropriate cost of capital, identify sources of value, interpretation of results. Students will analyze market multiples and precedent merger and acquisition transaction analysis to perform the market approach to valuation. Managing for Value and Using Valuation for Decision Making The class will utilize and interpret financial data and apply valuation techniques to make decisions about courses of action for a firm, discuss methods for creating value through mergers and acquisitions, divestitures and restructuring, and study valuation of distressed companies and the impact of financial leverage, Other Valuation Issues and Special Situations This course will explore the challenges of valuing high-growth and private companies, learn about the process of venture capital and early stage financing, and discuss leveraged buyouts and the approach to valuing highly leveraged companies.

LAW848 Professional Ethics in the Accounting and Business Environments
Hours 1-3
This course will serve as a general introduction to professional ethics in the accounting and business environments. We will discuss the fundamental ethical issues of business and society, the roles and responsibilities of the accounting and auditing profession, ethical behavior by management, and legal and professional guidelines that address the ethical concerns of society.

LAW849 Introduction to Accounting
Hours 1
Students will gain an understanding of basic accounting principles and the core objectives of accounting and financial reporting. Upon completing the course, students will be familiar with the three key financial statements – the balance sheet, the income statement and the statement of cash flows and have the ability to perform basic financial analysis. Key concepts will be reinforced with practical case work.

LAW850 Research
Hours 1
A student registered for independent study performs research under the supervision of a professor on a narrow topic of law. Prior to registering, the student and the professor execute a written agreement about the research. The agreement includes a description of the work to be done, a list of at least 2 learning goals of the research project, and a time frame for the project. Law students are limited to three hours of independent study toward graduation credit.
LAW851 Research
Hours 2

A student registered for independent study performs research under the supervision of a professor on a narrow topic of law. Prior to registering, the student and the professor execute a written agreement about the research. The agreement includes a description of the work to be done, a list of at least 2 learning goals of the research project, and a time frame for the project. Law students are limited to three hours of independent study toward graduation credit.

LAW852 Research
Hours 3

A student registered for independent study performs research under the supervision of a professor on a narrow topic of law. Prior to registering, the student and the professor execute a written agreement about the research. The agreement includes a description of the work to be done, a list of at least 2 learning goals of the research project, and a time frame for the project. Law students are limited to three hours of independent study toward graduation credit.

LAW853 Law and Public Policy
Hours 3

Public Policy analysis and argument is an essential part of the lawyer’s job, whether in private or government practice or in other capacities. This class is designed to give students a vocabulary and toolkit that will enable them to better evaluate laws, legal decisions, and regulations, lend persuasiveness to their arguments about public policy, and, perhaps most important, interact not only with other lawyers, but with officials, experts, and professionals in other fields who are accustomed to public policy analysis. Through relevant readings, mixed with case studies, we will cover such tools and topics as behavioral economics, the legislative process, public choice, cost-benefit analysis, decision making under conditions of uncertainty, the importance of agenda setting, comparative institutional analysis, rent-seeking, and democratic experimentalism.

LAW908 Dissertation Research: JSD Program
Hours 1-12

Following successful defense of the dissertation proposal, each JSD student enrolls in LAW 908 until completion of the research phase. Students work under the direction of a dissertation advisor until successful completion of the dissertation. Students complete 12 hours on research. Typically, students take 12 hours per semester, but not fewer than 3.

Prerequisite(s): JSD students must have successfully defended a dissertation proposal in order to enroll in LAW 908

LAW909 Dissertation Writing: JSD Program
Hours 1-12

Following successful defense of the dissertation proposal, each JSD student enrolls in LAW 908 and 909 until completion of the dissertation. Students work under the direction of a dissertation advisor until successful completion of the dissertation. Students must complete a minimum of 24 hours of dissertation research and writing. The first 12 hours focus on research and the last 12 hours focus on writing. Typically, students take 12 hours per semester, but not fewer than 3 unless all requirements are met and one hour is needed for graduation.

Prerequisite(s): JSD student must have successfully defended a dissertation proposal and successfully completed the dissertation research hours in order to enroll in LAW 909

College of Nursing Courses

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

NUR103 Freshman Compass: Nursing (Honors)
UH
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

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 4

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
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. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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): 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

NUR313 Special Topics  
Hours 1-10  
This course focuses on selected BSN topics under the sponsorship of a nursing faculty member with relevant expertise.

NUR315 Fundamentals of Nursing I  
Hours 2  
Integration of knowledge, theories and skills from the humanities, arts and sciences serves as the foundation for this introductory nursing course. Students will further build upon adult assessment skills necessary for critical thinking in professional nursing practice. Basic care techniques and psychomotor skills will be developed through practice in the clinical practice lab and simulation center. The nursing process will be presented as a framework for critical thinking, decision-making and nursing practice.  
Prerequisite(s): NUR 305, NUR 308, NUR 310

NUR316 Fundamentals of Nursing II  
Hours 5  
Integration of knowledge, theories and skills from the humanities, arts and sciences serves as the foundation for this clinical course. Students will continue to refine adult assessment skills necessary for critical thinking in professional nursing practice. Clinical skills related to nursing practice will be developed through practice in the clinical practice lab, simulation, and 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, NUR 308, NUR 310, NUR 315

NUR317 Indep Study in Nursing  
Hours 1-10  
This course focuses on individual 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 Nrsg 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
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 device 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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): NUR 324 and 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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): NUR 324 and NUR 326

University Honors, 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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.
Prerequisite(s): NUR 324 and NUR 326

University Honors, Writing

NUR332 Nursing Student Academic Success
Hours 2
The purpose of this course is to provide first semester upper division nursing students with an introduction to the nature of nursing education and to the function, resources, and activities of Capstone College of Nursing and The University of Alabama. The course will provide students with information about themselves as learners, a theoretical and practical understanding of nursing-specific learning strategies, and opportunities to apply these strategies—using processes of reflective decision-making and critical evaluation—for maximizing learning, academic success, and personal fulfillment. The course will explore topics for success, including: developing a better understanding of the learning process, acquiring basic academic survival skills, and ensuring maintenance of students’ physical and mental health and well-being. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for successful completion of the baccalaureate nursing degree program.
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
Hours 3

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

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 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. (Theory).

Prerequisite(s) with concurrency: NUR 319

Writing

NUR352 Pharmacology: Review of Current Practices
Hours 1

The purpose of this elective course is to provide students with an opportunity to review and develop their pharmacological knowledge through practical application. The course is designed to cover general principles of medication administration as well as how medications influence body systems and physiological processes. Through didactic instruction, case studies, and interactive learning activities students will enhance their knowledge of pharmacological and parenteral therapies.

Prerequisite(s): NUR 326

NUR355 Minds and Mentors Paraprofessional Training Program
Hours 3

Integration of knowledge, theories and skills to work as a behavioral health paraprofessional to support the needs of individuals with substance use problems and their families. Students will further build upon their personal experiences with substance use problems to develop competencies to successfully work with communities and other stakeholders.

NUR360 Honors Research Seminar/Practicum I

UH

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

NUR370 Rural Nursing
Hours 1

This elective course introduces nursing students to the basics of rural nursing. Emphasis is placed on health issues specific to local, national and global rural communities and the importance of evidence-based practice strategies in resolving rural health disparities.

NUR371 Rural Nursing Honors

UH

Hours 1

This elective course introduces nursing students to the basics of rural nursing. Emphasis is placed on health issues specific to local, national and global rural communities and the importance of evidence-based practice strategies in resolving rural health disparities.

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

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
**NUR401 Palliative Care in Nursing**
Hours 3
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.
Prerequisite(s): NUR 305 NUR 307 NUR 308 NUR 309 or enrollment in RN-BSN program

**NUR418 Prof Nurs Pract Childbear Fami**
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

**NUR419 Professional Nursing Practice Complex Client**
Hours 5
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. The first portion of this course serves as a bridge from adult health and mental health nursing concepts into a holistic approach to caring for clients with complex and critical health problems.
Prerequisite(s): (NUR 328 OR NUR 330), NUR 372, NUR 374

**NUR420 Prof Nursing Practice-Children**
Hours 4
This course focuses on actions designed to detect and intervene in actual or potential health problems in children and to determine actions that will ameliorate or reduce the consequences of disease in children through support or rehabilitation. Students will develop skills in early detection and diagnosis of disease in children and treatment of acute and chronic health problems. (Theory and Laboratory).
Prerequisite(s): NUR 328 or NUR 330, and NUR 372 and NUR 374

**NUR422 Prof Nursing Pract Comm Health**
Hours 4
Community Health Nursing is a required course 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 418 and NUR 419 and NUR 420

**NUR423 Transition to Professional Nursing Practice**
Hours 1
This course will pull together challenging concepts to better prepare the BSN graduate to transition into professional nursing practice. It will focus on team assessment, priorities and characteristics of a leader, time management, empowerment, change, personal growth, relationship management, and problem solving.
Prerequisite(s): NUR 418, NUR 419, NUR 420

**NUR431 Advanced Cardiac Life Support**
Hours 1
The purpose of this elective course is to provide students with an opportunity to participate in an American Heart Association approved ACLS provider course. The course is designed for healthcare providers who either direct or participate in the management of acute cardiopulmonary arrest or other cardiovascular emergencies. Through didactic instruction and interactive participation in simulated case studies, students will be able to enhance their skills in the recognition and intervention of cardiopulmonary arrest, immediate post-cardiac arrest, acute arrhythmia, stroke, and acute coronary syndromes (ACS).
Prerequisite(s): NUR 419

**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 experiential learning 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 the knowledge and practice of illness and disease management in non-institutional environments. (Theory and Experiential Learning Experiences).
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 experiential learning 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 Experiential Learning Experiences).
Prerequisite(s): NUR 319; and NUR 348; and NUR 329; and NUR 449 or with departmental approval
NUR460 Honors Research Seminar/Practicum II  
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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. Experiential Learning experiences are embedded to validate physical assessment and clinical reasoning using avatars in the virtual simulation environment. (Theory and Experiential Learning Experiences).

