

The Graduate School

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Points of Contact

The Graduate School is open 7:45-11:45 a.m. and 12:45-4:45 p.m., Monday through Friday.

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Assistantships: Call the head or chair of the department in which the student wishes to enroll.

General Regulations

Regulations governing the Graduate School equal or exceed the standards of the Conference of Southern Graduate Schools and the Commission on Colleges and Universities of the Southern Association of Colleges and Schools. Regulations listed here represent the minimums of the Graduate School. However, individual departments may impose more stringent requirements and students will be governed by them.

Admission Requirements

Departments make admissions decisions based on the compatibility of the applicant's goals with departmental resources, the availability of spaces for new students, and a holistic evaluation of the applicant's potential for success in the program. Other considerations might typically include standardized test scores, grades and/or grade-point averages, letters of recommendation, writing samples, research or applied experience, and interviews.

To be considered for admission, the applicant must satisfy the following requirements:

1. The applicant must hold a bachelor's degree from an accredited U.S. institution, or the equivalent from an international institution.
2. The applicant must be in academic good standing at the institution last attended.
3. The applicant must submit standardized examination scores (GRE, GMAT, and/or TOEFL). Applicants with an earned doctorate (Professional, EdD, PhD) from an accredited institution whose instruction is in English may be exempted from this requirement.
4. The successful applicant normally will meet one of the following: a) a grade-point average of at least 2.75 on all undergraduate course work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree; b) a grade-point average of at least 3.0 on the last 60 semester hours of undergraduate course work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree; c) a grade-point average of at least 3.0 on all graduate course work at an accredited United States institution in fulfillment of the requirements for a graduate degree; or d) an acceptable GRE or GMAT score as determined by the program to which the applicant applies.
5. Applicants whose native language is not English must submit either TOEFL scores of at least 550 on the written test (213 on the computer-based test, 79 on the Internet Based Test) or IELTS scores of at least 6.5.
6. The applicant must be recommended for admission by the graduate faculty in the applicant's area of study. Departments may (and frequently do) establish higher standards than those described here, and may require that applicants submit additional materials. Applicants should contact the department to which they seek admission for information about additional requirements.

Final evaluation of application files will not occur until all of the above requirements have been met. Applicants will be notified by the dean of the Graduate School when an admissions decision has been made. Some departments, operating with a limited number of spaces for students each year, make final decisions for the fall semester in early spring.

Application for Admission

To apply for graduate study, submit to the Office of Graduate Admissions:

1. A formal application. Applications for admission are submitted online at www.grad.auburn.edu. Domestic applications must be accompanied by a fee of \$25; international applications must be accompanied by a

fee of \$50. These fees may be paid online via credit cards or by checks or money orders (made payable to Auburn University).

2. One official transcript of all undergraduate- and graduate-level study from each school previously attended. An applicant who, because of current enrollment, cannot provide final transcripts at the time of application, must submit transcripts of all completed study, as well as incomplete transcripts from the current institution. Applicants do not need to provide transcripts for credits earned at Auburn University.
3. Standardized Graduate Record Examinations (GRE) general test scores. Management, Finance, Marketing, Business Administration, and Accounting applicants must submit scores on the Graduate Management Admission Test (GMAT). Management will accept the GRE or GMAT. The master of business administration program will allow the substitution of the GRE for the GMAT under some circumstances. International applicants must also submit Test of English as a Foreign Language (TOEFL) scores. In addition to the GRE General Test, the English department requires the GRE Subject Test for admission to their doctoral program. Applications and dates for these tests may be obtained at many colleges and universities; by writing the Educational Testing Service, P.O. Box 6000, Princeton, NJ 08541-6000; by telephoning (609) 771-7670 for the GRE, (609) 771-7330 for the GMAT, or (609) 771-7100 for the TOEFL; or by accessing the Educational Testing Service Web site at www.ets.org.
4. Additional Materials. Academic programs typically require additional materials in order to evaluate an applicant's potential for graduate study. Prospective students must also contact the department in which they wish to study to obtain information regarding additional admission requirements, such as writing samples and letters of recommendation. With the exception of the application, official transcripts, and standardized test scores, which should be sent to the Graduate School, materials requested by programs should be sent directly to the academic department.

Admission to any graduate degree program is granted by the dean of the Graduate School upon the recommendation of the department of proposed study. Applications and all other relevant material must be received by the Graduate School at least forty-five days before the first day of class of the semester in which the student wishes to begin graduate study. International applicants should submit all required materials at least ninety days before the first day of class of the semester in which the student wishes to begin graduate study. Deadlines set by the Graduate School are listed in the front of this bulletin. However, most academic units make admission decisions several months in advance. Thus, applicants should check with the department to which they seek admission to determine when materials should be submitted. Approval is valid for a maximum of twelve months beyond the entrance date given on the application. If the student does not register during this period, a new request for approval must be submitted. Application materials become the property of Auburn University and may not be returned to the applicant or forwarded to other institutions.

Admission of Transient Graduate Students

A graduate student in good standing in an accredited college or university may be admitted as a transient when faculty and facilities are available. To be eligible, the student must submit a special Graduate Transient Form prior to the beginning of the semester for which transient status is requested. The form, available from the Graduate School or on the Web at www.grad.auburn.edu, must bear the signature of the student's graduate dean or his/her designee. Transient status is granted for one semester only and does not constitute admission or matriculation as a degree candidate.

Student Classifications

For administrative purposes, Auburn University students are assigned to a class level. Those that apply to graduate students are:

- MST - Students who hold full admission to master's programs.
- EDS - Students who hold full admission to Specialist in Education programs.
- EDD - Students who hold full admission to doctor of education programs.
- PHD - Students who hold full admission to doctor of philosophy programs.

GND - Special admission for non-degree purposes for students who meet all admissions requirements to Graduate School or who hold master's degrees from accredited institutions and seek professional improvement leading to AA certification or other non-degree objectives.

GPR - Students who meet requirements for provisional admission except that they have not taken the GRE or GMAT. This classification is for one semester only, and satisfactory scores must be submitted by the end of that semester. This classification cannot be used by international students, who must submit satisfactory scores on all required examinations before they are admitted.

Undergraduate Courses, S/U Option and Auditing Courses

A graduate student may register for undergraduate courses (1000-4000-level). For students enrolled in Graduate School, grades earned in undergraduate courses will not be used in calculation of the grade-point average for either retention or graduation, but will appear on the graduate transcript. This policy took effect with the posting of grades fall 1998. For courses taken before fall 1998, grades earned in undergraduate courses may be used in calculation of the grade-point average for retention, but not for graduation. A graduate student may elect any course to be graded under the Satisfactory (S)-Unsatisfactory (U) option, except for courses required on the Plan of Study, if the major professor so recommends. Students are not allowed to select this option after the 15th class day. Courses listed on the Plan of Study must be graded A, B, C, D or F except for those designated as S/U. Similarly a graduate student may elect to audit any course not on the Plan of Study. The student may not change from audit to credit after classes begin, but may change from credit to audit before the 15th class day. All use of the S/U and audit option require approval of the Graduate School.

Two-Campus Studies

A student seeking a graduate degree at Auburn University, Auburn University at Montgomery, the University of Alabama, the University of Alabama at Birmingham, or the University of Alabama at Huntsville may take up to half the course work at another of these institutions. The courses taken must be approved in advance by the student's Advisory Committee and the respective graduate deans. All credit must be earned at the two institutions in which the student is working, and none may be transferred from another institution.

Transfer to a Different Degree Program

For a student to transfer from one department to another requires a new application for admission and the usual application fee. Changes in application status (master's to doctoral, doctoral to master's) or enrollment status (master's to doctoral, doctoral to master's) must be requested by the applicant/student involved and endorsed by the department head or chair, major professor, and advisory committee for enrolled students and approved by the dean of the Graduate School. Current international students must recertify full financial sponsorship for the issuance of a new I-20 form.

Non-Graduate Students and Graduate Work

An Auburn University undergraduate student may register for graduate courses provided that the following conditions are met: the student has at least a 3.0 grade-point average, is within 30 semester hours of graduating, has the written consent of the instructor of each graduate course, and obtains approval in advance from the Graduate School. A maximum of 6 semester hours of graduate course work taken in this option later may be applied toward a graduate degree at Auburn University with the approval of the student's advisory committee provided that appropriate arrangements are made in advance with the Graduate School and a grade of B or higher is achieved on all courses used for graduate credit. The total course load taken at the time the undergraduate student is in a graduate course may not exceed 16 semester hours. The same guidelines apply to undergraduate students taking graduate courses for undergraduate credit. A student may not use the same graduate course for both undergraduate and graduate credit.

Any post-baccalaureate, non-degree student desiring enrollment in a graduate course must receive written consent of the instructor and approval of the Graduate dean in order to register for such a class.

Graduate Study and University Employees

An Auburn University faculty member or employee may pursue a graduate degree outside the school or college of employment with the approval of the head or chair of the employing department and the dean of the employing school or college. Inquiries should be made to the dean of the Graduate School.

Graduate Assistantships

Graduate assistant appointments are temporary. Continuation depends upon availability of funds, level of enrollment, and research needs. Salaries are paid in accordance with the budget policies and pay-roll procedures of the university. The Board of Trustees is obligated to pay certain fixed charges against the institution and thereafter pay salaries in full insofar as funds are available. If for any reason beyond the control of the Board of Trustees funds are not available, salaries will be prorated.

Each graduate assistant must be in a degree-seeking program and registered in the classification of MST, EDS, PHD, EDD, or GPR. The student also must be registered for at least one course (during each academic term of the assistantship), must satisfy the minimum course load specifications of the individual departments and must be making satisfactory progress toward the degree.

Workloads for graduate assistants are defined on the basis of a normal teaching load or the equivalent time in other duties as determined by each department head and the dean of the school or college in which the assistant is employed. For example, a one-third workload is one-third of a normal teaching load. Graduate students may hold multiple assistantships and the assistantships may come from different units on campus, but together they cannot add up to more than a 100 percent appointment. Maximum course loads for graduate assistants are determined by individual departments. It is recommended that graduate students working more than half-time not carry a full academic load.

Requirements that graduate students register for hours not included in the plan of study as a condition of employment or to enhance credit hour production for administrative purposes are inappropriate. Similarly, requiring hours on the plan of study beyond the degree requirements established by the Graduate Faculty for such administrative purposes is also inappropriate unless the additional requirements are required by university policy.

International graduate students on F1 visas cannot hold a greater than 50 percent work appointment. International graduate students on F2 visas cannot hold a work appointment. Multiple assistantships for international graduate students cannot add up to more than a 50 percent work appointment.

International graduate teaching assistants who are assigned to scheduled lecture or laboratory sections must first be certified in spoken English proficiency. Certification may be attained through a minimum score of 50 on the Test of Spoken English (TSE) offered by the Educational Testing Service or approval by the director of the English as a Second Language Program (ESL). Applicants who hold a baccalaureate degree from an accredited institution whose instruction is in English may be exempted from this requirement.

Non-Alabama resident graduate assistants may receive an out-of-state tuition waiver if they are on at least a 25 percent graduate assistantship and are paid a minimum monthly stipend set each year by the provost. Such graduate assistants who have been on assistantship for at least two consecutive semesters will automatically have their out-of-state tuition waived for the next semester whether or not they are on assistantship that semester.

Graduate Fellowships

Auburn University provides in-state tuition fellowships to most of its students holding graduate assistantships. Though administered through the Graduate School, applicants should contact the specific academic departments concerning eligibility and availability.

Oak Ridge Associate Universities

Auburn University has been a sponsoring institution of the Oak Ridge Associated Universities (ORAU) since 1946. ORAU is a private, not-for-profit consortium of 82 colleges and universities and a management and operating contractor for the U.S. Department of Energy (DOE) with principal offices located in Oak Ridge, Tennessee. Founded in 1946, ORAU provides and develops capabilities critical to the nation's

technology infrastructure, particularly in energy, education, health and the environment. ORAU works with and for its member institutions to help faculty and students gain access to federal research facilities; to keep members informed about opportunities for fellowship, scholarship and research appointments; and to organize research alliances among our members in areas where their collective strengths can be focused on issues of national importance.

ORAU manages the Oak Ridge Institute for Science and Education (ORISE) for DOE. ORISE is responsible for national and international programs in science and engineering education, training and management systems, energy and environment systems and medical sciences. ORISE's competitive programs bring students at all levels, K-12 through postgraduate, and university faculty members into federal and private laboratories. Other ORAU activities include the sponsorship of conferences and workshops, the Visiting Scholars program and the Junior Faculty Enhancement Awards. Contact Dr. Bryan A. Chin, (334) 844-4784, for more information about ORAU programs.

Calendar

The university operates on the semester system. The Graduate School calendar at the beginning of this bulletin is also available at the Graduate School and contains the dates of various important deadlines. It should be followed carefully.

Advisers

The dean of the Graduate School is the general counselor to all graduate students. A faculty advisor or major professor will be designated for each student by the head or chair of the major department. There also will be an advisory committee for each student. Some required forms and reports regarding the student's program must be approved by the major professor, advisory committee, department head or chair and the dean of the Graduate School. Students should ascertain which signatures must be obtained.

Due Process

Each graduate student's progress toward a degree will be monitored by the student's advisory committee. If a graduate student is deemed not to be making satisfactory progress toward the degree, the student may be dropped from the Graduate School. Issues of professional and personal development may be considered in determining satisfactory progress toward the degree.

Grades

To receive a graduate degree at Auburn University, a student must earn a cumulative grade-point average of 3.0 on a 4.0 scale on all courses carrying graduate credit. No more than nine hours beyond the student's Plan of Study is allowed in obtaining the cumulative graduate grade-point average (CGGPA). No grade below C (including unsatisfactory grades for courses taken under the S/U option) is acceptable for credit toward a graduate degree. Each graduate course in which a grade below C is received must be repeated at Auburn University whether or not it is listed on the student's Plan of Study. Both the original grade and the grade for the repeated course will be counted in calculating the CGGPA. Course credits transferred from another institution may not be used to satisfy this requirement. Courses retaken will not count against the nine-hour limit beyond the student's Plan of Study in obtaining the minimum CGGPA.

Withdrawing from Courses

Courses may be dropped without academic penalty on or before mid-semester. A course may be dropped after mid-semester only under unusual conditions. When the Graduate dean approves dropping the course under such circumstances, a W will be assigned only when the instructor indicates that the student is clearly passing the course. Otherwise a grade of WF (Withdrawn Failing) is assigned. A student dropping the only course or all courses for which the student is registered after the first class day must resign for the semester on a separate form obtained from the Graduate School.

Academic Standing

Only grades in Auburn University courses approved for graduate credit will be used in determining the overall grade-point average for continuation in the Graduate School. If at the end of any semester the cumulative

graduate grade-point average (CGGPA) falls below 3.0, the student will be placed on academic probation. If the CGGPA remains below 3.0 after the next nine credit hours of graduate enrollment (both graded and ungraded), the student will be placed on academic suspension. The student may be readmitted only after completion of a remediation plan recommended by the academic unit and approved by the dean of the Graduate School. No course work taken as part of the remediation plan may count toward the student's degree or CGGPA. Graduate-level courses for which grades below C were earned may not be repeated during the remediation period.

