GEOGRAPHY, MS

The MS in geography offers four areas of study, including Earth system science, environment and natural resources, environment and society, and geographic information science.

In addition, the department offers a GIS certificate program that enables students to acquire technical and analytical skills.

The graduate program in geography prepares students to pursue further academic study and to work in a broad range of positions with federal, state, and local governments; environmental consulting firms; private conservation and resource management agencies; and educational institutions.

Admissions

Admission into the Geography MS program typically requires an undergraduate degree in geography, environmental science, or a related discipline. The Department of Geography at The University of Alabama offers the MS program in Geography with four areas of concentration:

1) Earth system science; 2) Environment and natural resources; 3) Environment and society; and 4) Geographic information science.

The first step in the application process is to identify a member of the faculty who shares your research interests and is willing to serve as your potential Advisor.

In addition to the minimum Graduate School admission requirements, to be considered for regular admission an application must include:

- A clear statement of purpose. In the statement of purpose section (up to 2 pages), applicants should explain clearly and cogently: i) why you wish to earn the MS and what are your academic and career goals, ii) why our department is a good fit for you, iii) which faculty member has agreed to serve as your Advisor, iv) what experiences and background you have that will help you succeed in graduate studies. Note that no students will be admitted, without a potential Advisor from our faculty.
- A resume or curriculum vitae.
- Three letters of recommendation, which discuss and evaluate the student’s writing skills, analytical abilities, and potential to excel at graduate studies and research.
- Academic/professional writing samples. These may include published research papers, conference papers, research or applied project reports, and term papers.
- GRE scores are not required by our graduate program. Submission of GRE scores is optional.

The decision for admissions will be made on the basis of a holistic review of an applicant’s academic record, recommendation letters, professional experience, statement of purpose, writing and analytical skills, and the overall potential for academic success.

Curricular Requirements

The primary purpose of Master’s degree program is to gain the skills, knowledge and expertise in their fields of study and to develop their research capability in a specific academic subject at an advanced level. The Master’s program is designed to assist students either to continue their graduate studies at the PhD level or to meet the goals of their professions. Two plans/options are offered for the Master’s degree.

The thesis option requires a total of 30 credit hours, including 6 credit hours of required courses and 6 credit hours for thesis research. A minimum of 12 credit hours must be taken from courses in one of the areas of concentration. The remaining 6 credit hours may consist of courses from any of the other areas of concentration and/or the related courses offered in other departments with Advisor approval.

The non-thesis option is only available with the approval of the graduate program director. Students on the non-thesis option track are not generally eligible for department funding and do not hold department assistantships. This option requires a total of 39 credit hours, including 6 credit hours of program required courses (GY 500 and GY 523) and 3 credit hours for non-thesis research projects (GY 598). Students selecting this option must take a minimum of 8 credit hours of geographic techniques, and may count up to 15 credit hours of such coursework towards their MS program. A minimum of 15 credit hours must be taken from courses in one of the areas of concentration. The remaining 10 credit hours may consist of courses from any of the other three areas of concentration, or related courses in other disciplines with the advisor and graduate program director’s approval (up to 6 of the 10 credit hours); and/or experiential courses (up to 3 of the 10 credit hours).

If a thesis-track student wishes to change to the non-thesis track, a written justification must be provided by the student. This change must be approved by the student’s advisor and the Graduate Program Director. Any student who makes this change will be ineligible for department funding and will not qualify for assistantships. GY599 - Thesis Research, cannot count toward a non-thesis track Master’s degree.

MS in Geography, Thesis Option

This option requires a total of 30 credit hours including 6 hours of program requirements and 6 hours of thesis research. A minimum of 12 credit hours must be taken from courses in one of the areas of focus including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 6 credit hours may consist of courses from any of the other three areas of focus and/or maybe selected from related courses offered in other disciplines with departmental approval (up to 6 of the 9 credit hours). A thesis committee should be established by the end of the first semester of residence and a thesis proposal must be defended by the end of the second semester of residence. Additional information is provided in the Department of Geography MS Graduate Handbook.
### MS in Geography, Non-thesis Option

This option requires a total of 39 credit hours including 6 hours of program requirements and 3 hours for non-thesis research projects. Students selecting this option must take a minimum of 8 hours of geographic techniques and may count up to 15 credit hours of such coursework towards their MS program. A minimum of 18 credit hours must be taken from courses in one of the areas of focus including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining credit hours may consist of courses from any of the other three areas of focus; related courses in other disciplines with departmental approval (up to 6 of the 10 credit hours); and/or experiential learning courses (up to 3 of the 10 credit hours). The non-thesis option is only available with the consent of the academic advisor and graduate program director.