Prerequisite(s): NUR 319; and NUR 348; and NUR 329; and NUR 449 or departmental approval

NUR473 Professional Nursing Practice: Leadership

Hours 6

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, NUR 419, NUR 420

University Honors

NUR474 Professional Nursing Practice: Leadership-Honors

Hours 6

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, NUR 419, NUR 420

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 419 and NUR 420

NUR500 Population Health

Hours 3

The purpose of this required core MSN course is to prepare students to evaluate health care needs at the population level with a particular focus on rural and medically underserved populations. An epidemiological approach will be utilized to explore relevant population based topics.

Prerequisite(s): Admission into MSN Program

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.

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.
NUR507 Organizational & Systems Leadership
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Hours 3
The purpose of this required core MSN course is to prepare future nurse leaders for organizational and systems leadership in healthcare as it relates to producing quality patient outcomes in a safe and efficient manner. Writing proficiency is required for a passing grade in this course. A student who does not write with the skill normally required of a BSN student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

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

NUR513 Special Topics
Hours 1-4
This course focuses on selected MSN topics under the sponsorship of a nursing faculty member with relevant expertise.

NUR514 Research and Evidence-Based Practice
Hours 3
The purpose of this required core MSN course is to prepare students to evaluate research methods, designs, instruments, research ethics, and statistics used in health research. The course will also provide students with models for evidence-based practice design and translation and quality improvement. Students will formulate clinical questions, identify, evaluate and critically appraise evidence, and translate the evidence into practice environments for safe, quality care.

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 pursing 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.

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.

NUR519 Health Policy & Finance
Hours 3
The purpose of this required core MSN course is to introduce the student to relevant health care and governmental policies, regulatory standards, and financial management concepts to develop an understanding of how healthcare delivery systems are organized, financed, and most importantly, influence the delivery of patient care.

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

NUR528 Sleep: How Much is Enough
Hours 3
Sleep is a basic physiologic requirement of all beings. Therefore, we can all benefit from learning about what sleep is, why it is important in our lives, and how it can be influenced (positively and negatively). This elective course will challenge students to explore the impact sleep patterns have on human physical and emotional health, behaviors, and performance abilities.
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.

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 evaluating 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

NUR549 Roles & Leadership in Nursing Administration
Hours 3
The purpose of this course is to provide the student with the tools and resources to begin on site and online instruction. It will explore the use of computers, software, models, simulators, and other instructional media.
Prerequisite(s): Co-requisite: NUR 550

NUR550 Roles & Leadership in Nursing Administration Practicum
Hours 3
The purpose of this clinical course is to provide the student with the opportunity to apply concepts and theory from NUR 549 in an authentic clinical environment to narrow the theory practice gap through application and experiential learning. The focus is on application of leadership concepts to include working collaboratively in interdisciplinary teams, professional roles and scopes of practice, human resource management, staffing, conflict resolution, sustainable change, and decision-making practices.
Prerequisite(s): Co-requisite: NUR 549

NUR551 US Healthcare Systems and Quality & Safety
Hours 3
The purpose of this course is to prepare future nurse administrators for the complexities of healthcare management by giving them the tools and resources to understand and critically appraise the unique dynamics of the U.S. healthcare system. This course will include information related to healthcare delivery, quality improvement, public policy, laws, accrediting bodies, and regulatory statutes.
Prerequisite(s): Co-Requisites: NUR 552

NUR552 US Health Care Systems and Quality & Safety Practicum
Hours 3
The purpose of this clinical course is to provide the nursing administrator student with the opportunity to apply concepts and theory from NUR 551 in an authentic clinical environment to narrow the theory practice gap through application and experiential learning. The focus is on the application of public policy, laws, accrediting bodies, and regulatory statutes as they relate to the delivery of health care in the U.S.
Prerequisite(s): Co-Requisites: NUR 551

NUR553 Advanced Financing and Strategic Planning in Health Care
Hours 3
The purpose of this course is to prepare future nurse administrators to be highly effective and influential strategic planners and financial leaders within the organization. This course addresses principles of strategic planning and fiscal resource management to include SWOT analyses, business plans, reimbursement models, cost analysis, budgeting, contract development, financial aspects of program development and evaluation, and cost accounting and tracking.
Prerequisite(s): Co-Requisites: NUR 554

NUR554 Advanced Financing and Strategic Planning in Health Care Practicum
Hours 3
The purpose of this clinical course is to provide the student with the opportunity to apply concepts and theory from NUR 553 in an authentic clinical environment narrowing the theory practice gap through application and experiential learning. The focus is on the application of the principles of strategic planning and fiscal resource management to include SWOT analyses, business plans, reimbursement models, cost analysis, budgeting, contract development, financial aspects of program development and evaluation, and cost accounting and tracking.
Prerequisite(s): Co-Requisites: NUR 553

NUR557 Family Nurse Practitioner Role & Issues
Hours 3
This course includes the professional role of the Family Nurse Practitioner (FNP) serving diverse populations across the lifespan. Emphasis is on the influence of nurse practitioners on outcomes at the systems level. Students will assess complex demands; plan coordinated, multidisciplinary, evidence-based collaborative approaches to care; and appraise strategies for evaluation of outcomes.
Prerequisite(s): NUR 505, NUR 529 - with a grade of B or better
NUR569 Family Nurse Practitioner I
Hours 3
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 population are emphasized.
Prerequisite(s): NUR 505, NUR 529, NUR 521, NUR 567; Corequisite: NUR 570 With grade of B or better

NUR570 Family Nurse Practitioner Clinical I
Hours 3
This course provides an initial clinical experience for advanced practice as a Family Nurse Practitioner (FNP). The focus is on identifying and managing common acute, episodic and multiple chronic conditions based on current evidence. Health promotion and disease prevention strategies for the adult population are emphasized. FNP role responsibilities are demonstrated, within primary care settings, in order to meet the health care needs for diverse adult populations. Students must complete 120 clinical hours working with adults.
Prerequisite(s): NUR 567 Corequisite: NUR 569 with a grade of B or better

NUR571 Family Nurse Practitioner II
Hours 3
This course provides a theoretical and evidence-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 both the Pediatric and Women's Health populations. Health promotion and disease prevention strategies for the Pediatric and Women's Health populations are emphasized.
Prerequisite(s): NUR 569, NUR 570; Corequisite: NUR 572

NUR572 Family Nurse Practitioner Clinical II
Hours 3
This course provides evidence-based clinical experiences for advanced practice as a Family Nurse Practitioner (FNP). The focus is on identifying and managing common acute, episodic and multiple chronic conditions in both the Pediatric and Women's Health populations. Health promotion and disease prevention strategies for the specific populations are emphasized. FNP role responsibilities are demonstrated, within primary care settings, in order to meet the health care needs for diverse patient populations. Students must complete 180 clinical hours working with Pediatrics and Women's Health clients.
Prerequisite(s): NUR 569, NUR 570; Corequisite: NUR 571

NUR573 Family Nurse Practitioner III
Hours 3
This course provides a culmination of common health conditions and strategies for incorporating evidence-based practice for advanced practice as a Family Nurse Practitioner (FNP). The course focus is on identifying and managing common acute, episodic and chronic conditions across the lifespan and within a variety of vulnerable populations. As with the prior FNP courses, there will be a continued emphasis on health promotion and disease prevention in primary care populations. Strategies for FNP certification preparedness and extended role responsibilities will be explored.
Prerequisite(s): NUR 571, NUR 572; Corequisite: NUR 574

NUR574 Family Nurse Practitioner Clinical III
Hours 3
This course will provide the Family Nurse Practitioner (FNP) student with the opportunity to completely immerse in an autonomous advanced practice nursing role. Students will diagnose, manage, and treat common acute, episodic and chronic conditions across the lifespan, while maintaining an emphasis on health promotion and disease prevention. FNP students will engage in interdisciplinary collaboration for providing competent and evidence-based for all patients, including vulnerable populations, seeking care in primary care settings. There are 240 clinical hours needed for course completion.
Prerequisite(s): NUR 567; NUE 569; NUR 570; NUR 571, NUR 572 Corequisite: NUR 573

NUR591 Psychiatric Mental Health Nurse Practitioner Roles and Issues
Hours 3
The purpose of this course is to focus on concepts, theories and research underlying advanced practice psychiatric mental health nursing. The scope and standards of psychiatric-mental health nursing practice will be presented. Mental health treatment modalities across the lifespan including psychotherapy, psychopharmacological interventions, community interventions, case management and consult-liaison activities will be examined. Psychological, biological, social, and cultural influences on coping responses of individuals, families, groups, and communities of people/populations at risk are explored. Intervention models, including preventive care and health promotion are introduced.
Prerequisite(s): NUR 505, NUR 521 with a grade of B or better

NUR593 Psychiatric Mental Health Nurse Practitioner I
Hours 3
The purpose of this course is to focus on the study of Psychiatric Mental Health Nurse Practitioner (PMHNP) conceptual frameworks, theories, and research findings related to common psychiatric disorders among children, adolescents, and young adult patients in urban, suburban and rural settings. Biological and pharmacologic theories, developmental issues of children, adolescent and young adult patients, psychotherapeutic modalities, primary prevention, and evaluation of treatment will be emphasized.
Prerequisite(s): NUR 591; Corequisite: NUR 594