Academic Bankruptcy Policy

Auburn University graduate students who have been suspended or expelled because of poor academic performance may petition the Graduate School for a declaration of academic bankruptcy. Academic bankruptcy allows the student to petition his or her department and the Graduate School to restart his or her graduate program after a two-year separation from Auburn University. The student forfeits all graduate courses and credits earned at Auburn University and any transfer courses and credits accepted by Auburn University prior to the declaration. For readmission, the student must submit a new application for admission and must meet the regular admission requirements of the Graduate School and be accepted by the graduate program to which the student is applying. Upon readmission, Auburn University will retain all forfeited courses on the student's transcript, but will not include forfeited courses in the calculation of the Graduate Grade Point Average. Upon readmission, students may request acceptance of previously forfeited transfer courses, but not courses earned at Auburn and forfeited in accordance with this policy. Students may not declare academic bankruptcy more than once.

Incompletes

A grade of "incomplete" must be removed within the following six months or it will be recorded permanently as an F and the course will have to be repeated. This applies regardless of the student's enrollment status. A student not enrolled during the following six months is not exempt from this rule. No student may graduate until "incomplete" and "no record" grades are removed, and the removal must be completed at least three weeks before the date of graduation, regardless of whether the course is included on the Plan of Study.

Transfer of Credit from Other Institutions

Graduate credit taken in residence at another approved graduate school may be transferred to Auburn University. No prior commitment is made concerning whether transfer credit will be accepted. A student must earn at least 24 semester hours, or half of the total hours required for a master's degree, whichever is greater, at Auburn University. A program that requires 30 hours of credit will be limited to 6 semester hours of transfer credit. No such limitation is applied to doctoral degrees except 18 semester hours must be earned as a graduate student at Auburn University in graded course work at the 6000-level or above. The credit must be acceptable to the student's advisory committee and be pertinent to the student's Plan of Study. No transfer credit will be approved without an official transcript. No course on which a grade lower than B was earned may be transferred. Additionally, credit will not be allowed if the combined grade-point average on graduate work taken at other schools is less than 3.0 on a 4.0 scale, nor may transfer credit be used to improve the grade-point average on courses taken at Auburn University. All transferred credit to be counted toward a master's or specialist degree must have been earned within five years of the date the Auburn degree is awarded. There is no such time limit on credit for doctoral degrees.

Correspondence Work Unacceptable

Study by correspondence shall not be counted toward a graduate degree.

Classified or Proprietary Research

No thesis or dissertation should be based exclusively on a proprietary or classified research project, nor should a thesis or dissertation include proprietary or classified information. Any graduate student and advisor engaged in such research should identify an alternative topic for the thesis or dissertation. Should a thesis or dissertation include such information, the document must be rewritten with offending material excised.

Research Involving Humans

Auburn University established the Institutional Review Board for the Use of Human Subjects in Research (IRB) to evaluate research for compliance with the guidelines and policies of the U.S. Department of Health and Human Services, the Public Health Service, the Food and Drug Administration and other federal, state and local regulations. All research in which human subjects are used, whether by faculty, staff or students, must be approved in advance by the IRB, regardless of the source of funding, lack of funding or any other consideration. Research involving human subjects not approved in advance may be disallowed and may incur severe penalties for non-compliance with institutional policy. Information and review forms may be obtained from the Administrator for Special Programs, 307D Samford Hall, (334) 844-5966.

Activities Involving Animals

Auburn University's Animal Resources Program requires compliance with the Animal Welfare Assurance negotiated with the Office of Protection from Research Risks/National Institutes of Health (OPRR/NIH). A major part of that Assurance involves the Institutional Animal Care and Use Committee (IACUC) that ensures compliance with the Assurance, the policies of the U.S. Department of Health and Human Services, the U.S. Department of Agriculture and all other federal, state and local regulations concerning care, treatment and use of animals. All activities, whether teaching, research, production or display of animals, and whether or not the activity is funded, must be approved in advance by the committee. The use of animals for any purpose that is not approved in advance by the IACUC may involve severe penalties for non-compliance with institutional policy and could jeopardize the university's Animal Welfare Assurance filed with the OPRR and the NIH. Information may be obtained from the Director of Animal Resources, (334) 844-5667.

Registration and Graduation Requirements

Every student expecting credit toward a graduate degree must be registered with the Graduate School, and no student is considered a candidate for a degree unless properly registered. A student must be registered in the term in which degree requirements are completed. Students who have completed all course requirements but who lack other requirements (non-thesis final exam, internship, etc.) must register for the term in which those requirements are completed. The student also must register in any semester during which the staff or the facilities of the university are used for work on a thesis or dissertation, for the taking of oral examinations, or for removal of an "incomplete" grade. Thesis and dissertation students needing thesis or dissertation final approval and submission and the final examination, or non-thesis graduate students needing to complete projects, would register for 7990 Research and Thesis, 8990 Research and Dissertation, or 7980 Project, as applicable. Non-thesis graduate students requiring only a final examination would register for GRAD 7000. Students who have in a previous term completed all requirements for the degree, upon receipt of a "certificate of completion" form from the Graduate School, will not be required to register in a future term if their graduation is delayed or postponed.

No student will be permitted to graduate who fails to submit a graduation check request to the Graduate School prior to the semester of expected graduation. Graduation day is the official last day of each semester and, therefore, is the deadline for approved plans of study and graduation checks for graduation the following semester. It is the responsibility of graduate students to check records for compliance with graduation requirements. Students who have completed a graduation check for a previous term must notify the Graduate School of pending graduation before the 15th class day of subsequent semesters. Graduate degrees are awarded at the end of each semester. Candidates wishing to graduate in absentia must inform the Registrar's Office.

A graduate student may carry a maximum course load of 16 hours per semester (14 in the summer term). This includes undergraduate courses, but does not include 7990 (Research and Thesis) and 8990 (Research and Dissertation) when required of all graduate students in a department each semester. Graduate students must carry nine hours per semester or enroll in GRAD 7AA0/8AA0 with concurrent enrollment for a minimum of one hour of 7990/8990 to be classified as full-time students. Enrollment in GRAD 7AA0/8AA0 requires the completion of a certification available at the Graduate School or on the Web at www.grad.auburn.edu.

Master's (thesis option only) students are eligible for up to three semesters of GRAD 7AA0; doctoral students for up to six semesters of GRAD 8AA0.

The Master's Degree Program

The minimum requirements for most master's degrees can be satisfied in one academic year of two semesters or nine months. In practice, however, many students need three semesters or longer. Certain departments have special requirements as outlined in this bulletin. In addition, those students who hold assistantships or fellowships, those who engage in time-consuming work off-campus, or those with scholastic deficiencies of any sort cannot meet all requirements in the minimum time. Also, research is unpredictable and frequently requires more time than anticipated. Certain departments offer a master's degree under two plans, referred to as the Thesis Option and the Non-Thesis Option.

Time Limit

All graduate work toward a master's degree must be completed within a period of five calendar years.

Advisory Committee

The student works under the direction of an advisory committee composed of three members recommended by the appropriate department head or chair. Two must be members of the graduate faculty. This committee will approve the student's program of study, conduct required examinations and direct the required field project or thesis. Students in a teaching field (e.g., music education, science education, foreign language education) work under a committee composed of at least two members from the College of Education and one member from a related academic field.

Plan of Study

Early in the graduate program, each student should confer with the appropriate departmental advisor or major professor to select courses and discuss research interests. Then a Plan of Study should be prepared and submitted to the Graduate School. The Plan of Study form is available on the Web at www.grad.auburn.edu or in the Graduate School. For full-time students, the Plan of Study must be submitted no later than the end of the first semester in Graduate School. No student will be permitted to graduate who fails to submit a Plan of Study. For part-time students, the Plan of Study must be submitted before registration for the fourth course taken in Graduate School. Notification of all changes must be provided before the beginning of the final semester. One to three changes may be made by using the simplified "Change in Existing Plan of Study Form" available at the Graduate School or on the Web. Four or more changes require a new Plan of Study. The student is responsible for carrying out the planned program and for asking the major professor to make necessary changes.

Language Requirement

Some departments require a reading knowledge of one foreign language. These requirements are outlined in the departmental statements later in this section. Arrangements to take the foreign language examination should be made with the student's major professor and the head or chair of the department. The student must apply at the Graduate School by the deadline for each semester listed in the calendar.

Residency Requirement

Resident, on-campus study is the foundation for research-based graduate degree programs at Auburn University. Any graduate student enrolled in a degree program culminating in a thesis or dissertation must directly engage in research with the major professor, must have access to the research tools needed for the research activity, must be immersed in the culture of graduate education, must engage in the professional activities of the discipline, and must complete the research activity in a reasonable period of time. Graduation requires the major professor to certify compliance with these requirements.

Summary of Procedures for Master's Degree Program

The student should:

1. Obtain application forms from the Graduate School and apply for admission by submitting completed forms and other required materials as outlined in this bulletin.

2. Apply for an assistantship, if pertinent, with the department involved.
3. Become familiar with requirements for the desired degree as outlined in this bulletin.
4. Consult with departmental advisor and become oriented to departmental procedures.
5. Plan schedule of study for the first semester with advisor.
6. Establish an advisory committee through the department head or chair and departmental advisor; usually done during the first semester of course work.
7. Prepare a proposed Plan of Study in consultation with the advisory committee. Submit a plan approved by the committee and department head to the Graduate School no later than the second semester.
8. Consult with the advisor on approval for the thesis plan, if pertinent, and become familiar with the Guide to the Preparation and Submission of Theses and Dissertations, available in the University Bookstore and on the Web (www.grad.auburn.edu).
9. Fulfill language requirements, if any.
10. Request graduation check in the Graduate School no later than the last day of the semester (graduation day) prior to the semester of graduation.
11. Register for at least one course the semester of graduation.
12. Prepare thesis manuscript, if pertinent.
13. Arrange for final oral examination with advisory committee.

Master's Degree Options

The following general regulations are minimum requirements. The professor or committee in charge of a student's work may require more than the specified minimum in order to achieve a well-rounded program. All programs require a minimum of 30 semester hours of graduate courses, 6000-level or above.

The Thesis Option

The master of arts, master of science and master of industrial design are offered under the thesis option. Thesis students register for 7990 Research and Thesis in semesters when working on the thesis, when submitting, defending or awaiting final approval of the thesis, and when taking final examinations.

Major and minor subjects: A student under the thesis option must earn a minimum of 30 semester hours, of which at least 21 semester hours must be in a major area of concentration. Depending on departmental requirements or the wishes of the student's advisory committee, the remainder of the course work may be taken within the major field or in a separate but closely related area. Specific requirements are set forth in this bulletin.

If a student has not met all undergraduate pre-requisites in any field chosen for major or minor work, these should be scheduled as soon as possible, preferably before graduate work begins. The major professor will indicate these on the student's Plan of Study.

The topic selected for the thesis must be approved by the student's major professor and advisory committee. The student conducts the research and prepares the thesis under the direction of the major professor. The course, Research and Thesis, is number 7990 in all departments. The student must register for a minimum of four credit hours of this course but may register for as many hours as desired. No more than six hours may be counted toward meeting degree requirements. The student may register for one or more hours at a time. No grade is assigned for this course.

The Guide to the Preparation and Submission of Theses and Dissertations, which contains information about requirements for the thesis, is available on the Web at www.grad.auburn.edu. Submission of a thesis is defined as the time at which the first complete draft of such is submitted to the major professor for review. The Graduate School accepts only theses prepared according to the Guide. The Graduate School Calendar lists the deadline for acceptance of final copies of theses by the Graduate School each semester. "Final copies" means that the thesis is perfected and ready for binding. A format check may be obtained at the Thesis and Dissertation Office in the Graduate School. If final copies are found to need corrections, the student's graduation may be delayed at least one semester. Auburn University reserves the right to make copies of the thesis, but the student retains all publication rights. Effective summer 2005, all theses must be published electronically through AUETD.

All candidates under the thesis option must pass a comprehensive examination covering the major and minor field, as well as the research and thesis. This usually is a two-hour oral examination, but the student's

advisory committee also may require a written examination. Members of the Graduate Faculty not on the advisory committee may attend any oral examination as visitors. The major professor will schedule the oral examination not later than the deadline indicated in the Graduate School Calendar. Successful completion requires the unanimous support of all members of the advisory committee. If a student fails the examination, one re-examination may be given on recommendation of the advisory committee and approval by the dean of the Graduate School. Further examinations will be allowed only under exceptional circumstances and with the approval of the Graduate Council.

The Non-Thesis Option

Information on special or professional master's degrees not requiring a thesis may be found in this bulletin. Students in these programs must pass a comprehensive examination just as do students under the thesis option. The examination covers the major and minor and any research and special project involved. Non-thesis graduate students who complete a special project must register for 7980 Project in semesters when working on the project. Non-thesis students requiring only a final examination register for GRAD 7000 in the semester when the exam is taken. Credit hours for 7990 Research and Thesis cannot be counted toward graduation requirements for non-thesis degree programs. If a student fails the examination, one re-examination may be given on recommendation of the advisory committee and approval by the dean of the Graduate School. Further examinations will be allowed only under exceptional circumstances and with the approval of the Graduate Council.

The Master of Science

The master of science is offered in aerospace engineering, agricultural economics, animal sciences, biological sciences (botany, microbiology and zoology), biomedical sciences (thesis and non-thesis), chemical engineering, chemistry, civil engineering, communication disorders, computer science and software engineering, consumer affairs (thesis and non-thesis option), counseling and counseling psychology, curriculum and teaching, discrete and statistical sciences, economics (thesis and non-thesis option), educational foundations leadership and technology, electrical and computer engineering, finance (thesis and non-thesis option), fisheries and allied aquacultures, forestry and wildlife sciences, geology (thesis and non-thesis option), health and human performance, horticulture, human development and family studies, industrial and systems engineering, management (thesis and non-thesis option), materials engineering, mathematics, mechanical engineering, nutrition and food science (thesis and non-thesis option), pharmaceutical sciences, pharmacy care systems, physics (thesis and non-thesis option), plant sciences (agronomy and soils, entomology, and plant pathology), polymer and fiber engineering (thesis and non-thesis option), poultry science, rehabilitation and special education, and sociology (thesis and non-thesis option).

The Master of Arts

The master of arts is offered in communication (thesis and non-thesis option), English (thesis and non-thesis option), history (thesis and non-thesis option), sociology (thesis and non-thesis option) and Spanish.

Second Master's Degree

For a second master's degree, the student fulfills all major requirements applicable to any other master's degree, including the thesis, if appropriate. The student may, on recommendation of the advisory committee, transfer credit hours from the previous master's degree. The student must earn at least 24 semester hours, or half of the total hours required for the master's degree, whichever is greater, in the second master's program at Auburn University.

Special or Professional Master's Degrees

These special or professional degrees are offered: master of accountancy, master of aerospace engineering, master of agriculture (agricultural economics, agronomy and soils, animal sciences, entomology, horticulture, plant pathology, and poultry science), master of applied mathematics, master of aquaculture, master of building construction, master of business administration, master of chemical engineering, master of civil engineering, master of communication disorders, master of community planning, master of design build, master

of software engineering, master of education (counseling and counseling psychology, curriculum and teaching, educational foundations leadership and technology, health and human performance, and rehabilitation and special education), master of electrical engineering, master of forestry, master of hispanic studies, master of industrial design (thesis and non-thesis option), master of industrial and systems engineering, master of landscape architecture, master of management information systems, master of materials engineering, master of mechanical engineering, master of probability and statistics, master of public administration, master of technical and professional communication, and master of biological studies.

The Specialist in Education Degree

This degree is designed for professionals in education and human services areas who want increased competence in a field of specialization. Areas of specialization are offered in the various departments in the College of Education.