<table>
<thead>
<tr>
<th>Code and Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>GY 500</td>
<td>Research Traditions Meth in Gy</td>
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<tr>
<td>GY 523</td>
<td>Quantitative Methods</td>
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<tr>
<td><strong>Area of Focus</strong></td>
<td>12</td>
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<tr>
<td><strong>Electives</strong></td>
<td>6</td>
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<tr>
<td>Electives can be taken in Geography or outside of the department. Consult faculty adviser. Electives can include:</td>
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<td>GY 532</td>
<td>Spec Research In Geog</td>
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<td>GY 570</td>
<td>Special Studies Geog</td>
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<td>GY 590</td>
<td>Internship</td>
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<td><strong>Thesis Course</strong></td>
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<tr>
<td>GY 599</td>
<td>Thesis Research</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>30</td>
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</tbody>
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### Areas of Focus:

**Earth System Science**
- GY 504 Physical Geo of SE US
- GY 505 Dir Research Physical Geograph
- GY 509 Forest History and Restoration
- GY 512 Hydroclimatology
- GY 513 Applied Climatology
- GY 514 Climate Change and Health

**Environment and Natural Resources**
- GY 504 Physical Geo of SE US
- GY 505 Dir Research Physical Geograph
- GY 509 Forest History and Restoration
- GY 510 Geography of National Parks
- GY 516 Geostatistics Using R
- GY 541 Land Use Regulations
- GY 545 Agriculture
- GY 551 Global Environmental Change
- GY 552 Environ Decision Making
- GY 553 Environment & Society
- GY 562 Land Use Science
- GY 572 Soils
- GY 573 Public Policy Water
- GY 577 Water Resources Management
- GY 585 River Hydrology
- GY 589 Forest Eco Veg Analysis
- GY 591 Fluvial Geomorphology
- GY 596 Forest Ecosystem Management: Silviculture
- GY 610 Seminar in Forest Science
- GY 663 Seminar in Geomorphology

**Environment and Society**
- GY 506 Dir Research Human Geography
- GY 510 Geography of National Parks
- GY 516 Geostatistics Using R
- GY 517 Extreme Weather and Society
- GY 541 Land Use Regulations
- GY 545 Agriculture
- GY 552 Environ Decision Making
- GY 553 Environment & Society
- GY 562 Land Use Science
- GY 566 Geography of Automobility
- GY 573 Public Policy Water
- GY 577 Water Resources Management
- GY 579 Planning Internship
- GY 581 Water Diplomacy
- GY 615 Seminar Human-Environment

**Geographic Information Science**
- GY 520 Remote Sensing I
- GY 529 Fundamentals of GIS
- GY 530 Intro Geographic Info Systems
The department. Generally, the thesis committee's role is to offer subject matter suggestions and to assist in advising the student. The thesis committee should be established by the end of the second semester in residence.

2) Thesis Proposal
The thesis research proposal (typically 10–15 pages) should include a well-referenced introduction to the research topic, well-defined problem statement, relevant literature, hypotheses if applicable, brief description of methods to be used, and timeline. The student should submit the research proposal to the thesis committee for review two weeks prior to the thesis proposal defense date. By the end of the second semester, the student must publicly defend the thesis proposal. The student must publicly present the thesis proposal and then defend it in a meeting with the thesis committee. A successful pass is indicated by the majority vote of the thesis committee to approve. A student who fails to pass the thesis proposal defense is permitted one additional attempt. The student who fails on the second attempt will be expelled from the program. The second proposal defense should be attempted before the end of the second semester in the program.

3) Thesis Style and requirement
Upon acceptance of the research proposal by the thesis committee, the student should work closely with the academic advisor to complete the thesis in a timely manner. The thesis is a coherent scholarly work, usually having 40-80 pages. However, the appropriate length will be determined by the student in consultation with the advisor and thesis committee. The traditional thesis typically includes chapters of Introduction (research problem), Review of Literature, Research Methods, Research Results, Discussion, and Conclusions.

The University does not permit an "article-style" thesis to be presented for a master's degree. But, a "journal-format thesis" is acceptable. Such a thesis follows the format of a particular journal in which the student and advisor want the thesis to be published. To prepare a journal-format thesis, the student uses the journal's "information for authors" or similarly titled guidelines in conjunction with the Graduate School's Student Guide to Preparing Electronic Theses and Dissertations.