NUR594 Psychiatric Mental Health Nurse Practitioner Clinical I
Hours 3
The purpose of this clinical course is to provide the student with the ability to apply treatment of psychopathology. The role of the Psychiatric Mental Health Nurse Practitioner (PMHNP) in the assessment, diagnosis, and treatment of children, adolescents, young adults, and families in urban, suburban and rural settings will be explored. This course will also provide students the opportunity to apply psychobiological information in conjunction with the use of psychopharmacological and psychotherapeutic interventions with patients. Students must complete 120 clinical hours working with children, adolescents, young adults, and families.
Prerequisite(s): NUR 591 Corequisite: NUR 593
NUR595 Psychiatric Mental Health Nurse Practitioner II
Hours 3
The purpose of this course is for Psychiatric Mental Health Nurse Practitioner (PMHNP) students to learn how to critically appraise theoretical approaches for psychotherapeutic interventions with adult and elderly patients and families in urban, suburban, and rural areas. This course provides a theoretical basis for advanced practice of Psychiatric Mental Health Nursing. This course will also provide the student with an understanding of the dynamics, epidemiology, and treatment of selected psychopathologies, specifically focused on adult and elderly patients. In addition, the role of the PMHNP in the assessment, diagnosis, and treatment of adult and elderly patients with mental disorders will be explored.
Prerequisite(s): NUR 593, NUR 594; Corequisite: NUR 596

NUR596 Psychiatric Mental Health Nurse Practitioner Clinical II
Hours 3
The purpose of this clinical course is for Psychiatric Mental Health Nurse Practitioner (PMHNP) students to critically appraise and apply theoretical approaches for psychotherapeutic interventions with adult and elderly patients and families in urban, suburban, and rural areas. This course will also provide the student with an opportunity to apply the dynamics, epidemiology, and treatment of selected psychopathology, specifically focused on adult and elderly patients. In addition, the role of the PMHNP in the assessment, diagnosis, and treatment of adult and elderly patients with mental disorders will be applied. Students must complete 180 clinical hours providing psychopharmacotherapeutic and psychotherapeutic interventions to adults, elderly and their families.
Prerequisite(s): NUR 593, NUR 594; Corequisite: NUR 596

NUR597 Psychiatric Mental Health Nurse Practitioner III
Hours 3
The purpose of this course is for Psychiatric Mental Health Nurse Practitioner (PMHNP) students to demonstrate comprehension of multiple theoretical approaches for psychotherapeutic interventions across the lifespan in urban, suburban, and rural areas. This course also covers the dynamics, epidemiology, assessment, diagnosis, and treatment of selected psychopathologies. Appropriate evidence-based psychopharmacological and psychotherapeutic (individual, family and group) interventions are examined.
Prerequisite(s): NUR 595, NUR 596; Corequisite: NUR 598

NUR598 Psychiatric Mental Health Nurse Practitioner Clinical III
Hours 3
The purpose of this clinical course is for Psychiatric Mental Health Nurse Practitioner (PMHNP) students to demonstrate application of multiple theoretical approaches for psychotherapeutic interventions across the lifespan in urban, suburban, and rural areas. This course provides PMHNP students an opportunity to apply clinical skills in the assessment, diagnosis, and treatment of selected psychopathologies. Students will apply appropriate evidence-based psychopharmacological and psychotherapeutic (individual, family and group) interventions in a wide range of clinical settings. Students must complete 240 clinical hours treating patients across the lifespan (with a minimum of 40 child and adolescent).
Prerequisite(s): NUR 595, NUR 596 Corequisite: NUR 597

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

NUR621 Nurse Educator Practicum
Hours 4
This is an elective course for nurse educator students who have limited teaching experience or graduate nursing students who desire additional direct experience. The two didactic credits and two clinical credits (120 contact/clock hours) in this practicum provide opportunities to become embedded as a faculty member for one semester. Students implement classroom and clinical teaching and evaluation strategies grounded in education theory and evidence-based practice, and are devised for differing learner needs to produce desired learning outcomes. Students explore the scholarship of education and develop or refine a teaching experience or graduate nursing students who desire additional direct experience. The two didactic credits and two clinical credits (120 contact/clock hours) in this practicum provide opportunities to become embedded as a faculty member for one semester. Students implement classroom and clinical teaching and evaluation strategies grounded in education theory and evidence-based practice, and are devised for differing learner needs to produce desired learning outcomes. Students explore the scholarship of education and develop or refine a research trajectory. Then relate that trajectory to life-long professional development and targeted faculty, community, and professional service.
Prerequisite(s): NUR 531, NUR 532

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 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 to 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

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 practice 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 700

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.

NUR717 DNP Independent Study - Special Topics
Hours 1-4
The independent study option provides an opportunity for students to identify, structure, implement and evaluate learning experiences consistent with personal learning needs and career plans that are in addition to the current curriculum.

NUR729 Evidence-Based Practice Design and Translation
Hours 3
The purpose of this course is to provide students with models for evidence-based practice (EBP) design and improvement translation. Students learn to formulate clinical questions in answerable format, and search for and identify best research evidence. The focus of the course is to evaluate and critically appraise evidence for rigor and applicability to the clinical problem and is designed to improve clinical outcomes. Students will translate the evidence into practice environments for safe, quality care. Students will gain access to information that will support optimal clinical decision-making. Improvement translation sciences will also be introduced.
Prerequisite(s): NUR 700

NUR731 Philosophical, Theoretical, and Conceptual Foundations for Advanced Practice Nursing
Hours 3
This required core course for the Doctor of Nursing Practice program provides an understanding of the use of theory and conceptual foundations to guide the complexity of specialty nursing practice at the doctoral level. The content is derived from the philosophical and scientific underpinnings of nursing, natural, and psycho-social sciences.

NUR733 Informatics for Advanced Practice Nursing
Hours 3
This required course focuses on the collection, organization, analysis, and dissemination of information in nursing and health care. Students are introduced to the specialty of nursing informatics, the information system life cycle, telemedicine, and the use of technology to enhance nursing care delivery and patient safety. Also, students learn how to design, use, and manipulate large and small patient databases for the analysis of patient outcomes.
Prerequisite(s): NUR 700
Prerequisite(s) with concurrency: NUR 700

NUR734 Advanced Experiential Clinical Course
Hours 1-7
This course is designed to validate Master's level competencies in clinical and organizational leadership. The course is required for post-master's DNP students who are graduates of programs in nursing with less than 500 clinical hours.

NUR735 Population Health in Advanced Practice Nursing
Hours 3
This required course for the Doctor of Nursing Practice program prepares the student to implement specialty population-based disease prevention and health promotion activities to achieve national and international goals of improving worldwide health status. The course focuses on a spectrum of issues affecting health, which include emerging infectious diseases, emergency preparedness, disparities in health and healthcare services, and the impact of behavior and lifestyle choices on health.

NUR737 Interdisciplinary Leadership and Role Development for Practice Excellence
Hours 3
This required course in the Doctor of Nursing Practice program prepares students for organizational and systems leadership and knowledge and skills critical to role development in independent and inter and intra-disciplinary practice. Content includes communication, conflict resolution, collaboration and negotiation, leadership, and team functioning to maximize success in the establishment of safe, effective patient-centered care in complex environments.

NUR738 Scholarly Project Development
Hours 3
This required course is designed to assist the student in selecting an area of interest within a practice specialization, and in demonstrating professional competencies related to an area of interest. The student will document previously acquired abilities and competencies in a professional portfolio. Students will participate in the seminar to obtain guidance, be involved in discussion, and receive peer suggestions about the portfolio and practice plans.
NUR739 Scholarly Practice Project
Hours 1-7
This required course is the capstone clinical course in all advanced practice tracks. The student presents evidence of achievements and competencies in a professional portfolio. The practice residency is completed in a specialty area of the student's choice. One credit hour of each semester of the residency is devoted to classroom seminar. The seminar focuses on the aspects of the final practice project and interventions that promote health, prevent illness and disability, and alleviate health disparities. Small group sessions are formed for students who are at similar stages of completion of the course requirements. The final project is selected and planned by the student and the advisor and is implemented during this course. The student completes the project, evaluates the outcomes, disseminates the findings, and makes a formal scholarly presentation to faculty and peers.

NUR740 Health Policy & Politics: Implications in Health Care
Hours 3
This required course in the Doctor of Nursing Practice program focuses on the basic principles of health policy and the influence of the political process as a systematic approach to health care in the United States and internationally. The course prepares students to assume complex leadership roles in order to advance specialty practice and health. This course focuses on the unique challenges of engaging and influencing health care policy in the U.S. and internationally. It is designed to develop skills, techniques, and approaches to the critical analysis of health policy proposals, health policies, and related issues from the perspective of consumers, nursing, other health professions, and other stakeholders in policy and public forums. The health policy framework is analyzed from a governmental, institutional, and organizational perspective.