Admission

Scholarship, interpersonal orientation and potential for leadership are considered in the screening procedure. Appropriate experience in teaching or a leadership position in education or a human services area is requisite. All work beyond the baccalaureate must have been of high quality with a grade-point average of at least 3.0 on a 4.0 scale. Students holding a master's degree from Auburn University are not required to resubmit GRE scores.

Advisory Committee

The specialist student works under the direction of an advisory committee composed of three members recommended by the appropriate department head or chair. All must be members of the Graduate Faculty. This committee will approve the student's program of study, conduct required examinations and direct the required field project. Students in a teaching field (e.g., music education, science education, foreign language education) work under a committee composed of two members from the College of Education and one member from a related academic field.

Requirements for Degree

A minimum of 30 semester hours beyond the master's degree must be taken in a program approved by the student's advisory committee. The Plan of Study should be submitted to the Graduate School no later than the second semester of study. Professional educators pursuing sixth-year certification are responsible for adapting their Plans of Study to requirements in the states in which they will need advanced certification. A relevant field project, approved in advance by the student's committee, must be completed under the supervision of the major professor. A final written report on the field project will be submitted to the advisory committee by the student. The advisory committee will conduct a final examination on the area of specialization and the field project.

No student will be permitted to graduate who fails to submit a Plan of Study and graduation check to the Graduate School prior to the semester of expected graduation. Graduation day is the official last day of each semester and, therefore, is the deadline for submitting Plans of Study for graduation the following semester.

Time Limit

All graduate work toward an Education Specialist degree must be completed within a period of five calendar years.

Doctoral Degrees

The doctor of philosophy is offered in aerospace engineering, animal sciences, biological sciences (botany, microbiology and zoology), chemical engineering, chemistry, civil engineering, computer science and software engineering, counseling and counseling psychology, curriculum and teaching, discrete and statistical sciences, educational psychology, electrical and computer engineering, English, fisheries and allied aquacultures, forestry and wildlife sciences, history, horticulture, human development and family studies, industrial and systems engineering, kinesiology, management, materials engineering, mathematics, mechanical engineering, nutrition and food science, physics, plant sciences (agronomy and soils, plant pathology, and entomology), poultry science, psychology, public administration and public policy, and

rehabilitation and special education, plus interdepartmental programs in biomedical sciences (anatomy, physiology, and pharmacology; large animal surgery and medicine; pathobiology; radiology; and small animal surgery and medicine), economics (agricultural economics and forestry), integrated textile and apparel science (consumer affairs and polymer and fiber engineering), and pharmaceutical sciences (pharmaceutical sciences and pharmacy care systems).

The doctor of education is offered in the following departments: Counseling and Counseling Psychology and Educational Foundations, Leadership and Technology.

Admission

Prospective candidates for the degrees of doctor of philosophy and doctor of education are admitted under the same procedures and requirements outlined in the general regulations elsewhere in this bulletin. A student must be admitted to a specific doctoral program, but admission does not mean admission to candidacy for the degree, which occurs only after satisfactory completion of the general oral examination.

Advisory Committee and Plan of Study

After the student has enrolled in the doctoral program, an advisory committee should be selected by the student, major professor and department head or chair. The advisory committee is responsible for developing the student's Plan of Study and conducting the doctoral general and final examinations. It should consist of at least three members of the Graduate Faculty. At least two, including the major professor, must be members of the Graduate Faculty at Level Two. The formal appointment of the advisory committee occurs when the Plan of Study is approved by the Graduate School.

The Plan of Study should be prepared by the student and the advisory committee and filed with the Graduate School as soon as feasible. It should not be delayed beyond the second semester of doctoral work. The Graduate School recognizes that changes may be warranted, and a form is available for amendments as required by student needs, research interests and course availability.

Residency Requirement

Resident, on-campus study is the foundation for research-based graduate degree programs at Auburn University. Any graduate student enrolled in a degree program culminating in a thesis or dissertation must directly engage in research with the major professor, must have access to the research tools needed for the research activity, must be immersed in the culture of graduate education, must engage in the professional activities of the discipline, and must complete the research activity in a reasonable period of time. Graduation requires the major professor to certify compliance with these requirements.

General Doctoral Examination

A general examination, often called the Preliminary examination, is required of all applicants for the degrees of doctor of philosophy and doctor of education. It consists of written and oral testing by the student's advisory committee in the student's major and minor. The written portion of the examination does not require approval in advance by the Graduate School. The oral portion, however, does require such approval. Arrangements for the oral examination must be made by application to the Graduate School at least one week in advance of the examination. The primary purpose of the general examination is to assess the student's understanding of the broad body of knowledge in a field of study. The examination also affords the advisory committee an opportunity to review the student's proposed research and understanding of research methods and literature in the chosen field. If the general examination reveals deficiencies in any of these areas, the advisory committee may recommend remedial work, re-examination, or discontinuation of doctoral study.

The general oral examination should be conducted immediately after the successful completion of the written examination and well before the final examination. At least one complete semester (preferably more than one) must intervene between the general oral and final examinations. The two examinations thus cannot be taken either in the same semester or in consecutive semesters. Some departments have specific requirements for conducting these examinations, and the student should become familiar with these. Successful completion of the oral examination requires unanimous support of the student's advisory committee. If the general oral examination is failed, a re-examination may be given on recommendation

of the committee and approval by the dean of the Graduate School. Further examinations require exceptional circumstances and approval by the Graduate Council.

The student becomes a candidate for the degree on successful completion of the general examination.

Time Limit

Upon admission to candidacy, the student has four calendar years to complete all remaining requirements for the doctoral degree. If unable for any reason to complete the requirements on time, the student may petition the dean of the Graduate School for a maximum of a one year extension. Students failing to complete the degree in the allotted time revert to the status of an applicant and must petition the dean of the Graduate School to retake the general oral examination.

Final Examination

After the first draft of the dissertation has been completed and has been approved by the student's advisory committee, it is submitted to the Graduate School. An outside reader (representing the university's graduate faculty and the Graduate School) will be appointed to review the dissertation. However, the student's advisor may request appointment of the outside reader at any time rather than waiting until after the dissertation is drafted. When the Graduate School has approved the dissertation, the student may apply for the final examination on a form obtained from the Graduate School. The application must be filed with the Graduate School at least one week in advance of the final examination. The examination is administered by the student's advisory committee. The representative of the university's graduate faculty, the outside reader, also attends and participates. The examination, which generally is oral but may be both oral and written, includes the major and minor fields and a defense of the dissertation. Successful completion requires unanimous support of all members of the committee, including the outside reader. Any member of the Graduate Faculty may attend.

If a student fails the final examination, a re-examination may be given on recommendation of the advisory committee and approval by the dean of the Graduate School. Further examination requires exceptional circumstances and approval of the Graduate Council. In addition to successful completion of all examinations, final copies of the dissertation must be submitted to the Graduate School before the degree is conferred (see Graduate School calendar for the deadline).

Summary of Procedures for Doctoral Degree Programs

The student should:

1. Obtain application forms from the Graduate School and apply by submitting all required materials to the Graduate School by the deadlines published in this bulletin. The Graduate School forwards the application to the appropriate departmental screening committee. The department head or chair then makes a recommendation to the dean of the Graduate School, who sends a letter notifying the applicant of the decision.
2. Apply for an assistantship, if applicable, through the department involved.
3. Become familiar with the requirements for the doctoral degree as published in this bulletin.
4. Consult with the departmental advisor and become familiar with departmental procedures.
5. Plan a schedule of study for the first semester with advisor.
6. Submit a proposed schedule for fulfilling the residency requirements.
7. Acquire necessary forms at the Graduate School or on the Web at www.grad.auburn.edu.
8. Establish an advisory committee through the major professor and department head or chair. Official appointment of the advisory committee occurs when the Plan of Study is approved by the Graduate School.
9. Prepare a Plan of Study approved by the advisory committee and department head or chair and submit to the Graduate School.
10. Complete course work, including language requirements, if any, as detailed in the Plan of Study.
11. Arrange for the general written and oral examinations through the advisory committee. After the written examination, schedule the general oral examination at least one week in advance using a form obtained from the Graduate School.
12. Submit the dissertation proposal for approval by the advisory committee and become familiar with *The Guide to the Preparation and Submission*

of Theses and Dissertations, available at www.grad.auburn.edu or the University Bookstore.

13. Request graduation check in the Graduate School no later than the last day of the semester (graduation day) prior to the semester of graduation.
14. Register for at least one course the semester of graduation.
15. Prepare dissertation and submit a committee-approved first draft to the Graduate School for review and approval by the outside reader (representative of the graduate faculty).
16. Study recommendations of the outside reader and make appropriate changes in the dissertation.
17. On approval of the dissertation by the dean of the Graduate School, arrange for final oral examination.

The Doctor of Philosophy Degree

The doctor of philosophy is conferred in recognition of the mastery of a special field of learning as shown by the satisfactory completion of a prescribed course of study and investigation, the successful passing of general examinations covering the major and minor fields, the preparation of an acceptable dissertation reflecting high achievement in scholarship and independent original investigation, and the passing of a final examination on the dissertation and related subjects. The degree is a research degree. It is not conferred merely upon fulfillment of technical requirements, but awarded in recognition of the ability to think and work independently, originally, and creatively in a chosen field. Some departments have special requirements for the degree, and the student will be governed by those, including the ones listed in departmental statements under Courses of Instruction elsewhere in this publication.

Language Requirement

Language requirements for graduate degrees vary with departments. The Department of Foreign Languages offers proficiency courses in a number of languages. The department also offers reading proficiency examinations for those students who wish to demonstrate proficiency without taking a course. Such students must apply to the Graduate School for these examinations by the deadline listed in the Graduate School calendar at the beginning of this bulletin.

Course Requirements

The Graduate School requires a minimum of 30 semester hours of graded (e.g. A, B, C) graduate course work (6000-level and above) beyond the bachelor's degree, and at least 30 semester hours of additional graduate course work which may include un-graded courses, 7990 and 8990. Although there is no limit to the number of hours a doctoral student can transfer, at least 18 hours must be completed as a graduate student at Auburn University. The minimum number of hours in a doctoral degree program is 60 semester hours beyond the bachelor's degree, but some departments require more, and requirements may vary according to a student's background and interests. A maximum of four hours of 7990 (Research and Thesis) from a completed master's program may be counted.

All doctoral students must complete a minimum of 10 hours of 8990. Enrollment in 8990 may take place at any time the student and the advisory committee deem appropriate. During any one semester, the number of hours of 8990 in which the student enrolls should reflect the amount of time being spent on the dissertation and the degree to which university resources are being utilized. Students may enroll, during any one semester, for as few as one hour or as many as 16 hours of 8990. Dissertation students submitting their dissertation, awaiting committee review and approval, or taking their final examination must register for 8990 Research and Dissertation in the semester(s) when these steps in the process take place. The requisite 10 hours of 8990 should be included in the Plan of Study. No grade is assigned.

The dean of the Graduate School is authorized to approve alternatives to these course work requirements in exceptional cases and on an individual basis.

Dissertation

A dissertation is required of all candidates for the degree of doctor of philosophy. It shall constitute an original contribution to knowledge. The student conducts the research and prepares the dissertation under the direction of the major professor. Only dissertations prepared according to *The Guide to the Preparation and Submission of Theses and Dissertations*,

available on the Web at www.grad.auburn.edu, are accepted by the Graduate School. Submission of a dissertation is defined as the time at which the first complete draft of such is submitted to the major professor for review. All dissertations must be microfilmed by University Microfilms International of Ann Arbor, Michigan, which publishes the abstract in Dissertation Abstracts. The student is required to pay for this service. Auburn University reserves the right to make copies of the dissertation, but the student retains all publication rights. Effective summer 2005, all dissertations must be published electronically through AUETD.

The Doctor of Education Degree

The doctor of education is a professional degree conferred in recognition of ability and achievement in some special field or fields of education. This is shown by satisfactory completion of a prescribed course of study, application of scientific principles in classroom teaching, administration, the supervision of instruction, or other aspects of educational programs; preparation of a dissertation demonstrating ability to investigate an education problem with originality and independence of thought; successful completion of examinations showing a satisfactory grasp of a field of specialization and its relation to allied subjects; and recognized leadership in a specialty as shown by at least three years of successful experience.

Course Requirements

The major is divided into general professional education, area of specialization and other approved courses. General professional education includes courses in such areas as research methodology and statistics; evaluation of learning, individuals, or programs; human behavior, development, or learning; and social or political perspectives on education. The College of Education requires a minimum of 30 semester hours of graded (e.g., A,B,C) graduate course work (6000-level and above) beyond the bachelor's degree, at least 18 hours of which must be completed at Auburn University. A doctoral student must also complete 30 semester hours of additional course work (may include ungraded courses, 7990 and 8990). However, some programs require more, and requirements may vary according to a student's background and interest. A maximum of 4 hours of 7990 (Research and Thesis) from a completed master's program may be counted).

All doctoral students must complete a minimum of 10 hours of 8990. Enrollment in 8990 may take place at any time the student and the advisory committee deem appropriate. During any one semester, the number of hours of 8990 in which the student enrolls should reflect the amount of time being spent on the dissertation and the degree to which university resources are being utilized. Students may enroll, during any one semester, for as few as one hour or as many as 16 hours of 8990. The requisite 10 hours of 8990 should be included in the Plan of Study. No grade is assigned.

The dean of the Graduate School is authorized to approve alternatives to these course work requirements in exceptional cases and on an individual basis.

Dissertation

A dissertation is required of all candidates for the degree of doctor of education. It shall be a critical study of a significant education problem, an original work in a significant field of education, or a creative work involving new and original procedures for the improvement of education. The student conducts the research and prepares the dissertation under the direction of the major professor. Only dissertations prepared according to *The Guide to the Preparation and Submission of Theses and Dissertations*, available on the Web at www.grad.auburn.edu, are accepted by the Graduate School. Submission of a dissertation is defined as the time at which the first complete draft of such is submitted to the major professor for review. All dissertations must be microfilmed by University Microfilms International of Ann Arbor, Michigan, which publishes the abstract in Dissertation Abstracts. The student is required to pay for this service.

Graduate Degrees Offered

Accountancy - MAc

The master of accountancy is a professional non-thesis degree program. Criteria for admission and degree requirements are established by the School of Accountancy. This program is available to individuals with a four-year degree from an accredited institution and a strong background

in the fundamentals of business and accounting education.

Requirements for the MAc include 30 semester hours of course work including a capstone course (ACCT 7980/7986) and a four and one-half day on-campus residency. The curriculum offers students the flexibility to tailor the program to meet their specific career objectives. Students take only four core courses and choose three accounting electives and three business electives. The MAc degree can be earned as a traditional, on-campus student or through the video-based outreach program.

Information concerning specific requirements may be obtained by visiting www.mac.business.auburn.edu or contacting the Director of Graduate Programs, School of Accountancy, at mac@auburn.edu or (334) 844-6207.

Aerospace Engineering - MAE., MS, PhD

Graduate study in aerospace engineering leads to the degrees of master of science, master of aerospace engineering and the doctor of philosophy. The graduate program prepares students for careers in the aerospace industry, in government laboratories and in academia. Studies for the PhD also are designed to produce research scholars.

Applicants should have a bachelor's degree in aerospace engineering or its equivalent from an institution of recognized standing, plus satisfactory GRE scores. Degrees in mathematics, physics and certain other engineering disciplines may also be appropriate for entrance into the graduate program. Applications must be approved by the department's committee on graduate study.

For the master of science, the student must complete an approved program of at least 30 credit hours in aerospace engineering or closely related supporting subjects at the 6000 level or above. The master of science degree requirements include the completion of a thesis under the supervision of a major professor and an advisory committee.