4) Thesis defense
When the thesis has been completed, the student must publicly defend the thesis. A draft of the thesis should be provided to all members of the thesis committee at least two weeks prior to the date of the defense. Once the thesis committee has agreed that the student is prepared for the final oral defense, the student and committee members will set the defense date. Notice of the thesis defense must be given to the department two weeks prior to the defense date. The defense should be advertised with posted flyers and emails to the department faculty, staff, and students with the date, time, and location of the event. All members of the thesis committee are expected to attend and participate in real time. Virtual attendance via interactive video or teleconference is permitted for off-campus external committee members, but the student and Tuscaloosa campus faculty should attend in person unless extraordinary circumstances dictate the need for virtual attendance. In circumstances where virtual participation is necessary, real-time and fully interactive audio and visual communication capability must be included, and all participants must follow the Virtual Participation guidelines of the Graduate School.

A successful pass of the defense is indicated by a majority vote of the thesis committee to approve the written thesis and defense. The defense result must be reported through the Committee Acceptance Form (CAF) signed by all committee members, department chairperson, and graduate advisor.
Plan II – Non-Thesis Process Requirements

1) Qualifying Examination Committee

Each student in the Non-Thesis option is required to take the Master’s Qualifying Examination. The student must consult with the academic advisor to form the qualifying examination committee. The committee will consist of three departmental faculty members with full graduate faculty status. Normally, the student’s advisor serves as chair and two other committee members are the faculty members whose courses the student has been enrolled and/or whose research areas matches the student’s interest.

2) Qualifying Examination

The Qualifying Examination is an oral exam designed to assess the student’s breadth and analytical ability in the discipline of geography. The exams typically last 1.5 hours and cover topics from 100-level geography courses, GY 500 and GY 523, and material in the student’s concentration area within geography. Normally, this exam is administered during the beginning of the student’s third semester of residence. However, the examination will not be given before the student has successfully completed a minimum of 18 credit hours (of which 15 credit hours must be taken in the Master’s Geography Program). A majority vote by the three-person examination committee will determine the outcome of the examination. Failing the examination twice results in dismissal from the program.

3) Non-thesis Research Paper

Following the successful completion of the Master’s Qualifying Examination, a student in the non-thesis option is required to submit two course-related research papers for fulfillment of the Master’s degree. Normally, non-thesis research papers are between 15–20 typewritten pages in length and demonstrate the student’s written and analytical skills. The papers must be read and approved by the advisor and an additional member of the geography faculty with full graduate faculty status. The second reader must be selected by the student in consultation with the advisor and must be approved by the advisor. The same faculty member cannot serve as the second reader for both non-thesis research papers. Normally, the readers are the same faculty members that comprised the Master’s Qualifying Examination committee.

Time Limits for Degree Completion Requirements

Typically, students are expected to complete all requirements for the Master’s degree within two years following admission to the Master’s program. The maximum time limit for the Master’s degree is six years, as indicated by the graduate school’s information about time limits for degree completion:

Graduate School information on Time Limits.

Student Progress Requirement

Students need to submit an annual progress report at the end of the Spring semester. The annual report covers the students’ progress in coursework, comprehensive exams (for non-thesis students), thesis or non-thesis research progress, publications, and other research activities (fieldwork, conferences). The annual report should be reviewed by the student’s advisor and the Graduate Program Committee. A student can be dismissed for lack of satisfactory progress, or department funding may be terminated.

Academic Misconduct Information

Academic misconduct, including cheating, plagiarism, and fabrication of information, will be handled by following the Academic Misconduct Disciplinary Policy.

Graduate School information on Academic Misconduct.

Withdrawals and Leave of Absence Information

If a graduate student desires to withdraw from a course or from the university (i.e., withdraw from all courses in the semester), either for non-medical or medical reasons, the student is encouraged to consult with his or her academic advisor and the department chair. It is the student’s responsibility to review the UA Academic Calendar for the specific date by which one may drop a course. Under compelling circumstances beyond the student’s control, a graduate student may request that the department petition the Graduate School with the rationale for granting a leave of absence. The written request must be approved (signed) by the advisor and Graduate Studies Director and placed in the student’s file. The student is not guaranteed funding upon their return to the program.

Graduate School information on Withdrawals and Leave of Absence.

Academic Grievances Information

Information about Academic Grievances.

Scholastic Requirements

All graduate students must earn and maintain an overall graduate grade point average (GPA) of 3.0 or better for all graduate courses undertaken at The University of Alabama. Students who have received an academic warning with a GPA below 3.0 may not hold graduate assistantships.

Information about Scholastic Requirements.

Graduate School Deadlines Information

It is the student’s responsibility to regularly check Graduate School deadlines.

Application for Graduation Information

Each candidate for a master’s degree must submit an Application for Degree via myBama.

Additional information about the application for graduation.