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 729

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 identification and 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 701 NUR 729
Prerequisite(s) with concurrency: NUR 742

NUR744 Curriculum and Evaluation Concepts
Hours 3
This course focuses on concepts important to nursing program curriculum development and evaluation. The course will introduce the learner to various curriculum-related concepts including higher education organizational structure, published curriculum guidelines, policy development and adoption, and accreditation. This course will also focus on evidence-based methods for program, course, and student evaluation.
Prerequisite(s): Students must be participants in the Nurse Faculty Loan Program

NUR745 Teaching Strategies for Clinical Learning
Hours 3
This course will assist the graduate nursing student to examine teaching theory and strategies which may be applied to clinical instruction and problem solving. Course content will include basic principles of adult learning, and learning preferences as applied to teaching multigenerational learners. Strategies useful for clinical supervision and the importance of development of clinical learning sites are identified. The necessity of crafting clinical assignments in order to promote optimal learner outcomes is presented. Illustration of multiple uses of clinical simulation in order to improve team building, interdisciplinary collaboration, and clinical reasoning are depicted. The use of debriefing models to enhance clinical judgement in both simulation and clinical practice will be examined. Resources and technology for clinical teaching will be evaluated.
Prerequisite(s): Students must be participants in the Nurse Faculty Loan Program

NUR795 DNP Project Seminar
Hours 1
This required course is designed to assist the student to develop professional competencies related to the DNP project. Students participating in the seminar will obtain guidance, be involved in discussion, and receive peer suggestions about the DNP project. Funding opportunities will be explored, presentation preparation will be initiated, and project dissemination will be reviewed. The student will start the development and design of the professional portfolio with current professional information and achievements.
Prerequisite(s): NUR 701, NUR 729, NUR 742, NUR 743

NUR796 DNP Project Immersion I
Hours 3
This required course is the first clinical course in the Doctor of Nursing Practice course of study. The practice residency is conducted in a specialty area of the student’s choice and guided by the DNP Essentials. Students will participate in weekly online group discussions regarding their progress providing peer feedback. An organizational needs assessment is conducted while the final project is selected and planned by the student and the Faculty Advisor. IRB training and preparation is completed. The final project proposal is completed and approved by the Faculty Advisor in this course.
Prerequisite(s): NUR 701, NUR 729, NUR 742, NUR 743 A clinical facility contract and clinical advisor must be approved and in place prior to enrollment in this course.
NUR797 DNP Project Immersion II
Hours 3
This required course is the continuation of the clinical courses in the Doctor of Nursing Practice course of study. The practice residency is conducted in a specialty area of the student’s choice and guided by the DNP Essentials. Students will participate in weekly online group discussions regarding their progress providing peer feedback. The DNP Project will be submitted for IRB review and revised until accepted by all required IRB entities. The DNP project will be implemented and evaluated by the student, with guidance from the Faculty Advisor.
Prerequisite(s): NUR 700, NUR 701, NUR 729, NUR 731, NUR 742, NUR 743, NUR 795, NUR 796 A clinical facility contract and clinical advisor must be approved and in place prior to enrollment in this course.
Prerequisite(s) with concurrency: NUR 795

NUR798 DNP Project Immersion III
Hours 3
This required course is the culmination of the clinical courses in the Doctor of Nursing Practice course of study. The practice residency is conducted in a specialty area of the student’s choice and guided by the DNP Essentials. Students will participate in weekly online group discussions regarding their progress providing peer feedback. The final project is evaluated, analyzed, and disseminated by the student with Faculty and Clinical Advisor guidance in the form of a professional presentation. The final DNP Project report is completed and approved by the Faculty Advisor. Students are strongly encouraged to submit a completed manuscript for publication based on the DNP Project in collaboration with the Faculty Advisor when deemed ready by the Faculty Advisor.
Prerequisite(s): NUR 701, NUR 729, NUR 742, NUR 743, NUR 795, NUR 796, NUR 797

NUS741 BSN-PhD Research Seminar I
UAH
Hours 1
The purpose of this course is to prepare BSN-PHD students with the foundational skills of deep reading, comprehensive literature review and critique, critical thinking, and writing skills necessary for successful advancement in a doctoral program. This course will further help students by providing more individualized support and structure to facilitate successful progression through the PhD program.
Prerequisite(s): Admission to the Graduate Program
UA-Huntsville Course

NUS742 BSN-PhD Research Seminar II
Hours 1
The purpose of this course is to aid BSN-PHD students in developing skills to assess scientific rigor, develop an argument, critique published research, professionally present (verbally and written) critique findings, develop a manuscript for publication, and will provide an opportunity to obtain hands on research experience. This course will further help students by providing more individualized support and structure to facilitate successful progression through the PhD program.
Prerequisite(s): Admission to the Graduate Program

NUS743 BSN-PhD Research Seminar III
UAH
Hours 1
The purpose of this course is to prepare BSN-PHD students with the foundational skills of systematically appraising the literature to develop an appropriate and comprehensive significance section, analyzing health policy that directly relates to the students’ research areas of interest, and evaluating research methodology and accompanying statistical analyses. These are important for successful advancement in a doctoral program. This course will further help students by providing more individualized support and structure to facilitate successful progression through the PhD program.
Prerequisite(s): Admission to the Graduate Program
UA-Huntsville Course

NUS750 Philosophy of Science
UAH
Hours 3
The purpose of this course is to explore the evolution of philosophy and science. Epistemology, knowledge generation, knowledge acquisition, and ways of knowing will be examined. Scientific inquiry will include reasoning, logic, and persuasive argument development.
Prerequisite(s): Admission to the Program
UA-Huntsville Course

NUS752 Informatics
Hours 3
The purpose of this course is to prepare nurse scientists to use informatics, electronic tools, and healthcare technologies for the purposes of nursing research. The course will focus on the use of informatics in the data management of individuals, groups, and organizations as the nurse scientist plans and executes a program of research.
Prerequisite(s): Admission in the Joint Nursing Science PhD Program

NUS754 Ethical Conduct and Legal Issues in Research
Hours 3
The purpose of this course is to introduce the student to doctoral scholarship in support of beginning a program of responsible conduct of research. This course explores current ethical and legal issues in the science of nursing research. The course will delve into best practices in research design with regard to ethics, authorship, data management and record keeping, intellectual property and ownership of data, and human subjects research. In addition, the course will cover conflicts of interest, mentoring, collaborations, peer review, research misconduct, and current ethical issues in research.
Prerequisite(s): Admission to the Joint Nursing Science PhD Program
NUS756 Application of Theoretical Models

Hours 3

The purpose of this course is to provide students a foundation for contributing to theory development processes, analyzing and critiquing theoretical foundations of research, and applying theoretical models to nursing research. This course addresses the relationship between theory and research and provides an understanding of the use of theoretical models and conceptual foundations to guide nursing research and practice.

Prerequisite(s): NUS 750

UA-Huntsville Course

NUS758 Quantitative Research Methods and Designs

Hours 3

The purpose of this course is to provide students with foundational knowledge and skills in the development of experimental and nonexperimental quantitative designs. Topics will include training in the choice of research questions/aims/hypotheses and a responsive approach; the development of an ethical, strategic design; the implementation of a strategic sampling plan; the choice of suitable measurements (reliable and valid) and analytic plans; issues in research such as treatment fidelity; and the drafting of research proposals. Additional content will briefly introduce more advanced concepts such as mixed methods research or community-based participatory research. Special emphasis will be placed on clinical nursing designs, such as repeated-measures intervention studies.

Prerequisite(s): NUS 750

NUS760 Statistics I

Hours 3

The purpose of this course is to provide the student with the skills to conduct and interpret statistical data. Emphasis will be place on describing types of variables, testing hypotheses, selecting appropriate parametric and nonparametric statistical tests, analyzing data, and interpreting results.

Prerequisite(s): NUS 758

UA-Huntsville Course

NUS762 Healthcare Policy for Rural and Medically Underserved Populations

Hours 3

The purpose of this course is to explore the policy environment that influences and shapes public health and health care service delivery, including rural and medically underserved communities. Students will develop skills, techniques, and approaches to identify gaps, critically analyze and research health related issues. Utilization and delivery of data to promote and impact healthcare policy changes will be an important measure of outcome. Students will develop the ability and confidence to critically assess current health policy issues in a thoughtful, comprehensive and rigorous manner and to engage in the policy process.

Prerequisite(s): Admission to the Joint Nursing Science PhD Program

NUS764 Scientific Writing

Hours 3

The purpose of this course is to develop writing skills to produce scientific writing that is clear, concise and logical. This course will also explore the publication to include abstract and manuscript development and the submission process. Additional pathways to dissemination of nursing content will be explored as well.

Prerequisite(s): Admission to the Joint Nursing Science PhD program

UA-Huntsville Course

NUS766 Epidemiology

Hours 3

The purpose of this course is to introduce epidemiological methods for measuring population health, designing and implementing observational and experimental studies, critically reading the public health literature, and applying research findings to global and community health.

Prerequisite(s): NUS 760

NUS768 Statistics II

Hours 3

The purpose of this course is to provide advanced coursework in applied statistical approaches to data management and analysis with an emphasis on multivariate statistical approaches. Students will develop improved skills in conceptualizing, executing, analyzing, and interpreting advanced analytic strategies and to enhance their ability to propose strong, tailored analytic approaches for specific study designs and research aims. Students will gain proficiency in using statistical software to enhance their knowledge of regression, ANCOVA, MANOVA/MANCOVA, discriminant analysis, exploratory and confirmatory factor analysis, structural equation modeling, multilevel modeling, and advanced categorical approaches. Emphasis will be placed on the understanding of the mathematics, logic, and application of these techniques.

Prerequisite(s): NUS 760

NUS770 Grant Writing

Hours 3

The purpose of this course is to prepare students in the foundations of writing grants for federal external funding. This course will help students identify a step-wise process to develop a grant proposal through federal funding sources. Strategies for successful grant writing include identifying funding sources for the topic, writing a competitive grant application, developing a collaborative team of researchers for the project, and understanding the review process.

Prerequisite(s): NUS 764

NUS772 Qualitative Research Methods

Hours 3

The purpose of this course is to assist the student in using selected qualitative research methods. Learning modules will explore qualitative approaches, sampling, data collection, data analysis and dissemination. The course will review and explore the use of technology to assist the qualitative researcher.