The master of aerospace engineering is a non-thesis degree for which the student must complete an approved program of at least 33 hours of course work at the 6000 level or above. A suitable project in aerospace engineering, culminating in a final written report approved by the student's advisory committee, may be substituted for three credit hours of course work. An oral presentation is also required for the MAE degree.

For both the MS and MAE degrees, at least half of the required credit hours must be completed in aerospace engineering courses.

For the doctor of philosophy degree, the student must complete a minimum of 60 credit hours beyond the bachelor's degree. A plan of study will be arranged on an individual basis and students may elect to specialize in the general areas of aerodynamics, computational fluid dynamics, control theory, flight dynamics, orbital mechanics, propulsion, structures or structural dynamics. A written qualifying examination and a general doctoral examination, with both written and oral parts, are required of all doctoral candidates. An oral defense of the doctoral dissertation is also required of each student.

There is no language requirement for the master's or PhD degrees.

Agricultural Economics & Rural Sociology - MS, MAg Applied Economics - PhD

Graduate degrees in the Department of Agricultural Economics and Rural Sociology (DAERS) include the master of science and master of agriculture in agricultural economics or rural sociology, as well as the applied economics PhD.

Admission to any masters program requires a related bachelors degree from an accredited institution with 15 semester hours in related courses including economics, sociology, statistics, or related subjects accepted by the Graduate Committee.

The MS in agricultural economics requires a minimum of 30 semester hours of graduate credit with up to 6 hours of thesis research. At least 20 hours must be in DAERS for the major and the remaining 6 may be in closely related areas. There is a non-thesis option with 36 hours of courses. The program of study, including course work and thesis, will be planned in a field of interest including agricultural marketing, production economics, markets and prices, resource economics, environmental economics, agricultural finance, agricultural policy, international economics, or farm management.

Graduate study in rural sociology in either the MS or MA degree is available through the interdepartmental graduate program involving rural sociologists from DAERS as well as sociologists and anthropologists from the Department of Sociology, Anthropology, and Social Work and the Department of Sociology at AUM. More information can be found in the Interdepartmental Programs.

The master of agriculture in either agricultural economics or rural sociology requires 32 graduate credit hours, 18 in the major, as approved by the advisory committee. A final oral examination is given by the advisory committee.

The MBA in agribusiness or natural resources and environmental management is offered in coordination with the College of Business. Requirements include 36 graduate credit hours with 24 hours in business and 12 hours in agricultural economics or a closely related area approved by the director of the MBA program and the major professor in DAERS.

The Applied Economics PhD involves faculty in the Department of Economics and the School of Forestry. Students must complete 42 credit hours beyond a masters degree or 60 hours beyond a bachelors degree, plus at least 10 hours of dissertation research. Students must also pass written preliminary examinations in microeconomics, macroeconomics, and econometrics. There is an oral examination on the field and proposed dissertation research, and a final oral defense of the dissertation.

Agronomy and Soils - MS, MAg, PhD

Graduate training in this department enables outstanding students to achieve a high level of scholarly attainment in the soil, crop and environmental sciences. Within these broad areas, research training and experience may be gained in the specialized fields of soil fertility and plant nutrition; soil chemistry; soil genesis, morphology and classification; soil mineralogy; soil physics; soil microbiology; plant breeding and genetics; weed science; forage, fiber and grain crop production; crop ecology; environmental quality; and turf management.

There is no specific schedule of courses for graduate students in this department. Candidates for advanced degrees should have adequate training in basic sciences. The Graduate Studies Committee evaluates each applicant's record and determines prerequisite deficiencies. Qualified students lacking prerequisite subjects can be admitted, but will be required to complete course work to satisfy deficiencies. After clearing pre-requisites, the course of study is determined by the student and advisory committee. Students are encouraged to take courses offered by other departments, especially those offered in chemistry, entomology, plant pathology, plant physiology, physics, botany, statistics, zoology, and horticulture.

There is no foreign language requirement.

Three degrees are offered: 1) master of science (MS), earned only under the thesis option; 2) master of agriculture (MAg) earned under the non-thesis option; and 3) doctor of philosophy (PhD), which requires a dissertation. The department also participates in the interdisciplinary minor in environmental studies.

Graduate students in a program requiring a thesis or a dissertation will register for at least one hour of AGRN 7990 or AGRN 8990 per semester. Research Associates and similar classifications who also are graduate students are exempt from this requirement but must complete 10 hours of 7990 in the master's program or 20 hours of 8990 if in a PhD program.

Anatomy, Physiology and Pharmacology

(See Biomedical Sciences)

Animal Sciences - MS, MAg, PhD

Graduate study in animal sciences is directed toward the master's and doctoral degrees. The master of agriculture (MAg) is offered as a non-thesis degree and prepares students for careers in secondary education, Cooperative Extension and agribusiness. Graduate programs leading to the MS and PhD degrees provide advanced education and technical training in preparation for careers in public and private sectors related to animal science and technology, food science and technology, animal biotechnology, agribusiness and university-level research and education. Areas of specialization include animal nutrition, biochemistry and molecular biology, microbiology, behavior, growth biology, meat science and muscle biology, quantitative genetics and reproductive biology. Interdepartmental minor programs in cell and molecular biosciences, ecology and environmental sciences are also available.

The MAg degree requires successful completion of a minimum of 30 credit hours, 21 of which must be in the agricultural or related sciences. Additional courses may be required for individual students.

Admission to the MS degree program requires that student have the bachelor's degree or evidence satisfactory progress toward attainment of the bachelor's degree in animal sciences or a related area. Applicants lacking suitable preparatory course work in the basic sciences will be required to correct deficiencies by satisfactorily completing additional courses. The MS requires a minimum of 30 credit hours of graduate work,

including at least 21 credit hours in the major field of study. The remainder may be in a minor area selected by the student and upon approval by the advisory committee. A research-based thesis is required.

Admission to the PhD degree program usually requires that the student have a master's degree from a recognized graduate program. However, evidence of exemplary potential may be considered as a criterion for admission with a bachelor's degree. The doctoral program emphasizes original, scholarly research and includes significant advanced course work. The PhD degree requires a minimum of 60 credit hours beyond the bachelor's degree and a dissertation describing original research. There is no foreign language requirement, but knowledge of a foreign language may be recommended by the student's advisory committee.

All graduate students receiving departmental assistantships are expected to be engaged in service to the department's research and education programs as deemed appropriate by the academic advisor and department head. All MS and PhD students must register for at least one credit hour of thesis or dissertation research each term. Classified (FLSA-exempt) research associates holding full admission status in the Graduate School for work toward a graduate degree are exempt from this requirement, but must complete 10 hours of thesis research in a MS program or 20 hours of dissertation research in a PhD program following completion of a master's degree. A PhD degree program undertaken by classified (FLSA-exempt) research associates but not preceded by a master's degree must include 30 hours of dissertation research credit.

Audiology Program – AuD

The Department of Communication Disorders offers a first professional degree program of study, the doctor of audiology (AuD) degree. The program is a cooperative program with the Department of Communication Disorders at Auburn University Montgomery. The doctor of audiology (AuD) program is designed to provide students with academic and clinical practicum experiences that will meet or exceed the requirements of the American Speech-Language-Hearing Association (ASHA) for the Certificate of Clinical Competence in Audiology (CCCAUD).

The academic and clinical components of the doctor of audiology program interact in a logical manner as the curriculum progresses over a four year period. A total of 129 hours are required for the degree. The early portion of training is largely academic and the later portions involve mostly applied clinical work. Thus, as the program progresses, the balance of academic and clinical work changes substantially.

During the first two years of the program the emphasis is largely on academic preparation for clinical work. This begins with the bases of clinical audiology which includes courses in research methods, neurology, hearing science, and counseling. In the second year of the academic program the student is exposed to coursework in auditory disorders and clinical methods. Courses include hearing disorders, hearing instruments, aural rehabilitation, central auditory processing disorders, auditory brainstem response, electronystagmography and pediatric audiology. In the third year of the program, academic courses are largely involved with advanced seminars on current issues in clinical practice and the completion of an applied clinical research project or "capstone experience." During this third year of the program students are engaged in a series of intensive clinical internships at local off-campus clinical settings. Students must intern at three different clinical settings during the third year and they return to campus to participate in seminars and work closely with their major professors on their capstone project.

In the final year of the program students will participate in a clinical residency during which they will work full-time for a period of nine months. Clinical residencies may be done at any facility in the United States where a certified audiologist agrees to supervise the student within ASHA guidelines.

Biological Sciences - MS, PhD

The Department of Biological Sciences offers graduate training leading to the MS and PhD degrees in biological sciences; a non-thesis master's degree is optional. Candidates for advanced degrees should have an undergraduate degree in an appropriate area from an accredited institution, with adequate training in biology, chemistry, physics and mathematics. Qualified students lacking pre-requisite subjects can be admitted, but may be required by the departmental graduate studies committee to make up the pre-requisites. A satisfactory score on the general GRE is required (suggested minimums of 500 on verbal and quantitative tests).

A major of at least 30 and 60 semester hours may be taken for the MS and PhD degrees, respectively. MS and PhD students must present at

least one departmental seminar on their research during the semester of their oral or final examination. There is no foreign language requirement.

Interdisciplinary minors may be taken in biochemistry, cell/molecular biology, ecology, environmental studies and plant, animal, or microbial molecular biology.

Biosystems Engineering - MS, PhD

Graduate study in the Department of Biosystems Engineering may lead to the master of science or doctor of philosophy through cooperative relationships with other units at Auburn University. Depending on the area of research interest, the student may pursue an MS or PhD degree in chemical engineering, civil engineering or mechanical engineering with an emphasis on a biosystems engineering problem. All applications are reviewed by graduate admissions committees in biosystems engineering and chemical, civil, or mechanical engineering. Applicants must meet admission requirements of the respective cooperating department (i.e. either chemical, civil, or mechanical engineering) and they must indicate at the time of application submission that they are interested in working on a biosystems engineering research problem. Students will be assigned an advisor in biosystems engineering that will serve as the co-chair of their supervisory committee. The student and committee co-chair will develop a supervisory committee composed of faculty from Biosystems Engineering and at least one faculty member from the cooperating department. The plan of study developed by the student in consultation with the supervisory committee will meet the requirements of the particular graduate program (i.e. Chemical, Civil, or Mechanical Engineering). In addition, it is expected that the plan of study will contain courses specifically focused on biosystems engineering and related to the research area. Additional details about the requirements, assistantships, and policies for graduate study in the Biosystems Engineering department are available on the Web at www.eng.auburn.edu/bio.

Building Science - MBC

The McWhorter School of Building Science offers the master of building construction.

The McWhorter School of Building Science's non-thesis master of building construction program provides its students with an unparalleled educational experience. From conceptual idea to post-occupancy of buildings, the degree content offers a practical and industry-oriented study of the interdisciplinary and collaborative processes involved in the design, construction, financing and management of the built environment.

For students holding an accredited undergraduate degree in construction, the curriculum consists of 35 semester hours of academic credit, including a core of BSCI graduate courses, taken over a period of three academic terms beginning in the fall of each year.

Students with undergraduate degrees in areas other than construction will embark on their graduate careers here at Auburn beginning with a series of five foundation courses commencing the summer term prior to fall admission. Upon successful completion of these classes, their course of study will merge with the other graduate students during fall semester, and may be completed in four academic terms, for a total of 50 hours.

Admission to the master of building construction is competitive, and enrollment is limited. The admissions committee considers GRE scores, undergraduate grade-point average, educational background, letters of recommendation, prior construction industry experience, and other relevant information.

Business Administration - MBA, MS, PhD

Graduate programs in Business are fully accredited by the Association to Advance Collegiate Schools of Business (AACSB) and include the master of business administration, the master of science (in economics, finance, or human resource management) the master of accountancy, the master of management information systems, the master of science and the doctor of philosophy in management.

Application for admission to graduate programs in Business should be made directly to the Graduate School, with follow-up materials (including letters of recommendation and essays) as required to the specific program. The application should be accompanied by test scores on the Graduate Management Admission Test (GMAT), except for applications to the MS in Economics which should be accompanied by test scores on the Graduate Record Examinations (GRE). Supplemental application forms are also required for the MBA program.

Chemical Engineering - MChE, MS, PhD

The Chemical Engineering Department offers graduate programs leading to the degrees of master of science and doctor of philosophy. Specialized courses and research training are provided in a wide variety of specialties within chemical engineering or related interdisciplinary areas. Some of these specialties include: surface science, biochemical engineering, catalysis, pulp and paper engineering, environmental engineering, waste conversion, computer-aided process design and simulation, novel bioseparations systems, chemical kinetics and reactor design, biomedical engineering, process control and optimization, thermodynamics, advanced energy research, mass and energy transfer, electrochemical engineering, polymer engineering, interfacial phenomena, process synthesis, material science, nanotechnology, and space science. Additionally, individualized interdisciplinary programs which cross the traditional departmental boundaries are encouraged. These may include collaborative work in chemistry, engineering disciplines, physics, mathematics, agriculture, forestry, biology, microbiology, genetics and health sciences or other areas.

The applicant must hold a bachelor's degree or its equivalent from an institution of recognized standing and must have the pre-requisite undergraduate experience in areas of study relevant to the proposed graduate program. If the applicant's undergraduate degree is other than chemical engineering, an individualized plan of study will be developed to impart the critical skills inherent in the bachelor's chemical engineering program. All applicants will be evaluated on an individual basis by the Chemical Engineering Graduate Committee.

The master of science may be earned only under the thesis option. There is no language requirement for this degree. A total of 30 semester hours of work is necessary, including formal courses, seminars and directed reading. Students select three of the following core courses: CHEN 7100, CHEN 7110, CHEN 7200 and CHEN 7250. Each student may include six hours of research and thesis as a part of the 30 hours.

The master of chemical engineering, a non-thesis degree oriented toward engineering design and practice, is also offered. It has no residency requirement and can be earned entirely through the Engineering Outreach Program. The degree requires 32 semester hours with a minimum of 16 at the 7000 level. In-depth understanding is provided through a minimum of 21 graduate course hours in the major, chemical engineering, plus eleven graduate course hours in technical electives from engineering, science, mathematics, or business which are tailored individually to the student's background and interests. There are three core courses: CHEN 7100, CHEN 7200 and CHEN 7250.

The doctor of philosophy provides for advanced course work and emphasizes original, creative research. A dissertation embodying the results of this research represents the major portion of the requirements for this degree. A minimum of 60 semester hours of graduate work past the bachelor's degree is necessary. Each student may include 10 hours of research and dissertation as a part of the 60 hours.

Four calendar years beyond the bachelor's degree or three past the master's degree usually are needed to complete the PhD

The written General Examination is based on the evaluation of performance in core graduate courses: CHEN 7100, CHEN 7110, CHEN 7200, CHEN 7250.

There is no language requirement for the PhD

Chemistry and Biochemistry - MS, PhD

Graduate study in chemistry leads to the M. S. and PhD Degrees. Entering students must take four of the five required core courses: CHEM 7100, CHEM 7200, CHEM 7300, CHEM 7500 and BCHE 7200, with the consent of their advisor. By the end of the second semester, graduate students must submit a plan of study which details the courses which will be taken. This is done with the assistance of the major professor and with the consent of the student's advisory committee. For the MS the plan of study will consist of a minimum of 30 hours, including the core courses listed above (12 hours); CHEM 7990 (4 hours), CHEM 7750 (1 hour), CHEM 7950 (4 hours). For the PhD 60 hours of courses must be completed. These must include the core courses listed above (12 hours), CHEM 8990 (10 hours), CHEM 7750 (2 hours), CHEM 7950 (6 hours). The rest of the courses usually are taken in the major area. Directed Study, CHEM 7930, may be taken for a maximum of 15 hours. MS students must pass three cumulative examinations; PhD students must pass 6 cumulative exams and an oral general examination. All graduate students must orally present their research and defend their theses or dissertations in the final oral examination.