Prerequisite(s): NUS 750, NUS 756, NUS 758

UA-Huntsville Course
NUS776 Advanced Research Methods

UAH

Hours 3

The purpose of this course is to assist students in developing the knowledge and skills to design a mixed methods research (MMR) study. MMR is an advanced method for collecting, analyzing, and “mixing” both quantitative and qualitative data within a single study, to understand a research problem more completely.

Prerequisite(s): NUS 752, NUS 758, NUS 760, NUS 768, NUS 772

UA-Huntsville Course

NUS780 Introduction to Omics

UAH

Hours 3

The purpose of this course is to introduce the revolution of omics and discuss the role nurse scientists can play in precision health development. Nurse scientists are in a position to provide a unique contribution to person-centered health approaches by broadening their understanding of molecular advances to improve health outcomes. A variety of different omics will be explored and the practical advantages, limitations, and challenges in individualized health promotion will be discussed.

Prerequisite(s): Admission in the Joint Nursing Science PhD program

UA-Huntsville Course

NUS781 Omics in Nursing Research

Hours 3

The purpose of this course is to provide an overview of advanced concepts of omics research by utilizing a biobehavioral systems approach in nursing science. The National Institute of Nursing Research’s strategic plan for Genomic Nursing Science is used as the framework for integrating omics and nursing research. Practical application in omics theories, methodologies, technology, bioinformatics, and responsible conduct of research is discussed. Additionally, resources in building capacity for the next generation of omics scientists are reviewed.

Prerequisite(s): NUS 780

NUS782 Curriculum Development and Program Evaluation for Nurse Educators

UAH

Hours 3

The purpose of this course is to examine the procedures for designing, implementing, and evaluating nursing education curriculum. The process will be examined beginning with the program mission. Educational theories, philosophy, concepts, and program evaluation will be explored. The nurse educator’s role in curriculum design and program evaluation is assessed.

Prerequisite(s): Admission in the PhD program

UA-Huntsville Course

NUS783 Instructional Methods and Assessments in Nursing Education

Hours 3

The purpose of this course is to discover teaching styles and implement instructional technologies to promote learning in diverse populations of students. Throughout the semester, students will explore didactic and clinical learning activities and evaluation strategies to demonstrate transfer of learning.

Prerequisite(s): NUS 782

NUS784 Data Science and Emerging Technologies in Healthcare

Hours 3

The purpose of this course is to apply concepts associated with data analytic methods and the use of burgeoning technologies in healthcare. The course prepares the nurse scientist to engage with other researchers in the areas of data analytics, simulation, telehealth, and robotics. The appropriate integration of health care technologies to support nursing research will be emphasized.

Prerequisite(s): Admission to Joint Nursing Science PhD Program

NUS785 Research and Development (R&D) of Innovative Health Care Technology

UAH

Hours 3

The purpose of this course is to develop the scientific skills to move an idea from concept to product following a research and development (R&D) process. The course prepares the nurse scientist to engage with researchers inside and outside health care fields, solicit input from end-users early and often, create patentable intellectual property, and fund the development of products with federal grants or investors.

Prerequisite(s): NUS 784 or permission from professor

UA-Huntsville Course

NUS799 Dissertation Hours

Hours 1-12

The purpose of this course is initiation, continuation, or completion of the dissertation for the Doctor of Philosophy (PhD) in Nursing Science degree. This course must be repeated each semester consecutively up to 24 credit hours until successful defense of the dissertation.

Prerequisite(s): Successful completion of 45 hours of NUS courses

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
UH

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.

Prerequisite(s): None. This is an introductory course open to all University Honors Program students. This course will fulfill the Introduction to the Fields of Social Work Practice requirement for social work majors and for social welfare minors.

University Honors

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 assists students with acquiring and improving professional writing skills. Students in this class will practice writing skills necessary for serving clients in a variety of practice settings. These skills include drafting client-centered case documentation, writing goals and objectives, using technology to find evidence that informs service delivery, and advocating for clients in writing.

SW320 Volunteerism in Human Services Systems

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.

SW351 Oppression & Social 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 welfare and to the profession of social work. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

SW355 Honors Oppression & Social 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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): At least sophomore standing or permission of the instructor. This is a 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 205. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the 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 Honors Social Welfare Policy and Services

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. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): Completion of SW 200 or 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 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, or 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 Behavior and the Social Environment II

Hours 3

A continuation of SW 410.

Prerequisite(s): SW 410 with a C- or better.
SW414 Chemical Dependency  
Hours 3
Drug and alcohol use and abuse are deeply interwoven 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.

SW415 Psychopathology  
Hours 3
This course presents information concerning criteria used in assessing mental disorders from infancy through older adulthood. It also provides information about the prevalence and etiology of psychiatric disorders. The impact of mental disorders on clients, their families, and communities is discussed; and students are provided with a brief overview of intervention including the use of psychopharmacology. The course also provides students tools by which they learn to recognize the risk of error within the assessment process, and learn to recognize the potential for bias that can result when assessment tools are inaccurately applied across cultural, ethnic, racial, and other groups.
Prerequisite(s): PY 101 or PY 105 with a grade of a C- or better.
Prerequisite(s) with concurrency: SW 410

SW419 International Social Work  
Hours 3
For students interested in international issues of social welfare and social justice, the course introduces international social work. The course is open to Social Work students as well students from other disciplines. The purpose of this class is to expose students to a wide range of internationally focused issues regarding human well-being and human rights along with contemporary debate on those issues. In this class, students will gain a deeper understanding of international social work and social development issues including global health development, governmental and non-governmental development agencies, role of social work in development, environmental politics, empowerment versus handout, along with resource sharing issues associated with poverty, world hunger, land use, and costs of globalization.
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 professional program; completion with a C- or better of 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, or ST 260.

University Honors

SW440 Social Work Practice with Individuals and Families  
W  
Hours 1-3
Social Work 440 is the first in a sequence of four practice courses required for the BSW degree. The sequence is designed to prepare students for generalist practice. The course focuses on practice with individuals and families. The course emphasizes professional relationships that are characterized by mutuality, collaboration and respect for clients. The course addresses development of self-awareness, identification of personal values, and the potential for ethical dilemmas resulting from conflicting values. The content is intended to develop the knowledge and skills needed to enable individuals and families to reach their potential through a problem-solving approach. Issues of aging, poverty, sexism, racism, and heterosexism are addressed in each unit of study. This course has the University Core Curriculum 'W' designation. Writing proficiency 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 will not earn a passing grade, no matter how well the student performs in other areas of the course. Online sections of this course require concurrent enrollment in SW 440 skills lab.
Prerequisite(s): Admission to BSW Professional Program, Completion with a C- or better of 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 1-3
This is a required course in the practice area of the undergraduate social work program. It is designed to provide fundamental knowledge of and skills for generalist social work practice with groups. It is consistent with generalist practice in its use of a problem-solving approach. The generalist social worker must have the ability to assess problems, plan and implement appropriate multi-method intervention with client systems of various sizes and types. The course gives attention to the range of group affiliations, life events and life transitions and their potential impact on various sized systems. It emphasizes the values and ethics of the social work profession, including respect for the positive value of diversity. The knowledge and skills gained in the course should enable the student to be an effective member and leader of groups. Online sections of this course require concurrent enrollment in SW 441 skills lab.
Prerequisite(s): Admission to BSW Professional Program, Completion with a C- or better of 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 and Organizations
Hours 1-3
This course is one of three required social work practice courses offered in the professional foundation year of the BSW program. It is designed to help students understand generalist social work practice in and with communities and organizations. SW 442 introduces students to selected macro practice models that emphasize client strengths, empowerment, and resident-driven approaches to engagement, assessment and intervention at the community and organizational levels. The practice models selected for this course explicitly address poverty, inequality and social injustice, give attention to an appreciation of human diversity, and respect for the dignity and worth of the individual. Online sections of this course require concurrent enrollment in SW 442 skills lab.
Prerequisite(s): Admission to BSW Professional Program, Completion with a C- or better of 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 1-3
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 completion with a C- or better of SW 100 or SW 105, SW 101, 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 or 405, SW 410, SW 411, SW 440, SW 441, SW 442 and SW 444.
Prerequisite(s) with concurrency: SW 490, SW 420, SW 425

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. Successful completion of this course requires a grade of C- or higher.
Prerequisite(s): Admission to the Professional Program
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 and completion with a C- or better of SW 100 or SW 105, SW 101, 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 or 405, SW 410, SW 411, SW 440, SW 441, SW 442 and 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): Admission to BSW Professional Program and completion with a C- or better: SW 100 or SW 105, SW 101, SW 200 or SW 205, SW 351 or SW 355, SW 401 or SW 405, SW 410, SW 411, SW 440, SW 441, SW 442, and SW 444.
Prerequisite(s) with concurrency: SW 443 or SW 445 and SW 420 or SW 425
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.

SW500 Social Welfare Policy
Hours 3
Overview of the evolution of social welfare policies and services, and of how social problems affect societal groups. Includes examination of the tools and approaches that social workers might use in analysis and policy formulation.

SW506 Planning and Program Development
Hours 3
Application and analysis of theory applicable to the field of planning and developing social services and programs.

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.

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 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 I-A  
Hours 1  
The first of two integrative seminars designed to prepare students for generalist social work practice. This seminar provides students structured learning opportunities that emphasize the integration of knowledge acquired in foundation courses; expand knowledge beyond the scope of their practicum setting; and examine the values and ethics of social work practice. The seminar also serves as an additional opportunity to examine evidence-based models of social work practice and selected social work practice theories and to improve upon social work practice skills and relationships characterized by collaboration and respect for the client system. Students will examine how their agency serves persons who are subject to discrimination, economic deprivation, and oppression, including women, elderly persons, people of color, and gay and lesbian persons. Students will explore how their agency prepares them to work competently with diverse populations. This course will focus on the Life Course Perspective when dealing with clients.  
Prerequisite(s): SW 511 and SW 540  
Prerequisite(s) with concurrency: SW 590

SW535 Integrative Seminar I-B  
Hours 1  
The second of two integrative seminars designed to prepare students for generalist social work practice. This seminar provides students structured learning opportunities that emphasize the integration of knowledge acquired in foundation courses; expand knowledge beyond the scope of their practicum setting; and examine the values and ethics of social work practice. The seminar also serves as an additional opportunity to examine evidence-based models of social work practice and selected social work practice theories and to improve upon social work practice skills and relationships characterized by collaboration and respect for the client system. Students will examine how their agency serves persons who are subject to discrimination, economic deprivation, and oppression, including women, elderly persons, people of color, and gay and lesbian persons. Students will explore how their agency prepares them to work competently with diverse populations. This course will focus on the Life Course Perspective when dealing with clients.  
Prerequisite(s): (A co-requisite with SW 591)

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  
The course provides a framework for systematic study of components and issues involved in the practice of social work with groups.  
Prerequisite(s): SW 500, SW 510, SW 540, SW 534, SW 590  
Prerequisite(s) with concurrency: SW 542, SW 570, SW 591, SW 535

SW541 Social Work 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): SW 500, SW 510, SW 540, SW 534, SW 590  
Prerequisite(s) with concurrency: SW 542, SW 570, SW 591, SW 535

SW542 Social Work Practice with Communities and Organizations  
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 511 and SW 540
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 1-3
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 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 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.
Prerequisite(s): SW 510 OR
Prerequisite(s) with concurrency: SW 578

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 evidence-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

SW590 Field Education I-A
Hours 1-9
The first of two foundational practica designed to prepare students for generalist social work practice. Building on a liberal arts background, Field Education IA offers students supervised opportunities to apply knowledge, skills, and values learned in foundation social work practice, social welfare policy, human behavior in the social environment, and social work research classes. Students will have an opportunity to work in agencies that provide services to diverse populations using individual, family, group, and community interventions.
Prerequisite(s) with concurrency: SW 511 and SW 540

SW591 Field Education I-B
Hours 1-9
The second of two foundational practica designed to prepare students for generalist social work practice. Building on a liberal arts background, Field Education IB offers students supervised opportunities to apply knowledge, skills, and values learned in foundation social work practice, social welfare policy, human behavior in the social environment, and social work research classes. Students will have an opportunity to work in agencies that provide services to diverse populations using individual, family, group, and community interventions.
Prerequisite(s): SW 534, SW 590 (co-requisite with SW 535)
SW595 Field Education II-A
Hours 1-9

The first of two concentration practica designed to prepare students for advanced practice. This specialization course provides the student the opportunity to integrate through direct experience in an educationally supervised environment the knowledge, values, and skills that are necessary for social work practice.

Prerequisite(s): Set 1 (60 hour) SW 500, and SW 511, and SW 510, and SW 534, and SW 535, and SW 570, and SW 540, and SW 541, and SW 542 and SW 590, and SW 591 -OR- Set 2 (Advanced) SW 570, and SW 577, and SW 578, and SW 579

Prerequisite(s) with concurrency: (SW 532 AND SW 533) Or (SW 564 AND SW 565)

SW596 Field Education II-B
Hours 1-9

The second of two concentration practica designed to prepare students for advanced practice. This specialization course provides the student the opportunity to integrate through direct experience in an educationally supervised environment the knowledge, values, and skills that are necessary for social work practice.

Prerequisite(s): Set 1 (SW 532 AND SW 533) OR (SW 564 AND SW 565) and SW 500 and SW 510 and SW 540 and SW 541 and SW 570 and SW 542 and SW 511 and SW 534 and SW 535 and SW 590 and SW 591 OR Set 2 (Advanced) (SW 532 and SW 533) OR (SW 564 and SW 565) and SW 570 and SW 577 and SW 578 and SW 579

Prerequisite(s) with concurrency: SW 501, 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.

SW624 Qualitative Data Analysis
Hours 3

This course provides an opportunity for students to focus on developing skills and techniques related to qualitative data analysis. Methods of coding, processes of data analysis, including description, but very much going beyond simple description, will be covered. The course will emphasize analytic strategies useful across research approaches, focusing on the fundamentals of qualitative analysis across the various types of data collected using various qualitative approaches. Data management, data display, and writing up qualitative data analysis results along with dissemination strategies will be included. The course will demonstrate at least one computer assisted data analysis program.

Prerequisite(s): SW 620 and SW 621 and SW 640

Prerequisite(s) with concurrency: SW 623

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.
SW627 Systematic Review
Hours 3
This doctoral seminar introduces students to the purpose and process of systematic review of research. Students will develop advanced skills for the analysis and synthesis of published research. Skills include the use of electronic databases and other strategies for locating relevant research, the ability to appraise the quality of evidence, and strategies for summarizing and synthesizing existing research. Such skills are essential for summarizing the state of research on specific topics of concern for social work practitioners, researchers and policy-makers, including descriptions of populations and the effectiveness of social work interventions.
Prerequisite(s): Admission to Social Work Ph.D. program 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 Methd
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.

SW641 Applying Theory in the Development of Social Work Knowledge
Hours 3
This course provides the basic knowledge and skills to prepare students to understand the relative place and contribution of theoretical conceptualization to the development of knowledge for social work practice. This course builds on knowledge gained in SW 640: Conceptual Foundations of Social Work Practice and Research, and SW 620: Social Work Research Methods I.
Prerequisite(s): SW 620 and SW 640 or instructor permission

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

SW700 Advanced Theories on Oppression and Disparities
Hours 3
This course will provide an in-depth exploration of ideological, institutional, interpersonal and internal contexts of oppression, discrimination, and disparities at the macro, mezzo, and micro levels. Students will learn a number of theoretical frameworks related to privilege and oppression, including critical race theory, feminist theory, Marxism, queer theory, and health behavior theories. Students will also learn approaches to assessing institutions and policies using these theories as an analytical lens and will also learn techniques for developing new policies, programs, and interventions using these theories to promote social justice in health and human service delivery for populations that are diverse in race, ethnicity, gender, sexual orientation, and other characteristics.
Prerequisite(s): Formal acceptance into the DSW program.

SW701 Research for Clinical and Community Practice I
Hours 3
This doctoral-level course introduces students to the principles, methods, and analytical techniques associated with qualitative, quantitative, and mixed methods social work research. The course allows for the development of critical thinking skills by gaining an understanding of scientific, analytical, and ethical approaches utilized when conducting research for clinical and community social work practice. Students’ mastery of course content prepares them to develop, use, and effectively communicate empirically-based social work research knowledge.
SW702 Research for Clinical and Community Practice II
Hours 3
This course builds upon the basic principles and methodologies of social work research learned in the introductory research course and prepares students to: (1) systematically evaluate a body of research related to a specific social work topic; and (2) to conceptualize how existing research findings should be used to inform social work practice in clinical and organizational settings. Students will learn how to critique methodologies used in qualitative and quantitative social work research, with an emphasis on assessing how methodological approaches may affect the quality of research findings and how methodologies promote or constrain ethical principles in research. Students will also learn how to interpret findings from existing studies. The goal of this course is not to prepare students for future careers in research, but to provide them with advanced knowledge and skills needed to appropriately incorporate evidence into practice and to evaluate interventions in practice-based settings.
Prerequisite(s): SW 701

SW703 Neuroscience in Clinical Practice
Hours 3
This course provides students with a basic understanding of the dynamic and inextricable interaction of the brain, mind, and body with the environment. Students will also learn about the implications of this interaction on health, development, and learning. To advance clinical practice, the course will also focus on the role that neuropsychology in the treatment of clinical disorders across the lifespan.
Prerequisite(s): SW 702

SW704 Organizational Leadership Theory and Practice
Hours 3
This doctoral seminar explores fundamental aspects of organizations and organization theory, as they pertain to the non-profit and public sectors. Students will gain an in-depth knowledge on leadership and organizational theories while also developing a skillset for applying innovative leadership techniques within real-world settings. The course will also provide a foundation for students to gain several competencies in human service management, including: Executive Leadership, Resource Management, Strategic Management, and Community Collaboration. Students will learn how perspectives of organizations and leadership have evolved throughout history as well as the current social, political, cultural, and economic contexts within which non-profit and public sector organizations operate. Ethical, practical, and legal considerations of providing health and human services will be examined. Throughout the semester, students will explore their own approaches and application of leadership theory and skills at the personal, group, organizational, and community levels.
Prerequisite(s): SW 702

SW705 Advanced Advocacy and Policy Practice
Hours 3
Globalization, social media, and changes in social and political landscapes have all shaped how people approach advocacy strategies. This course will present historical theoretical foundations and current critical issues related to client, community, and policy advocacy, as well as the importance of thorough evaluations of policy in order to develop effective advocacy strategies. In addition to exploring advanced approaches to policy advocacy with public policymakers, the course will also present strategies used of developing social movements and methods for developing advocacy leadership within organizational settings. The course will examine and evaluate historical and current practices in advocacy for social justice, as well as contemporary social movements. The course will also examine and apply theoretical frameworks for communicating about policy advocacy with a variety of stakeholders.
Prerequisite(s): Formal acceptance into the DSW program.