Civil Engineering - MCE, MS, PhD

The Department of Civil Engineering offers graduate-level instruction and research programs leading to the degrees of master of civil engineering, master of science and doctor of philosophy. The objectives of these programs are to provide qualified students an opportunity for advanced training and specialization and to enable them to gain experience in conducting engineering research and in the interpretation and communication of their findings. The department offers programs in construction engineering and management, environmental engineering, geotechnical engineering, hydraulics/hydrology, pavements and materials, structural engineering and transportation engineering. Course work may be taken outside the department in supportive disciplines such as applied statistics, building science, computer science or mathematics, provided there is justification for doing so.

All applicants must have earned a baccalaureate degree in civil engineering - BCE, BS or BSCE - or a closely related area and must have completed such formal training as to warrant advanced study in the major and minor fields. There is no formal foreign language requirement.

A thesis is required of all candidates for the MS. A minimum of 30 semester hours of graduate-level course credit must be completed satisfactorily. At least six of the 30 hours must be in CIVL 7990 and at least 24 hours must be in graduate course work other than CIVL 7990. Candidates must pass a comprehensive examination covering the course work, research and thesis.

Admission requirements for the master of civil engineering are basically the same as those for the MS. The program consists of a minimum of 30 semester hours of graduate-level courses. At least three of the 30 hours must be in CIVL 7980 and at least 27 hours must be in graduate course work other than CIVL 7980. Candidates must pass a comprehensive examination covering the course work and the engineering project involved.

PhD program applicants must have earned the master's degree in civil engineering or a related area, or must have completed at least a year of study at the graduate level. Performance in either case must have been of such quality as to justify admission to the doctoral program.

The PhD is conferred in recognition of mastery of a specific field of knowledge and a contribution to that engineering discipline through the doctoral dissertation. The degree is a research degree, requiring not only completion of certain technical requirements but proof of the candidate's ability to work independently within an engineering research environment.

A doctoral student must complete a written comprehensive examination with a follow-up oral critique administered by the student's advisory committee. The examination may not be taken sooner than one year after the student begins doctoral course work. Additional course work may be prescribed to strengthen deficiencies where examination results indicate a lack of significant academic preparation or the student may be denied the right to continue in the program. One retake may be permitted but no earlier than one year after initial failure. Upon successful completion of the examination, the student becomes a candidate for the PhD.

After successfully completing the comprehensive examination, the doctoral candidate will defend the selected dissertation topic, which must represent a significant contribution to state-of-the-art knowledge. This may be included in the oral critique of the comprehensive examination if the advisory committee agrees. Once the committee approves the research topic, the doctoral candidate may proceed with the research and dissertation. When it is completed, the candidate will defend the completed dissertation before the advisory committee and the outside reader appointed by the Graduate School.

Communication - MA

The graduate program offers the master of arts.

Applicants must hold bachelor's degrees from accredited institutions. The MA-thesis requires 31 hours beyond the bachelor's degree, including a thesis. The MA-non-thesis requires 30 hours beyond the bachelor's degree, including appropriate field experience, but does not require a thesis. Students entering either program without a bachelor's degree in communication must earn an additional 9 credit hours at the graduate level.

The Communication major requires 31 semester hours in Communication for the MA-thesis and 30 for the MA non-thesis, including COMM 7000, COMM 7010, and COMM 7020. Students must pass a written qualifying examination covering COMM 7000, COMM 7010, COMM 7020 at the completion of these three courses to continue their program. All students must pass comprehensive examinations.

There is no foreign language requirement.

Communication Disorders - MCD, MS

The Department of Communication Disorders offers a program in Speech-Language Pathology which is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA).

Two degree options are available; neither has a language requirement. The master of science (MS) requires a minimum of 41 hours of graduate course work, including CMDS 7990, Thesis. CMDS 7920, Field Experience, is optional, depending on clinical experience. The master of communication disorders (MCD) requires a minimum 43 hours of graduate course work and appropriate field experience. This is a non-thesis degree but it does require the passing of a comprehensive examination.

Master's-level candidates who enter the communication disorders programs having majored in another field at the undergraduate level must make up certain pre-requisites. This is to ensure an adequate background for the graduate-level courses and that the student will meet the academic requirements for ASHA certification and state licensure. Generally, 10 such courses are prescribed by the student's advisor.

Enough latitude exists that a plan of study may be designed according to the student's career interests; however, the curriculum planned must conform with academic and practicum requirements for ASHA certification and Alabama licensure. Students then are prepared for careers in school systems, clinics, hospital/rehabilitation centers, physicians' offices, private practice and for pursuing the doctoral degree.

Community Planning - MCP

Graduate study in the community planning degree program leads to the professionally accredited master of community planning (MCP). The program is devised to prepare students with diverse backgrounds for careers in the practice of community planning in both the public and private sectors. The field of community planning demands creativity, technical competence and procedural sensitivity in the search for better communities. Graduates must be skilled at describing and analyzing urban processes and conditions; at creating and evaluating alternatives to shape future growth and development; and at devising and recommending appropriate mechanisms for the implementation of their proposals.

The program offers joint degree options with architecture, landscape architecture and public administration (each of which requires a separate application). Students may complete a minor in Economic Development. Entering students must hold a degree from an accredited institution and have acceptable GRE scores. Students will normally complete the required work in two academic years. Studies include a core sequence of required courses, required seminars on focused topics within the field, directed electives, and an individual synthesis project or comprehensive examination undertaken during the final year.

Computer Science and Software Engineering - MSwE, MS, PhD

Graduate study in the Department of Computer Science and Software Engineering (COMP) leads to the non-thesis master of software engineering (MSwE) or research oriented master of science (MS) and doctor of philosophy (PhD) degrees in computer science and software engineering. All applications are reviewed by the COMP Graduate Admissions Committee.

To enter the MS or the MSwE, the student must hold a bachelor's degree or its equivalent from an institution of recognized standing. The student also must have the pre-requisite undergraduate experience in areas of computer science and/or software engineering. If the student has deficiencies in the pre-requisites, he or she will be required to take appropriate undergraduate courses. All applicants must submit Graduate Record Examination scores for the general test.

The MS program requires 30 semester credit hours, including six credit hours for research and thesis. The MSwE program requires 33 semester credit hours, including three credit hours for the software engineering design project. There is no language requirement.

For the PhD program, the applicant must hold a master's degree or have successfully completed a minimum of one academic year of graduate study, from an institution of recognized standing in an area related to the proposed doctoral study. All applicants must submit GRE scores for the general test. The student will take a written qualifying examination soon after gaining admission to the program. Additional examinations, as described in the general Graduate School requirements, are given throughout the program, culminating with the defense of the dissertation. There is no language requirement for the PhD. The program typically includes at least one academic year of course work and one year of

research beyond the master's level. The PhD program requires a minimum of 66 semester credit hours of course work beyond the bachelor's level, including 18 hours of research and dissertation.

Consumer Affairs - MS, PhD

Graduate study in the Department of Consumer Affairs, College of Human Sciences, leads to the master of science and the doctor of philosophy. Major focus areas are apparel design or merchandising, interiors, and textiles. The department emphasizes integration of basic and applied knowledge from multiple fields to enhance professional skills for careers in textile and apparel product development and design; production management; retail management; merchandising in textile and apparel retail or design firms; design of interior spaces; quality control; and college teaching and research. A foreign language is not required. Entrants with limited undergraduate backgrounds in their chosen area may need to complete some undergraduate courses. Graduate teaching and research assistantships are available.

The MS in Consumer Affairs - Apparel or Interiors offers a Thesis and a Non-Thesis Option. Individually designed focus areas incorporate courses in Consumer Affairs and other departments. Designated specialization tracks include consumer behavior; forecasting; marketing; production management; retail management; interior design; international retailing; design and product development; and entrepreneurship. Students are encouraged to complete an internship with industry. At least 21 semester hours must be in apparel, interiors, or consumer-related courses.

The Thesis Option requires a minimum of 30 semester hours, including at least four hours of CAHS 7990 Research and Thesis. Required courses include CAHS 7050, CAHS 7950, CAHS 7990 (2 hour minimum each semester during thesis research), a course in statistics at the graduate level, plus three additional hours outside the department.

The Non-thesis Option requires a minimum of 36 semester hours, including CAHS 7050, CAHS 7950, CAHS 7980, and a course in statistics at the graduate level plus three hours outside the department. A Final Comprehensive Written Exam is required.

A joint PhD in Integrated Textile and Apparel Science is offered through the Department of Consumer Affairs, College of Human Sciences and the Department of Polymer and Fiber Engineering, Samuel Ginn College of Engineering (See Interdepartmental Graduate Degrees). The focus is on the integration of textile science and apparel science within a research based product management approach for application in the global textile industrial complex.

The PhD in Integrated Textile and Apparel Science requires a minimum of 30 semester hours of graded graduate level courses at the 6000 level or above; at least 18 of these hours must be completed at Auburn University. At least 30 additional hours of graduate level course work (6000 level or above) must be completed (may include ungraded 7990 and 8990). A ten-hour core is common to all PhD candidates. Courses include ITAS 7200, 8950, 8960, 8970 and 8990 Research and Dissertation (a minimum of 10 semester hours). Students must register for at least 2 semester hours of ITAS 8990 each semester they are working on dissertation research.

Students select either the Consumer Affairs track or the Polymer and Fiber Engineering track with the major professor in the department selected. Students must pass a written and an oral General Examination after completing course work. A final oral defense of the dissertation is required.

A foreign language is not required. Entrants with limited undergraduate backgrounds in their chosen area may need to complete some undergraduate courses. Graduate teaching and research assistantships are available. Students may apply for admission and/or assistantships in either department. Graduate committees may include faculty from both departments.

Counselor Education, Counseling Psychology, and School Psychology - MEd, MS, EdS, PhD

Master's, specialist and doctoral degrees are offered in the Department of Counselor Education, Counseling Psychology, and School Psychology. Areas of specialization are in School Counseling, School Psychology, Community Agency Counseling, Counselor Education, and Counseling Psychology.

Master's degree programs prepare students for entry-level professional positions as counselors in a variety of human service agencies such as public schools, community mental health centers, drug and alcohol treatment programs and university counseling centers.

The specialist and doctoral degree programs provide advanced

preparation in the delivery of counseling and psychological services and prepare students for education, supervisory and leadership roles in schools, universities, and human service agencies. The doctoral programs also require that students demonstrate skills to independently conduct research through the dissertation.

Following completion of course work, students in all programs must pass a comprehensive written and/or oral examination covering all program content. All departmental programs require extensive extramural internships in placements related to the area of professional preparation.

The master's degree programs in School Counseling and Community Agency Counseling and the PhD program in Counselor Education are accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). The doctoral and specialist degree programs in School Psychology and the master's degree program in School Counseling are approved by the Alabama State Department of Education. The Counseling Psychology program, accredited by the American Psychological Association, is a doctoral program culminating in the PhD degree.

To be considered for admission into any of the department's programs, an applicant must submit an application directly to the Graduate School (www.grad.auburn.edu/). Applicants must also submit a program application available at www.auburn.edu/coun, using the link to the program of interest. Provided that general Graduate School admission requirements are met, program admissions committees consider all submitted materials and, for doctoral programs, determine whether to issue an invitation for an admissions interview. No interview is required for admission to masters' programs. All admissions decisions for departmental programs occur in the spring semester; initial enrollment for departmental programs occurs only in the fall semester. Consult the departmental website for specific application deadline dates, as these vary by program.

Credit hour requirements for degree programs in the department typically exceed the Graduate School minimum. Graduation requirements for the master's degree in School Counseling and specialist degree in School Psychology include a passing score on the Alabama Prospective Teacher Testing Program's appropriate Praxis II subject assessment.

Specific details about requirements, assistantships, and policies for each of the programs are contained in materials available from the department and at www.auburn.edu/coun.

Curriculum and Teaching - MEd, MS, EdS, EdD, PhD

Graduate programs in the Department of Curriculum and Teaching prepare teachers and leaders in early childhood, elementary, middle school, secondary, English for speakers of other languages, music, reading, and career and technical education. Secondary education teaching fields are English language arts, foreign languages, mathematics, science, and social science. Career and technical education teaching fields are agriscience and business. Graduate study leads to master of education, master of science, specialist in education, doctor of education, and doctor of philosophy degrees and to fifth- and sixth-year certification in Alabama.

Admission to graduate programs in the Department of Curriculum and Teaching is competitive in respect to past achievement, scholarship potential, and professionalism. Those seeking admission to graduate programs must have a bachelor's or master's degree from an accredited college or university. Admission to doctoral programs requires competitive GRE scores, current resume, statement of purpose, letters of recommendation, and approval by the Department. The typical combined GRE score at the doctoral level is above 1000 with a score of above 450 on each subtest. Admission to the Specialist in Education programs and the master's programs requires competitive GRE scores, letters of recommendation, current brief resume, and approval by the Department. Typically, students admitted to the Specialist in Education degree programs and the master's programs have GRE Verbal Subtest scores above 400 and Quantitative Subtest scores above 400. Admission to traditional master's and Specialist in Education degrees requires proof of appropriate teacher certification. Traditional master's degree programs leading to Alabama A certification require at least 30 semester hours of course work. Plans of study for secondary education majors must include at least 15 hours in their respective teaching fields; plans of study for career and technical education majors must include at least nine hours in their respective teaching fields. MEd and MS options are available for all areas of specialization in the department. MS programs require a thesis; MEd programs do not.

Alternative master's certification programs offer qualified students who hold non-teaching baccalaureate degrees a route to initial teacher certification while simultaneously earning a master's degree. These alternative routes to certification are currently offered in music education, in four secondary education teaching fields (English language arts, foreign languages, mathematics and science), and in two career and technical education fields (agriscience and business). To be eligible for admission to programs, students must have earned a bachelor's degree (or its equivalent) in the appropriate teaching field. Applicants must have a grade-point average of at least 2.5 on all undergraduate work attempted and competitive GRE verbal and quantitative subtest scores. All alternative master's degree certification programs include courses in the teaching field, professional courses, and a one-semester internship. Students must complete a minimum of 40 hours of graduate course work in addition to appropriate undergraduate deficiencies. Full-time graduate students should allow at least four semesters for completing alternative master's degree certification programs. Upon satisfactory completion of alternative master's degree certification programs, students are awarded MEd degrees and are eligible for Alabama A certificates. Entrance into the alternative master's degree certification programs in Secondary Science is highly encouraged for the summer term.

Candidates in alternative master's certification programs are required to participate in the Alabama Prospective Teacher Testing Program including submitting a passing score on each of the Basic Skills Assessments (Applied Mathematics, Reading for Information, and Writing) and a passing score on the appropriate Praxis II subject assessment prior to internship. Graduation requirements for traditional master's programs in Reading Specialist and English for speakers of other languages include a passing score on the appropriate Praxis II subject assessment.

Specialist in Education degree programs require at least 30 semester hours beyond the master's degree, including additional course work in professional education and the teaching field. Candidates must also complete a field project.