SW706 Teaching Social Work Practice
Hours 3
This course is designed to prepare students for the role of social work educator in social work education programs. Students will develop essential concepts and strategies related to curriculum design, course delivery and evaluation. This course provides a theoretical background to enable the student to better understand the teaching task in social work education and issues in the broader context of higher education including issues of equality, sustainability and students’ rights, as well as laws, policies and regulations governing universities and professional social work education.
Prerequisite(s): Formal acceptance into the DSW program.

SW720 Clinical Supervision and Ethics
Hours 3
This course will present models of effective clinical social work supervision that are reflective of the policies of multiple professional and accrediting bodies, including: the Association of Social Work Boards, the National Association of Social Workers, and the Alabama State Board of Social Work Examiners. Further, this course will provide detailed analysis of the NASW Code of Ethics (2017 revision), including case examples. Students will examine specific ethical issues related to clinical supervision and will consider myriad solutions to ethical dilemmas from the perspectives of different ethical theories (in particular, deontological ethics, utilitarianism, and virtue ethics). Students will consider ethical issues in light of the current political climate and with respect to disparate personal ethical and moral positions that may be held by supervisors, supervisees, and clients.
Prerequisite(s): SW 700 and SW 701
SW721 Cognitive Behavioral Therapy
Hours 3
This course focuses on the empirically validated treatment approach, Cognitive Behavioral Therapy (CBT) and related therapeutic techniques, such as motivational interviewing (MI) and Dialectic Behavioral Therapy (DBT). It covers the theory, concepts, and advanced techniques of therapy with a particular emphasis on intervention methods that may be used by social workers to assist clients with specific problems or conditions. Students will also learn therapeutic techniques that may be used in specific social work settings (domestic violence, parenting, medical social work, etc.) as well as with clients across the lifespan. The course content reflects advanced material of current relevance for effective clinical social work practice.
Prerequisite(s): SW 700 and SW 701

SW722 Assessment and Diagnosis in Evidence-Based Clinical Practice
Hours 3
This course will provide students with the practical contexts of mental health disorders, the development of mental health classification systems, and advanced assessment/diagnostic techniques. Students will learn about evidence-based practice (EBP) as applied to: (a) complex clinical diagnoses; (b) utility and consequences of diagnoses, especially in regards to diverse and oppressed populations; and (c) differential diagnosis. The course will emphasize ecobiopsychosocial and person-in-environment perspectives in identifying and evaluating diagnostic and assessment tools. The course will provide historical and critical overviews of mental disorders and the development of classification systems, such as the DSM-5 and ICD-10. Students will learn how to apply and tailor multiple assessment and diagnostic methods across diverse populations and client systems. Students will learn to evaluate and apply research to support diagnostic and assessment practices.
Prerequisite(s): SW 703

SW723 Complementary & Alternative Therapies
Hours 3
This course is designed to introduce students to the philosophies, practitioners, techniques, uses, current paradigm and evidence of efficacy in the complementary and alternative therapies currently being used in the United States. Evidence to guide practice will derive from a variety of sources including case studies, clinical trials, observational studies and meta-analyses. The use of different types of evidence to demonstrate efficacy versus effectiveness will be distinguished and examined. A comparison of the relative strengths and weaknesses of the various forms of data will also be incorporated. A large growing percentage of Americans use complementary and alternative therapies for prevention purposes, as a supplement to conventional care or as the primary source of mental health wellness. How complementary & alternative therapies can be integrated into conventional care plans requires an ability to understand and communicate their efficacy and effectiveness with other health care providers and consumers. New and emerging approaches to generate evidence that these therapies may enhance consumers’ health, functioning, safety and optimize a health care plan will be explored in depth.
Prerequisite(s): Formal acceptance into the DSW program.

SW724 Social Work and Emotional Trauma
Hours 3
This course builds upon prior course content provided through the core curriculum and prepares advanced-practiced social workers to work with clients who have experienced emotional trauma. Beginning with the necessity for self-care for those working with people who have experienced trauma, it covers the physiological underpinnings of how trauma affects people, and provides basic information about working with clients across the life-span. The course addresses the various contexts of practice, including micro-, mezzo-, and macro practice contexts, with a sensitivity to ethical issues and issues of diversity and difference.
Prerequisite(s): Formal acceptance into the DSW program.

SW730 Leadership and Organizational Change
Hours 3
In order to deliver relevant social services efficiently and effectively, social work administrators need knowledge about leadership and management of non-profit organizations. Leaders create a vision for their organization, establish a constructive climate, and overcome obstacles. Grounded in leadership theory, this course will provide opportunity for personal reflection, organizational examination, and opportunity for suggested change. Ways to deliver services mindful of ethical dilemmas, diversity, and inclusion will be highlighted.
Prerequisite(s): SW 700 and SW 701

SW731 Leadership in Human Service Development
Hours 3
This course will build on content from the core coursework in the DSW curriculum to present more advanced concepts and skills in designing, implementing, and evaluating new human service programs. Students will learn: (a) executive management skills related to environmental and organizational assessments needed in the design and development stage of human services; (b) resource management skills for developing and managing human services; (c) strategic management skills for successful implementation of services; and (d) community collaboration skills needed to transform and advance human service delivery. Students will hone their written and interpersonal communication skills for human service management. Students will also build upon their foundational knowledge about research methodologies to develop human service evaluations that are relevant to the management process and rigorous.
Prerequisite(s): SW 700 and SW 701
This course will provide an in-depth exploration of ethical codes and principles established by the NASW, International Federation of Social Work (IFSW), and other theoretical frameworks as they relate to ethical concerns of social workers in the role of community and organizational leaders. Students will develop an advanced understanding on how current social, political, cultural, and other contexts influence ethical issues in health and human services, as well as how understandings of ethics have changed over time. There will be specific emphasis on The NASW Code of Ethics sets forth values, principles and standards to which social workers and social work students should aspire and their actions judged. Students will learn how ethics guides the decision-making and conduct of social workers in leadership roles regardless of the workplace, employees, clientele, or communities where their organizations operate. Throughout the semester, students will discuss ethical case dilemmas related to social, economic, political, cultural and professional issues faced by community and organizational leaders.

Prerequisite(s): SW 704

This is a course that provide theoretical concepts and techniques in the financial management and budgeting of public and nonprofit organizations. The content will emphasize budget and finance considerations in making decisions about health and human services, as well as the common problems associated with finances in the public and nonprofit sectors. The course will include online lecture, problem-based learning exercise, and synchronous and asynchronous discussions. The goal of the course is to help practitioners become better managers and decision makers about public and nonprofit service delivery, rather than budget officers or accountants.

Prerequisite(s): Formal acceptance into the DSW program.

This course will present current best practices of effective human resource (HR) management in the healthcare, public (government), and nonprofit social sector settings, with emphasis on those models that are endorsed by the Society of Human Resource Management, Society for Social Work Leadership in Health Care, and the National Council of Nonprofits; further, this course will provide frameworks for ethical HR policy development and implementation within healthcare, public, and nonprofit settings that are in accordance with applicable federal employment laws and guidelines. Students will learn the major legal requirements of HR in the designated settings. Topics include employee selection, employee training and development, employee performance evaluation and management, compensation models, diversity, employee well-being, and collective bargaining.

Prerequisite(s): Formal acceptance into the DSW program.

This course represents the first of two courses that will prepare you for completing the Doctor of Social Work Capstone Project. In this course, you will gain knowledge and skills in developing a practice change project and evaluation proposal. Specifically, you will learn: (a) the common content and organization of grant and research proposals; (b) how to identify peer-review scholarship, grey literature, and human service data needed to develop a strong project or research proposal; skills in proposal writing; and skills in program and project planning. By the end of this course, you will have developed a roadmap, plan, and timeline for developing the proposal for the Capstone Project, which will be completed in the second course, SW751: Capstone Prep Independent Study Proposal.

Prerequisite(s): SW 701

This independent practice doctorate course provides students with guided instruction and mentoring from their faculty advisor as they complete their Comprehensive Paper and receive approval to move forward with their Capstone Project. Material covered will be of an advanced nature aimed at providing doctoral students with an understanding of the latest developments in the field, as well as the most recent research related to their Capstone Project topic. Discussion and advisor guidance will be focused on the following, as appropriate for the student’s project: (a) readings of research articles, (b) additional skill development and knowledge related to social work practice, and (c) development of research/evaluation methodology. Students who are not prepared to move forward with their Capstone Project at the end of the semester will have to repeat this course until their Comprehensive Paper is approved.

Prerequisite(s): SW 750 and SW 702

This independent practice doctorate project course partially fulfills the required doctoral-level Capstone Project hours toward the Doctor of Social Work (DSW) degree. A minimum of 9 hours are required. The course is conducted under the guidance of the DSW faculty advisor. After completing requirements for admission to candidacy, the student registers for a minimum of 3 hours per semester in this course, each semester, until all Capstone Project requirements have been approved. Material covered will be of an advanced nature aimed at providing doctoral students with an understanding of the latest developments in the field, as well as the most recent research related to their Capstone Project topic. Discussion and advisor guidance will be focused on the following, as appropriate for the student’s project: (a) readings of research articles, (b) additional skill development and knowledge related to social work practice, and (c) development of research/evaluation methodology. The aim of this course is to produce an original project that contributes to evidence-based social work practice.