Doctor of philosophy programs are offered in early childhood, elementary, secondary English language arts, secondary mathematics, secondary science, secondary social science, music, and reading education. A doctor of education program is offered in career and technical education. All PhD programs require at least 80 semester hours beyond the bachelor's degree; the EdD program in career and technical education requires at least 60 semester hours beyond the bachelor's degree. Research methods and statistics and foundations of education courses are components of all doctoral programs. The remaining hours are divided between the area of specialization and approved support courses. Plans of study for students in secondary education fields must contain at least 30 semester hours of graduate courses in the appropriate teaching fields. Doctoral students must register for at least 10 semester hours of doctoral research while completing a dissertation.

Design-Build - MDB

The Design-Build Masters Program is a progressive three semester graduate program that focuses on the process of integrating design and construction techniques. As architecture and construction moves into the 21st century, forecasts indicate that as much as 75 percent of all building projects will be delivered in some form of collaborative process. Auburn's College of Architecture, Design and Construction is in a unique position to foster collaboration between the major academic disciplines in the college. In this atmosphere, students will study the Design-Build process and work together to solve problems more efficiently, promote trust, reinforce dynamic thinking and become leaders in the Design-Build industry.

The program is geared towards students with diverse backgrounds. Students with degrees in Building Construction, Architecture, Design, Engineering or those with outstanding records in other disciplines are encouraged to apply. In this context-based design-build program, students are expected to research, select, analyze, program, design and construct a comprehensive project. Teams of students construct original designs within the supportive partnership of faculty, communities, local architects and constructors.

Beginning in the summer semester, the three semester program consists of 35 credit hours of courses including the following three hands-on design-build studios: DBLD 7510, DBLD 7520 and DBLD 7530. Other required courses include DBLD 7550, DBLD 7650 and three directed electives. Admission is competitive. For more information, please visit

our Web site at www.cadc.auburn.edu/dbld or contact Ashley Gentry at design-build@auburn.edu.

Because of the complexity of the curriculum and the level in which each semester builds off the previous semester, any student who drops out of the program at any point without completing all three semesters consecutively, will have to re-apply to the program if they wish to continue. If re-admitted to the program, the Director and supporting faculty will have the authority to make the decision whether to grant the student advanced standing based on the individual situation, the course content completed and the specific projects at that time.

Economics - MS

Graduate study in economics leads to the MS degree. The graduate program prepares students for careers in business, teaching, government agencies and advanced study in economics at doctorate-granting institutions. The program permits flexibility to accommodate a range of student goals and concentration in specific areas of economics.

Applicants must hold a bachelor's degree or its equivalent from a recognized institution and present a minimum of 20 semester hours of undergraduate course work in economics, including Principles of Economics, Statistics and Intermediate Economic Theory. Students lacking pre-requisite courses may be required to take more than the 30 hours required for the MS degree. All applicants must submit Graduate Record Examinations scores. Admission to graduate work in Economics shall be determined by the department's Graduate Committee.

The candidate for a master of science may select either a thesis or non-thesis option. Students choosing the thesis option are required to complete at least 24 semester hours of course work in economics at the 6000-level or above, plus six hours of ECON 7990, Research and Thesis, plus the thesis. An oral defense of the thesis is required. There is no language requirement for the MS. The non-thesis option, participation in which must be approved by the Graduate Committee, requires 24 hours of course work in economics at the 6000-level or above, and additional six hours of course work in economics at the 6000-level or above, and passing grades on written comprehensive examinations in Microeconomic Theory, Macroeconomic Theory, and Econometrics. The Graduate Committee has determined that passing an oral exam on this material will be a prerequisite for their approval to participate in the non-thesis option.

Educational Foundations, Leadership and Technology - MEd, MS, EdS, EdD, PhD

Those seeking full admission to graduate programs in the Department of Educational Foundations, Leadership and Technology must have a bachelor's or master's degree from an accredited college or university and must submit Graduate Record Examination scores for verbal, quantitative, and writing subtests. Students who hold master's degrees, A level teaching certification from accredited institutions, a minimum of 3 years successful teaching experience, and have an undergraduate grade-point average of at least 2.75 may apply to take course work leading to K-12 educational administration certification.

The department offers degrees at the master's level in the areas of Adult Education, Library Media, Administration of Elementary and Secondary Education, Administration of Higher Education, and Administration of Supervision and Curriculum. Specialist degrees are also available in Adult Education, Library Media, and Administration of Elementary and Secondary Education. The department offers a doctor of education (EdD) in the areas of adult education, administration of elementary and secondary education, administration of higher education, and administration of supervision and curriculum. A doctor of philosophy (PhD) option is offered in educational psychology with two specializations or emphases from which a candidate may choose: learning and measurement/research.

Masters degree programs require a minimum of 30-33 semester hours, including course work in foundations of education, electives (3-6 hours) and the area of specialization, including a practicum and or internship. Graduation requirements for master's programs in Library Media and Administration of Elementary and Secondary Schools with Educational Administration certification include a passing score on the Alabama Prospective Teacher Testing Program's appropriate Praxis II subject assessment.

Sixth-year programs may result in Alabama AA certification. They require a minimum of 30 hours beyond the master's degree, including EDLD 8940 - Directed Field Experiences, ADED 8980 - Field Project, or EDMD 7940 - Directed Field Experience. Specialists in Education degrees

are not required to complete Alabama AA Certification, however, the EdS degree requirements for the Administration of Elementary and Secondary Education and the requirements for Library Media are similar to the Alabama AA certification programs in each area respectively. Doctoral programs leading to the EdD degree consist of no fewer than 90 semester hours beyond the bachelor's degree. Doctoral students in educational leadership or adult education will complete at least 18 to 24 semester hours in their area of specialization; requirements vary depending upon the area of specialization. The PhD program requires a minimum of 78 hours beyond the bachelor's degree and graduate coursework taken at other accredited institutions will be considered and accepted on an individual basis. Research methods, statistics, and foundations of education are components of all EdD and PhD programs. After coursework has been completed, doctoral students must register for at least 10 hours of dissertation credit while completing a dissertation.

Electrical and Computer Engineering - MEE, MS, PhD

Electrical and Computer Engineering (ECE) offers graduate programs of instruction and research leading to master's and doctoral degrees. Instruction is offered and research facilities are available to support graduate study in control systems, digital signal processing and communications, wireless engineering, electromagnetics modeling and analysis, microelectronics, power systems, digital systems, and computer engineering. Additionally, individualized programs that cross the traditional boundaries of engineering, mathematics and the sciences can be accommodated.

For admission at the master's level, the applicant must hold a bachelor's degree or its equivalent from an institution of recognized standing. Master's degree programs are available to graduates of engineering curricula and, in cases of exceptional academic credentials, to graduates of mathematics and science curricula.

An applicant for admission to the PhD program must hold a master's degree, or have taken a minimum of one academic year of graduate study, from an institution of recognized standing in an area of study related to the proposed doctoral work. An applicant who holds a bachelor's degree in electrical or computer engineering and has exceptional academic credentials may apply for direct admission to the PhD program.

All applicants must submit Graduate Record Examination scores for the General Test, three recommendation letters, a statement of purpose, and a resume. International applicants must also submit scores for either the TOEFL or IELTS exam.

Applications for admission are reviewed by the departmental graduate faculty. Decisions are based upon the applicant's potential for success in advanced-level study as indicated by letters of reference, GRE scores and previous academic achievement.

The MS degree program of study (the thesis option) requires a minimum of 30 semester hours of work, including 4 to 6 semester hours of research and thesis. MS students must spend at least one semester of full-time study in residence. The MEE degree program (the non-thesis option) requires 33 semester hours of work, including a 3 semester hour project. Both masters programs must include courses in at least three of the major research areas in ECE, no more than 3 semester hours of independent study, and a final examination on either the thesis or the non-thesis project.

Students admitted to the doctoral program will take a written qualifying examination soon after entering, covering fundamental undergraduate material in ECE and first-year graduate material in the major area of study. Additional examinations are given throughout the program. The program generally consists of a minimum of 60 semester hours of course work beyond the bachelor's level, including at least 10 hours of research and dissertation. A minor of at least 9 semester hours in a closely related field outside of the major area of study, either within or outside of ECE, is required.

English - MA, MTPC, PhD

The Department of English offers programs leading to the master of arts, master of technical and professional communication, and the doctor of philosophy. The graduate program prepares students for careers in teaching and research, writing, editing, business, and other professions seeking broadly educated individuals skilled in analysis and communication. (In addition, individuals holding a teaching certificate may, with an additional graduate course in Communication, earn Alabama Class A or AA certification under a state-approved Strengthened Subject Matter Option program in English/Language Arts.)

For admission to the MA program, the student must normally have a bachelor's degree from an accredited institution with the equivalent of 24 semester hours of credit in upper-division English courses and satisfactory scores on the general portion of the GRE. Qualified applicants with undergraduate degrees in related disciplines will also be considered. Applicants should also submit three letters of recommendation, a sample of their writing and a statement of purpose. Applicants lacking the required undergraduate courses must typically make up these deficiencies before they can be admitted to the degree program. For the MA, students may select a thesis or non-thesis option. The thesis-option requires a minimum of 30 credit hours, including at least four hours of thesis credit. The non-thesis option requires a minimum of 30 credit hours of course work. With the approval of their advisory committee, students in either option may take up to six hours in a minor field. Special concentrations are possible in creative writing (with a creative thesis in poetry or fiction) and in rhetoric and composition. Students must take a four and one-half- or six-hour written examination over a departmental reading list. Thesis-option students also take a one-hour oral examination over the completed thesis. Students in master's options must demonstrate a reading knowledge of one foreign language.

For admission to the master of technical and professional communication program, the student must normally have a bachelor's degree from an accredited institution, satisfactory scores on the general portion of the GRE, and excellent writing skills. The MTPC requires a minimum of 30 credit hours, consisting of four required courses (ENGL 6000 Technical and Professional Editing, ENGL 6010 Document Design in Technical and Professional Communication, ENGL 6030 Topics in Technical and Professional Communication, and ENGL 7010 Technical and Professional Communication: Issues and Approaches), nine hours of elective courses in English approved by the student's advisory committee, and nine hours in a coordinated minor approved by the student's advisory committee. Students must compile a portfolio of work accepted by the student's advisory committee and pass an oral examination over the major and minor.

For admission to the PhD program, the student must normally have a master's degree in English and satisfactory scores on both the general portion of the GRE and the subject test. Applicants should also submit three letters of recommendation, a sample of their scholarly writing and a statement of purpose. The PhD requires a minimum of 60 credit hours beyond the BA, including 10 hours of dissertation credit. Students with an MA in English from other institutions usually need only eight or nine additional courses. After completing course work, students take general doctoral examinations, both written and oral, over three related areas. These areas might include historical periods, a genre, a major author, language and linguistics, or a problem in literary theory, British or American literature. There are no required courses or area distribution requirements; however, students should be able to demonstrate a broad knowledge of English studies at their examinations. After passing these examinations, students write and defend a dissertation. Doctoral students must demonstrate a reading knowledge of two foreign languages or advanced proficiency in one foreign language.

The department offers financial aid in two forms, fellowships and assistantships. Graduate Teaching Assistantships are generally available for the most qualified students. The typical teaching appointment is just under half-time. Assistantships are renewable, provided that students teach satisfactorily and make adequate progress toward the degree. A few outstanding applicants also receive first-year fellowships. Review of applications for financial aid will begin on Jan. 15.

Entomology - MS, MAG, PhD

Graduate Degree Program study in entomology emphasizes basic and applied aspects of the science of entomology and leads to the degrees of master of science, master of agriculture and doctor of philosophy. Admission is based primarily on a combination of grade-point average and Graduate Record Examination scores. The graduate program prepares students for careers in teaching, research and extension with a variety of academic, governmental, state, private and industrial opportunities.

Master of science (MS) For a major in entomology at the MS level, the student should have a baccalaureate degree from a recognized institution with pre-requisite training in zoology, botany, chemistry, physics, and mathematics. Qualified students lacking mandatory courses may be admitted but will be required by the student's advisory committee to make up any deficiencies.

The MS program in entomology is available to qualified individuals who wish to pursue a master's level program that requires a thesis. Importance is placed on both classroom and research training. Students holding baccalaureate degrees in agriculture or the biological sciences may find this degree program helpful to their professional development and career goals. The educational goals and objectives of the MS degree program are to produce graduates who are fundamentally trained in the scientific principles and general knowledge of entomology and related sciences and who are able to apply these principles to successfully solve problems of an entomological nature or employ this knowledge at an advanced level of study.

The MS requires a minimum of 30 semester hours, including 14 core semester hours (ENTM 7200, Insect Physiology; ENTM 6440, Insect Morphology; and ENTM 6300, Systematic Entomology), ENTM 7950 (Seminar), and a thesis. A graduate-level course in statistics is also required. A minimum of 21 semester hours must be taken in entomology and a specialty area of at least 10 semester hours may be selected from related subject matter fields. There is no language requirement for the MS degree.

The master of agriculture (MAg) program with a specialization in entomology is available to qualified applicants who wish to pursue a master's level program that does not require a thesis. Emphasis is placed on both classroom and practical training with emphasis on a graduate internship that permits individual mentoring. Students holding baccalaureate degrees in agriculture, the biological sciences, and some aspects of business may find this degree program helpful to their professional development and career goals. The MAg with a specialization in entomology carries the same entrance requirements as the MS but is a non-thesis degree; an internship (ENTM 7920) and a course in statistics are strongly recommended. The MAg requires a minimum of 32 semester hours, 21 of which must be in entomology, including 14 core semester hours (ENTM 7200, Insect Physiology; ENTM 6440, Insect Morphology; and ENTM 6300, Systematic Entomology) and related courses with the remainder taken from a variety of subject areas determined in consultation with the student's advisory committee. A comprehensive examination is required after all courses are completed. There is no language requirement for the MAg degree.

Finance - MSBA

The MSBA program offers specialized training to graduate students desiring a more intense background in the field relative to the general preparation provided by an MBA. The objective of the program is to prepare students for careers in their chosen profession or for further graduate work. The program has a thesis and non-thesis option (the non-thesis option requires additional course work). The program of study is determined by the student and the student's advisory committee based on the student's background and areas of interest.

Fisheries and Allied Aquacultures - MAq, MS, PhD

Graduate study in the Department of Fisheries and Allied Aquacultures leads to the degrees of master of aquaculture, master of science and doctor of philosophy. The program prepares students for productive careers in the private and public sectors in aquaculture, aquatic ecology, and fisheries biology and management.

Students desiring admission for graduate study should have a degree from a recognized institution and should have adequate course work in biology, zoology, botany, chemistry, physics, and mathematics. Qualified students lacking an adequate background in these areas may be admitted but may be required to correct deficiencies after they enroll at Auburn.

The non-thesis master of aquaculture degree is offered to students seeking broad practical training and preparing for a career in aquaculture management. The degree requires successful completion of a minimum of 39 semester credit hours which includes a 3 to 6 - month internship. A minimum of 9 credits must be taken from other departments, 6 of which are required in business-related courses.

The master of science degree combines classroom study and an introduction to scientific research. A minimum of 30 semester credit hours are required. At least 9 hours must be taken from other departments.

Admission to the doctor of philosophy degree program usually requires that the student have a master's degree from a recognized graduate program. The doctoral program emphasizes original, scholarly research and includes significant advanced course work. The PhD requires a minimum of 60 semester credit hours beyond the bachelor's degree and a dissertation describing original research. A minimum of 30 hours

must be graded graduate courses, 20 of which must be taken at Auburn University.

All graduate students are expected to be engaged in service to the department's research and education programs as deemed appropriate by the academic adviser and department head. All students receiving departmental assistantships must be registered as full-time students each semester, and all MS and PhD students must be registered for at least one credit hour of thesis and dissertation research each semester.