Prerequisite(s): SW 751
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 students/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 Heritage and Values
Hours 1
‘Heritage and Values’ provides an introduction to the Air and Space Forces, allowing students to examine general aspects of the Department of the Air Force, leadership fundamentals, service benefits, and opportunities for officers. The course also lays the foundation for becoming an Air or Space professional by outlining heritage and values. This course provides a historical perspective on airpower providing students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. Students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Air or Space professional. AFS 101 Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFS120 Heritage and Values
Hours 1
‘Heritage and Values’ provides an introduction to the Air and Space Forces, allowing students to examine general aspects of the Department of the Air Force, leadership fundamentals, service benefits, and opportunities for officers. The course also lays the foundation for becoming an Air or Space professional by outlining heritage and values. This course provides a historical perspective on airpower providing students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. Students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Air or Space professional. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

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 Evolution 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.

AFS240 Evolution 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 Leadership & Communication
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 Leadership & Communication
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 & Leadership
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.

AFS480 National Security & Leadership
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.

MIL110 Leadership/National Security
Hours 1
This class is designed to be an introductory course that provides a basic understanding of the requirements and outcomes of the Reserve Officer Training Corps program. Each student will develop a sense of what to expect in the ROTC program, as well as what is important to the US Army in the early stages of leader develop. Students will learn the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership and the Army profession.

Prerequisite(s): Co-req of MIL 111

MIL111 Leadership Application I
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week.

Prerequisite(s): Co-req of MIL 110
MIL120 Foundatn Leadership Team Develm
Hours 1
This class is designed to be an introductory course that provides a basic understanding of the requirements and outcomes of the Reserve Officer Training Corps program. Each student will develop a sense of what to expect in the ROTC program, as well as what is important to the US Army in the early stages of leader develop. Students will learn the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership and the Army profession.
Prerequisite(s): Co-req of MIL 121

MIL121 Leadership Development
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week.
Prerequisite(s): Co-req of MIL 120

MIL210 Basic Leadership Skills
Hours 2
MIL 210 focuses on leadership and decision making. The outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. MIL 220 focuses on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also cover through Team Building exercises in small units up to squad level.
Prerequisite(s): Co-req of MIL 211

MIL211 Basic Leadership Development
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week.
Prerequisite(s): Co-req of MIL 210

MIL220 Military Leadership Skills
Hours 2
MIL 210 focuses on leadership and decision making. The outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. MIL 220 focuses on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also cover through Team Building exercises in small units up to squad level.
Prerequisite(s): Co-req of MIL 221

MIL221 Mil Leadership Mgt Applicn II
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week.
Prerequisite(s): Co-req of MIL 220

MIL310 Small Unit Tactical Leadership
Hours 3
The ROTC Advanced Course is designed primarily for cadets who wish to pursue a commission as a lieutenant in the U.S. Army upon graduation. To enter into the Advance Course, a student must be contracted or about to enter contract with ROTC. The Advanced Course is taken in the final two years of college and includes the Cadet Summer Training (CST) during the summer after the junior or senior year. Instruction includes advanced leadership development, organization ethics critical thinking and problem solving, administration, and tactics. Summer training at Fort Knox, Kentucky enables cadets to put into practice, in a field environment, the principles and theories acquired in the classroom and passing is a commissioning requirement.
Prerequisite(s): Co-req of MIL 311

MIL311 Small Unit Leader Appl Lab I
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week. This course is only for contracted cadets.
Prerequisite(s): Co-req of MIL 310

MIL320 Advanced Leadership Skills
Hours 3
The ROTC Advanced Course is designed primarily for cadets who wish to pursue a commission as a lieutenant in the U.S. Army upon graduation. To enter into the Advance Course, a student must be contracted or about to enter contract with ROTC. The Advanced Course is taken in the final two years of college and includes the Cadet Summer Training (CST) during the summer after the junior or senior year. Instruction includes advanced leadership development, organization ethics critical thinking and problem solving, administration, and tactics. Summer training at Fort Knox, Kentucky enables cadets to put into practice, in a field environment, the principles and theories acquired in the classroom and passing is a commissioning requirement.
Prerequisite(s): Co-req of MIL 321

MIL321 Small Unit Leader Appl Lab II
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week.
Prerequisite(s): Co-req of MIL 320
MIL335 American Military Experience
Hours 3
This course is a college-level military history course designed to develop students' awareness of the relationship of the military establishment to society, particularly in the United States. Further, the course will describe the evolution of war and the progression of military professionalism, give an awareness of the history and purpose of joint operations, discuss the role of history in understanding their profession, and encourage the viewing of American military history from both joint and combined perspectives.

MIL410 Military Science IV
Hours 3
The Army Officer. The focus of this semester is Cadet (MS IV) leadership development, critical thinking and the final preparation for commissioning as an Army Lieutenant. Cadets must be contracted to take this course.
Prerequisite(s): Co-req of MIL 411

MIL411 Adv Leadership Applicatn Lab I
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week. This course is only for contracted cadets.
Prerequisite(s): Co-req of MIL 410

MIL420 Military Science IV
Hours 3
The Army Officer. The focus of this semester is Cadet (MS IV) leadership development, critical thinking and the final preparation for commissioning as an Army Lieutenant. Cadets must be contracted to take this course.
Prerequisite(s): Co-req of MIL 421

MIL421 Adv Leadersh Applicatn Lab II
Hours 1
Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABS and participate in physical fitness training. The lab is 2 hours and the physical fitness training is 3 hours per week. This course is only for contracted cadets.
Prerequisite(s): Co-req of MIL 420

MIL493 Risk Management and Safety
Hours 1
Course prepares students to recognize risk behaviors and situations, plan safe and effective training, and reduce risks both on and off duty with a focus on awareness and prevention. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421

MIL494 Academic Mentorship Program
Hours 1
Course prepares students to design and implement an advising and mentoring program to increase retention of younger peers, focusing on organization and time management. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421

MIL496 Ethical Foundations
Hours 1
Prepares students to recognize risk behaviors and situations, plan counseling sessions, make informed referrals to assistance agencies, and improve the quality of life for employees. Offered fall, spring, and summer.
Prerequisite(s): MIL 311 and MIL 321; or MIL 411 and MIL 421

UA109 FYE Leaders: Lucy's Legacy
Hours 1
This course will explore the experiences of student leaders who identify as women of color in higher education. The course will complement the Lucy’s Legacy program for first-year women. The course curriculum is informed by the Culturally Relevant Leadership Learning Model. Students will explore their leadership identity, leadership capacity, and leadership efficacy, in addition to learning and discussing techniques to improve their leadership. Topics will include understanding oneself as leader, leadership in groups, ethical leadership, and peer-to-peer leadership.

UA110 Peer Leader 101: Learning to Teach, Teaching to Learn
Hours 1
This course will explore the role of peer education at an institution in relation to first-year student academic and social transition. The course will complement the practicum experience students will engage in as a Peer Leader, inside and outside of the classroom. Additionally, students will learn and discuss techniques to improve their leadership as a mentor and a role model, as well as best practices when working with a faculty member to supplement the instruction and facilitate course material.
Topics will include understanding the first-year student, embracing the concept of peer leadership, fostering student learning, effective communication skills, personal leadership development, and other related topics. Course enrollment limited to participants in the Peer Leader Program.
Prerequisite(s): Must be enrolled in Peer Leaders program

UA155 Freshman Rsrch & Creativ Opp
Hours 1-3
Introduction to research in creative activities in a major research university. The course will provide special opportunities to freshman students admitted to the Emerging Scholars Program.

UA156 Freshman Rsrch & Opport.II
Hours 1-3
Research component of UA 155.
Prerequisite(s): UA 155

UA200 Health and Wellness Advocacy
Hours 3
This is a 3 hour dynamic course designed to motivate, teach, and engage students in the area of peer health education. Students will explore and develop a deeper understanding of the most pertinent health and wellness issues impacting the college student population and receive training in the following core peer education skills: listening, referral, confrontation, stress management, and presentation skills. The health topics that will be covered include alcohol, tobacco, mental health, nutrition and fitness, eating disorders, financial management, sexual health and healthy relationships. Upon successful completion of this course, students will have the opportunity to become Certified Peer Educators (CPE).
UA205 Global Health Case Competition
Hours 1
Students will work in teams from across disciplines to present at the University of Alabama Global Health Case Competition in the Fall Semester. Students will be placed on teams based on their class standing, discipline/major, and international experience. Students will be required to participate in the UA Global Health Case Competition as a member of a team in the Fall Semester. The purpose of this course and the competition is for students to understand and develop solutions to complex global health concerns from a team and interdisciplinary approach. This course is designed to be collaborative across disciplines and reflect experiential education and engaged scholarship.

UA250 Capstone Catalysts for Change Seminar
Hours 1-3
Throughout history there have been many regional, national, and/or global disruptions which have resulted in significant reactions, responses, and lasting effects on our communities and world. In many instances, the world students have been preparing for suddenly changes in ways that may be difficulty to predict. Students will explore the lasting effects and how they can be "catalysts for change". UA faculty and other key experts will explore the cause, effect, and long-term impacts that these instances may have on local, regional, national and global societies.

UA251 Honors Capstone Catalysts for Change Seminar
UH
Hours 1-3
Throughout history there have been many regional, national, and/or global disruptions which have resulted in significant reactions, responses, and lasting effects on our communities and world. In many instances, the world students have been preparing for suddenly changes in ways that may be difficulty to predict. Students will explore the lasting effects and how they can be "catalysts for change". UA faculty and other key experts will explore the cause, effect, and long-term impacts that these instances may have on local, regional, national and global societies.

University Honors

UAEC200 UAEC College Readiness
Hours 2
UAEC 200 is a two-credit-hour course designed to orient UA Early College students to the procedures and skills necessary for navigating college-level online courses, and to prepare them to be successful in academic courses at The University of Alabama.