Forestry - MNR, MS, PhD

Graduate study in forestry leads to master of natural resources (MNR), master of science (MS), and doctor of philosophy (PhD) degrees. Three MNR options are available. One, for students with undergraduate degrees in forestry, involves primarily advanced course work and can be completed in one year. A second MNR option is for individuals with baccalaureate degrees in fields other than forestry that are interested in becoming Registered Foresters in Alabama. This option is a two-year program which begins with a 10 week summer Field Practicum. The third MNR option is for individuals with a biologically related baccalaureate degree that are interested in careers in the management and policy making for our natural resources. This option can be completed in 3-4 semesters depending upon coursework selected. The MS program, which involves research and a thesis, and normally requires two years for completion, can be tailored for students with degrees in forestry, the biological sciences, physical sciences, economics, engineering and business. MS and PhD degrees are offered in the fields of forest biology and ecology, forest measurements, forest management/economics, timber harvesting/forest operations and forest products. A PhD in economics is also offered through the interdepartmental program in economics which is administered jointly by the Department of Agricultural Economics and Rural Sociology and the School of Forestry and Wildlife Sciences. An urban forestry minor, administered in cooperation with the Department of Horticulture, is available for MNR, MS, and PhD degrees.

In addition to meeting admission requirements of the Graduate School, applicants are evaluated and recommended for admission by the graduate faculty of the School of Forestry and Wildlife Sciences on the basis of a holistic examination of their scores on the Graduate Record Examination (GRE), their previous academic record, experience, and recommendations. While the following are not absolutes, the faculty generally expect a minimum grade-point average of 3.0 in previous academic course work and minimum scores of 450 on the verbal and 550 on the quantitative element of the GRE. Applicants not holding a BS in forestry may be required to take necessary background courses. These needs are determined by the student's advisory committee and approved by the dean with due consideration for the student's previous training and experience. There is no foreign language requirement for any of the graduate degrees.

The MNR option for students with an undergraduate degree in forestry requires a minimum of 36 semester hours of graduate courses. The MNR option for students with a baccalaureate other than forestry and interested in becoming Registered Foresters requires a minimum of 70 semester hours (34 hours of specified undergraduate course work plus 36 hours of graduate course work). The MNR option for students with a biological baccalaureate requires a minimum of 36 semester hours of graduate courses. Requirements for all three MNR options include a MNR paper (FOR Y 7980), Graduate Seminar (FOR Y 7950), and assist with one course during their degree in Practicum for College Teaching (FOR Y 7910).

The MS degree program requires a minimum of 30 hours beyond the bachelor degree at the graduate level, 21 hours of which must be in the major. A minimum of 4 but not more than 6 hours in Research and Thesis (FOR Y 7990) is required. All MS students are required to take Research Methods (FOR Y 7510), Seminar (FOR Y 7950), and assist with one course during their degree in Practicum for College Teaching (FOR Y 7910). A research proposal and thesis based on original research are major components of the MS degree.

The PhD degree requires 60 semester hours beyond the bachelor degree. There must be a minimum of 30 semester hours in graded coursework at the 7000 level or above. Of the remaining 30 semester hours, 10 hours must be Research and Dissertation (FOR Y 8990) and 20 hours of 6000 level or above. While some these 60 hours can be from previous graduate work, such as a MS degree, a minimum of 18 hours of graded coursework at the 6000 level or above must be completed at Auburn. All PhD students are required to take Research Methods (FOR Y 7510), Seminar (FOR Y 7950), and Practicum for College Teaching

(FORY7910). A research proposal and dissertation based on original research are required as major components of the PhD degree program.

Additional information on forestry graduate programs and degree requirements can be found on the school's Web site at www.sfw.s.auburn.edu/gpo.

Geology - MS

Graduate study in geology leads to the master of science. The graduate program is oriented toward providing a sound practical background in preparation for employment in industry or government service or further academic pursuits. The curriculum provides broad training in geology with the opportunity for specialization through electives, directed studies, and thesis or capstone research.

Admission into the master's program requires a bachelor's degree in geology (or related Earth science discipline) from an accredited institution with 40 semester hours in geology, an acceptable undergraduate grade-point average, satisfactory scores on the Graduate Record Examination general test, and three letters of recommendation. Undergraduate course deficiencies may be made up during the student's first year in the degree program.

The thesis option MS degree in geology requires a minimum of 30 semester hours and completion of a thesis. The 30 hours include: 21 hours of graduate-level geology courses (including GEOL 7100-Geocommunication); 3-5 hours of approved 6000- or 7000-level geology or supportive electives (no more than 3 hours of which can be GEOL 7930-Directed Study); and 4-6 hours of thesis. Students electing the non-thesis option must complete a minimum of 40 semester hours and a capstone project. The 40 hours include: 36 hours of graduate-level geology courses (including GEOL 7100- Geocommunication); and 4 hrs of approved 6000- or 7000-level geology or approved electives, all or a portion of which may be GEOL 7930-Directed Study or GEOL 7980-Capstone Project. Both degree options require (1) satisfactory completion of a summer field course or comparable field experience prior to beginning the second year of residence and (2) demonstrated working knowledge of a computer language or computer-based geographic information system (G.I.S.) before graduation.

History - MA, PhD

Graduate study in history leads to the degrees of master of arts and doctor of philosophy. The graduate program prepares students for careers in teaching, business, government and research.

For admission to the MA program, the student must have a bachelor's degree from an accredited institution with 27 semester hours of history and a satisfactory GRE score. Applicants lacking course requirements must make up deficiencies before or after admission to the degree program. The MA requires a minimum of 31 hours (of which 21 must be in seminar courses, including HIST 7700) and a thesis. The MA program offers a specialization in archival studies, including practical training. The MA degree (non-thesis) is awarded to students in the doctoral program who have not previously earned the master's upon passing the General Examination for admission to candidacy for the PhD

For admission to the PhD program, the bachelor's degree with 27 semester hours of history and a satisfactory GRE score are required. The program requires a minimum of 65 semester hours beyond the bachelor's degree (of which 43 must be at the 7000 or 8000 level exclusive of thesis or dissertation credit), including HIST 8700, 8710 and a dissertation. Candidates must demonstrate excellence in their major field of history and competence in two minor fields of history on their general examinations. In addition, students must take a minimum of 6 hours of course work outside their major and minor fields, the six may be taken in a discipline other than history. Major fields in history include (1) United States to 1865 (2) United States since 1865 (3) Europe 1500-1815 (4) Europe since 1789 (5) History of Technology. Latin American and World History are offered as minor fields. A specialization in archival studies is also offered for graduate students who wish to prepare for careers in public history as professional archivists.

There is no language requirement for the master's degree. The PhD requires a reading knowledge of at least one foreign language as determined by the student's doctoral committee. Language competency should be demonstrated before the student begins the second year of the doctoral program.

Horticulture - MS, MAg, PhD

Graduate study in horticulture is directed toward the master of science and doctor of philosophy degrees. Graduates are prepared for careers in teaching, research, business, production, public service or extension. Master's-level programs are available to students with undergraduate degrees in horticulture and those from other fields seeking opportunities in horticulture-related careers. For the MS program, students must have a bachelor's degree in horticulture or a related area from an accredited university and have satisfactory GRE scores. Applicants from related areas will be required to correct any undergraduate course deficiencies. The MS requires a minimum of 30 credit hours of graduate work, including at least 21 credit hours in the major field of study. The student's plan of study is individually tailored by the student, major professor and advisory committee to meet the student's career goals. A thesis based on research by the student is required.

The master of agriculture is a non-thesis option which requires successful completion of 32 credit hours, 21 of which must be in agricultural sciences. Additional courses may be required for individual students and are determined by the major professor and advisory committee. There is no specific schedule of courses for MS or MAg students or a foreign language requirement for any graduate students in horticulture.

Graduate students in a program requiring a thesis or dissertation will register for at least one hour of HORT 7990 or 8990 respectively, per semester. Doctoral candidates must follow all Graduate School and departmental requirements concerning course work. However, the advisory committee may require additional course work. The doctoral program emphasizes original and creative research with a required dissertation.

Human Development and Family Studies - MS, PhD

The Department of Human Development and Family Studies offers graduate instruction leading to the master of science with concentrations in child development, family relations and marriage and family therapy; and the doctor of philosophy with a focus on interpersonal competence and relationship dynamics within the context of the family. The department emphasizes the integration of knowledge from various fields for the purpose of understanding and developing professional skills for careers in college or university teaching and research, teaching and supervision in programs for young children, parent education, marriage and family therapy, community service, Cooperative Extension, government, business and industry. To promote training and research, the Department operates the Auburn University Early Learning Center, Harris Early Learning Center of Birmingham and the Center for Marriage and Family Therapy. The marriage and family therapy option is accredited by the American Association for Marriage and Family Therapy Commission on Accreditation for Marriage and Family Therapy Education. Both the Auburn University Early Learning Center and Harris Early Learning Center of Birmingham are accredited by the National Academy of Early Childhood Programs, a division of the National Association for the Education of Young Children.

For admission, a background in the social and behavioral sciences is highly desirable and should include course work in human development, family relations, anthropology, sociology, psychology and statistics. Students without adequate preparation in these areas may be accepted upon the condition that they register for any additional courses deemed necessary by the department's graduate advisory committee. There is no language requirement for the MS or PhD degrees.

The MS requires a minimum of 30 semester hours in the child development and family studies concentrations and 50 semester hours in the marriage and family therapy concentration, a thesis, and other fundamental work. See <http://www.humsci.auburn.edu/hdfs/grad-admissions.php> for specific requirements in these concentrations. Students interested in completing the three-semester Marriage and Family Therapy Internship are required to take and pass a clinical qualifying examination.

The PhD program requires a minimum of 60 credit hours beyond the BS, including HDFS 8010, 8020, 8040, 8050, and 8060. This program requires course work with a theoretical and substantive emphasis in family and child relationships, a supporting emphasis that provides a multidisciplinary understanding of children and families, a research and statistics component, and an empirical dissertation.

Graduate research may focus on relationship studies at any stage of the life cycle, including parent-child, family, marital, non-marital,

peer, friendship, family-child care-work and mentor-protégé. Graduate assistantships are available to students who have achieved superior rank in their previous academic work.

Industrial Design - MID

The department offers the master of industrial design degree accredited by the National Association of Schools of Art and Design (NASAD.) Applicants must have a bachelor's degree in industrial design or equivalent from an institution of recognized standing. Those with baccalaureate degrees from other disciplines may be admitted to the graduate program under condition that a minimum of 43 post baccalaureate credit hours in industrial design be completed at the undergraduate level with a 3.0 grade-point average. Students without an undergraduate Industrial Design degree are admitted during the summer semester and awarded a bachelor of science in environmental design (NASAD accredited) upon completion of the post baccalaureate program.

Upon admission to the master's program successful completion of 35 graduate level credit hours, including a thesis is required. A 40 credit hour non-thesis option is available. Credit for INDD 7990 Thesis may not exceed six hours. Course content beyond the 14 credit hour core curriculum will be structured to accommodate the student's area of interest. Completion of an industry collaboration studio (INDD 7910 Industry Practicum) is required. There is no language requirement. An external terminal document draft review is required. A 3.0 overall graduate GPA is required. Participation in department sponsored international travel programs may be used as credit towards graduation. Students are admitted only in the fall semester. Applications to the graduate program must be complete by April 1.

Industrial and Systems Engineering - MISE, MISE/MBA, MS, PhD

The department offers the master of industrial and systems engineering, a joint program leading to both MISE and MBA degrees, the master of science and the doctor of philosophy. These programs are for students with undergraduate degrees in industrial engineering, other engineering disciplines, mathematics and sciences.

All applicants must submit Graduate Record Examination scores for the General Test except MISE/MBA applicants who may instead submit Graduate Management Admission Test scores.

Both the MISE and MS programs require 30 hours of course work. The MISE is oriented toward professional practice. MISE students must take 18 semester hours from a set of core courses, a three-hour design project and nine hours in electives. The MS requires the same 18 hours of core courses, six hours of electives and a six-hour thesis.

The MISE/MBA is a 54-hour program administered jointly by I.S.E. and the MBA program. It consists of 18 hours of I.S.E. core courses, 18 hours of MBA core courses, and a three-hour project jointly supervised by I.S.E. and MBA faculty. The remainder consists of 15 hours of electives if the student has more than two years work experience, or a six hour summer internship or international experience and nine hours of electives otherwise. Students must apply separately to each program (MISE and MBA).

Research involvement is the dominant element in the doctoral program. It provides a quality educational experience for selected individuals whose records indicate excellent potential not only for superior performance in course work, but also for the research and ensuing dissertation which is an original and scholarly contribution to the field. The PhD program requires at least 60 semester hours of coursework beyond the bachelors, including 18 semester hours of core courses. The student must demonstrate a high level of proficiency in a specific area of industrial and systems engineering as well as a competence in the entire field. The degree usually requires at least one calendar year of research.

Kinesiology - MEd, MS, EdS, PhD

Graduate study in the Department of Kinesiology leads to the degrees of master of education (MEd), master of science (MS), specialist in education (EdS), and doctor of philosophy (PhD). The advanced programs prepare students for careers in teaching and research in educational settings, program management in clinical and corporate fitness settings, sport conditioning and management, as well as the fitness and sport-related industry.

For a major in kinesiology at the master's level, the student must have a bachelor's degree from an accredited institution and satisfactory Graduate Record Examination scores. Applicants without appropriate

undergraduate degree preparation and course requirements may be asked to register in an appropriate undergraduate program before admission to the degree program or may be required to complete specific undergraduate courses prior to degree completion. Areas of specialization for the master's program include athletic training, biomechanics, exercise physiology, health promotion, motor development, motor learning, sport and exercise psychology, and pedagogy.

Alternative master's certification programs offer qualified students who hold non-teaching baccalaureate degrees a route to initial teacher certification while simultaneously earning a master's degree. This alternative route to certification is offered in physical education. Candidates in the alternative master's program are required to participate in the Alabama Prospective Teacher Testing Program including submitting a passing score on the Basic Skills Assessments (Applied Mathematics, Reading for Information, and Writing) and a passing score on the appropriate Praxis II subject assessment prior to internship.

Graduate students interested in completing a minor in Sports Management must complete one course in each of the following areas: sports studies, sports management, educational leadership and practicum. Six hours beyond the degree requirements are required for the sport management minor.

The EdS degree is a terminal degree and students interested in doctoral study should not enter this program. The master's degree, satisfactory GRE scores, a statement of goals and references are requirements.

Requirements for the PhD program include the master's degree, satisfactory GRE scores, a statement of goals, and references. Areas include biomechanics, exercise physiology, motor behavior, and physical education pedagogy.

Landscape Architecture - MLA

Graduate study in landscape architecture leads to the graduate degree of master of landscape architecture (MLA). The MLA consists of 54 semester hours for those students entering with a design baccalaureate and 96 semester hours for students entering with a non-design baccalaureate.

The program is a research, studio design-based course of study that incorporates learning across disciplines of art, architecture, urban design, ecology, information technology, and the natural sciences. Extending the regional agrarian context through the relationships between human dwelling and natural systems, the graduate will be prepared to take action in rebuilding human communities, reconnecting fractured ecosystems, and regenerating diverse habitats. Students, in their final year of study, are required to engage in an individual design and research thesis. Joint degree options between the MLA, bachelor of architecture and the master of community planning are facilitated by a joint thesis option.

To enter the program, a student must have an undergraduate degree, meet the requirements for admission to the Graduate School and complete a statement that describes the candidate's personal interest and professional goals. Applications to the MLA with a design degree must submit a portfolio of work illustrating their design capabilities. All applicants must submit GRE scores before enrolling in 6000/7000 level classes.

Management - MSBA, MSIS., PhD

The department offers graduate study leading to the master of science and the doctor of philosophy degrees in management. Applicants to each program must hold a bachelor's degree from a recognized institution. Additionally, students must complete a common body of knowledge curriculum comprising core courses in business. Graduates of business schools will likely have met this requirement; graduates of other programs may be required to complete additional courses to compensate for deficiencies.

The MSBA - HRMN program offers specialized training to graduate students desiring an intense background in human resource management. The objective of the program is to prepare students for careers in Human Resource Management or for further graduate work. The program has a thesis and non-thesis option. The program of study is determined by the student and the student's advisory committee based on the student's background and areas of interest.

The MSIS. Program is a non-thesis program that emphasizes practical application of management information systems to managerial problem solving and decision making. Students are required to complete a final project. The program is designed to provide students the opportunity to develop an expertise in a chosen area of management. Applicants to the masters program must have completed an undergraduate degree and

a common body of knowledge consisting of core courses in business is required. The MSIS. program is offered as a traditional, On-Campus program and as a Distance Learning program via Video Outreach.

The PhD program prepares graduates to conduct high-quality research in universities, colleges, government and business. Doctoral students choose one of three areas of concentration: human resource management, organizational analysis and change, or management of information technology and innovation. Individual flexibility is provided in a program of study that develops the conceptual and methodological skills that graduates need to establish a leadership position in their chosen fields. Objectives of the program are accomplished through the completion of a formal program of study, successful completion of a statistics core, preparation and completion of two examination manuscripts, and dissertation research. Students with assistantships may also be required to teach. Students are expected to have a fulltime presence on campus. Applications to the PhD program must complete a departmental application and an Auburn University Graduate School application. For full consideration, applications must be received no later than March 1, prior to the fall term.

Materials Engineering - MMtIE, MS, PhD

Materials Engineering offers graduate programs of instruction and research leading to the degrees of master of materials engineering (MMtIE), master of science (MS) and doctor of philosophy (PhD). All applicants must submit GRE scores for the General Test. Students completing all degree programs are expected to have knowledge in the following areas: mechanical properties; materials structure; materials thermodynamics; kinetics; and electrical, optical and magnetic properties of materials. There are no foreign language or minor requirements for any Materials Engineering graduate degrees. All students must submit an approved plan of study within one year of matriculating in the program.

The MMtIE is intended for those who expect to enter the engineering profession at an advanced level or are practicing engineers wishing to gain additional fundamental knowledge in the field of materials. Those students lacking the necessary background may be required to take additional course work. The requirements for the degree are 33 credit hours including a final engineering report. The topic of the report will be agreed upon by the student and the advisory committee. Applicants must have a baccalaureate degree in engineering or science from an institution of recognized standing. Students must pass a qualifying examination prior to taking the final general comprehensive examination required by the Graduate School.

The MS is intended for those who seek advanced knowledge in materials science or engineering for a career in research or other professional practice. The applicant must have a baccalaureate degree or its equivalent in an engineering or scientific discipline from an institution of recognized standing. Those lacking the necessary background will be required to take additional course work to ensure the continuity of their educational and professional experience. The MS program consists of 30 credit hours selected from areas of study appropriate to the objectives of the applicant and includes a thesis. Students must pass a qualifying examination prior to taking the final comprehensive examination required by the Graduate School.

The PhD program requires that students pass qualifying examinations (oral and written) with a greater proficiency than master's students prior to taking the comprehensive examinations. The program is arranged on an individual basis with the student's advisory committee and in accordance with Graduate School guidelines. Students admitted to the doctoral program are required to take the general comprehensive examination based on a research proposal developed by the student within two years after entering the program. The student should be prepared to be examined in all areas of materials engineering.

Mathematics and Statistics - MS, MAM, MPS, PhD

The Department of Mathematics and Statistics offers programs leading to the master of science and doctor of philosophy in both pure and applied mathematics and statistics, the non-thesis master of applied mathematics, and the master of probability and statistics (also see Statistics). In addition, the department regularly offers actuarial science courses that are approved by both the Society of Actuaries and the Casualty Actuarial Society; they are designed to provide the background and material covered in the first three actuarial exams.

The master of applied mathematics gives students a strong foundation in one of several fundamental areas of applied mathematics. It is a

flexible degree with courses being chosen in conjunction with the advisory committee, some of which may be relevant courses offered by other departments. The master of probability and statistics and the master of science in statistics degrees provide a solid foundation for careers involving applications of statistics (see Statistics). The master of science degree in mathematics develops both content knowledge of the student through coursework, and provides the opportunity to delve deeper into an area of mathematics through the writing of a thesis. The PhD is designed to give students a thorough understanding of a broad body of knowledge related to their field of study, as well as to develop their research capabilities. PhD students are required to pass one oral and three written preliminary examinations. A statistics concentration is available for the PhD degree (see Statistics).

The internationally known faculty of around 50 professors works in areas of algebra, analysis, applied mathematics, discrete mathematics, geometry, linear algebra, logic, numerical analysis, partial differential equations, probability, set theory, statistics and topology. Some professors maintain applied research programs associated with several government and industrial laboratories, and one holds the Associate of the Society of Actuaries designation.

Admission to the program is based on a student's undergraduate record, three letters of recommendation from former teachers, GRE scores and graduate grade-point average (for doctoral students). The GRE subject test is not required. A bachelor's degree in mathematics is not required, but students without such a background may be expected to take additional courses to make up deficiencies. The department follows the guidelines for graduate degrees set forth in this bulletin. Doctoral students must satisfy the departmental preliminary examination requirement to continue their teaching assistantship. Course work in mathematics may be transferred from other institutions, subject to university limitations. (See <http://www.math.auburn.edu/> for further information.)

Most students in the program are supported financially during their studies through Graduate Teaching Assistantships and through tuition waivers given to all teaching assistants (with some restrictions). The Baskervill, Fitzpatrick, and Haynesworth Fellowships (UP TO around \$5,000 each) are awarded annually to qualified students in the Department of Mathematics and Statistics. The department occasionally has Graduate Research Assistantships available in conjunction with departmental contractual research programs. The department requires that all international GTAs who have responsibility for teaching a class be proficient in English, passing the test of spoken English.

Statistics - MS, MPS

The Department of Mathematics and Statistics offers degree programs leading to a master of science in statistics and a non-thesis master of probability and statistics. The master of science is designed to provide a suitable mix of theoretical and applied background for students interested in a career in statistics. The curriculum provides students with the necessary technical, analytical and interpretive skills required of professional statisticians while concentrating on education in the fundamentals of statistics and its interdisciplinary nature. Course offerings are structured to give students a variety of choices of specialization in order to pursue a career in academia, government or industry and/or further their pursuit of a PhD degree in statistics. For the MS degree the student must complete and defend a thesis and obtain a passing score on the related oral examination. The master of probability and statistics (MPS) is the non-thesis option in which students are required to complete a project that may involve statistical consulting, programming and/or data analysis. A PhD degree in mathematics with concentration in statistics is also available (see mathematics).

For those students whose graduate research includes a substantial amount of statistical methodology or data analysis, but who do not wish to pursue a degree, a graduate minor in statistics is available (see "Statistics" under "Graduate Minors").

Mechanical Engineering - MS, MME, PhD

The Mechanical Engineering Department offers graduate programs of instruction and research leading to the degrees of master of mechanical engineering, master of materials engineering (see separate listing of graduate program in materials engineering), master of science and doctor of philosophy. Educational and research facilities are available to support graduate study in engineering mechanics, experimental mechanics, robotics, vibrations, dynamical systems, engineering design, engineering acoustics, computer-aided design, materials science and thermal/fluid

sciences. The applicant must hold a bachelor's degree or its equivalent from an institution of recognized standing. If the applicant's undergraduate degree is other than mechanical engineering, an individualized plan of study will be developed to impart the critical skills inherent in the bachelor's mechanical engineering program. All applicants must submit Graduate Record Examination scores for the General Test and will be evaluated on an individual basis by the Mechanical Engineering Graduate Committee.

Non-Thesis Option: The MME is intended for those who expect to enter the engineering profession at an advanced level. Emphasis is placed on professional development. Requirements for the degree consist of a major of 21 credit hours as a minimum and a coordinated minor of 9 credit hours selected from areas of study appropriate to the applicant's objectives. There is a required faculty supervised project culminating in a final comprehensive oral examination.

Thesis Option: The MS applicant must have a baccalaureate or its equivalent in an engineering or scientific discipline from an institute of recognized standing. The degree requires a major of 21 credit hours in mechanical engineering courses, including a thesis (seven credit hours) and a minor of 9 credit hours selected from allied areas of study. The minor may consist of a sequence of courses in mathematics, physics, or other related areas. All candidates must pass an oral defense of their thesis including a comprehensive examination covering the major and minor subjects.

The doctor of philosophy provides for advanced coursework and emphasizes original, creative research. A dissertation embodying the results of this research represents a major portion of the requirements for this degree. The PhD program will consist of a minimum of 60 credit hours, including dissertation, beyond the BS degree. PhD students will select their major courses from those at the 7000-8000-level unless there are special requirements for more basic courses. The PhD also requires a minor of at least 9 credit hours in a closely related field such as mathematics, physics, or other engineering disciplines. There is no language requirement for the PhD. The program, arranged on an individual basis, usually will consist of a minimum of one academic year of coursework and one of research beyond the master's level.

The General Examination must be taken by those seeking a PhD. It consists of two parts: (1) a written examination based upon the student's graduate coursework, and (2) an oral examination which may include a review of material covered in the written exam as well as a detailed presentation and defense by the student of his proposed dissertation research.

Nursing - MSN

The School of Nursing offers a MSN program jointly with Auburn University Montgomery. This program focuses on the teaching/learning process as it relates to nursing students, patients and their families, and health care providers. Graduates of this program will possess advanced knowledge of educational principles for diverse populations and the roles of the clinical nurse specialist in the area of pediatrics, geriatrics or adult health.

The MSN program consists of 43-51 semester hours. These include major, support, and elective courses. The curriculum is offered via a hybrid web-enhanced courses and online courses. Classes that meet vary meeting place between AU and the AUM campus. Students will choose a thesis or an evidence-based practice project as a capstone experience.

Admission to the program is competitive and enrollment is limited. Minimum requirements include:

- A bachelor of science in nursing from an accredited college or university
- Good academic standing from the last university attended
- Successful completion (C or better) of an undergraduate statistics course
- Overall grade-point average of 3.0
- Unencumbered Alabama license as a registered nurse
- Submission of GRE scores
- Three letters of professional reference
- Current resume/CV/essay on the reason for seeking the MSN
- Full-time students are admitted in the summer or fall semesters and part-time students are admitted each semester.

Application deadlines are: (1) spring semester Nov. 1, (2) summer semester March 1, and (3) fall semester April 1. If you are interested in applying and have missed the application deadline please speak to the program director since admission may still be possible. Full-time study can be completed in approximately 4 semesters and a summer term. Courses

are offered only one time per each academic year so switches from full to part-time or part-time to full-time may impact graduation dates. To be considered for full-time study, students must have practiced full-time as a registered nurse for a minimum of 6 months. Students with less than 6 months of practice may be admitted as part-time students, contingent on continued part-time employment as a registered nurse.

Nutrition and Food Science - MS, PhD

The Department of Nutrition and Food Science offers graduate study leading to the master of science and the doctor of philosophy degrees with emphasis in either food science, nutrition, or hotel and restaurant management. The combination of these respective areas within a single department facilitates integrative studies addressing normal and clinical nutrition, food and health issues, food safety and technology and food service, as well as hospitality management. For the MS degree, the student may specialize in human, community, clinical or sports nutrition, food service management, food science, or hotel and restaurant management. The department emphasizes the integration of knowledge from various fields for the purpose of understanding and developing professional skills for careers in higher education, government, and food, healthcare and hospitality industries.

For admission to the MS or PhD programs, the student must have a bachelor's degree from an accredited institution, a satisfactory grade-point average, and a satisfactory GRE score (a GMAT score may substitute for the GRE score for the HRMT emphasis). Applicants lacking background requirements must make up deficiencies. The MS degree requires a minimum of 30 semester hours and a thesis. Required courses for an emphasis in nutrition include NUFs 7500, 7510, 7520, 7050, 7850, and 19 hours of supporting courses. Required courses for an emphasis in food science include NUFs 6430, (6450 or 6640), 7200, 7210, 7050, 7850, and 13 hours of supporting courses. Required courses for an emphasis in hotel and restaurant management include NUFs 6530, 6550, 6570, 7050, 7850, and 19 hours of supporting courses. A non-thesis option is available in the HRMT emphasis; this option is available through distance education and on campus. On campus, non-thesis options for the MS degree are also available in nutrition and in food science. The PhD degree requires a minimum of 60 semester hours beyond the BS degree and a dissertation describing original research in the area of nutrition, food science, or hotel and restaurant management. Course requirements for the PhD degree are the same as for the corresponding master's degree or an equivalent course from another institution plus NUFs 8970, 8850, and in the case of an emphasis in nutrition or food science NUFs 7280. Laboratories are available for human, animal, chemical, and physical research.

Supporting courses to strengthen the nutrition and food science major may be in, but not limited to, biochemistry, physiology, chemistry, animal science, biosystems engineering, health and human performance, and biostatistics. The HRMT emphasis may take supporting courses in management, marketing, communications, economics, and education. Course requirements for becoming a registered dietitian may be met during the graduate program by enrolling in additional required courses. Teaching, research, and extension assistantships are awarded competitively to qualified students.

Pathobiology - MS, PhD

(See Biomedical Sciences)

Pharmaceutical Sciences - MS, PhD

Graduate study in pharmaceutical sciences leads to the degree of master of science. A doctor of philosophy in pharmaceutical sciences is offered through an interdepartmental program by the departments of Pharmaceutical Sciences and Pharmacy Care Systems.

The graduate program prepares students for teaching or research careers in academia, the pharmaceutical industry and public and private research institutes. Students are expected to select one of the following areas of specialization: pharmaceuticals, medicinal chemistry or pharmacology and toxicology.

For the MS program, students must have a degree in pharmacy or a bachelor's in an allied discipline such as biology, zoology, physiology, chemistry, physics, or psychology. Requirements include completion of 30 semester hours and a thesis.

For the PhD program, applicants must have a degree in pharmacy or a bachelor's or master's in an allied discipline. Students are expected to select a major area from one of the three disciplines in the pharmaceutical sciences. A minor should be selected from a related area within pharmaceutical

sciences or from an allied discipline offering PhD-level education. A dissertation is required of all graduates of the PhD program

Pharmacy Care Systems - MS, PhD

The department offers graduate course work at the master's level in the fields of pharmacy care systems and health systems pharmacy. A doctor of philosophy in pharmaceutical sciences is offered through an interdepartmental program by the departments of Pharmacal Sciences and Pharmacy Care Systems.

The student pursuing the MS is expected to select either pharmacy care systems or health systems pharmacy. At least half of the student's work will be completed in the chosen field, including a thesis. The remainder may be selected in other pharmacy fields or may be taken in a related area outside of the James Harrison School of Pharmacy such as accounting and finance, computer sciences, economics, education, industrial engineering, industrial design, architecture, management, psychology, sociology and communication. The MS requires a minimum of 30 semester hours and a thesis. The thesis may be counted toward part of the semester hour requirement. A student may earn a maximum of six credit hours for the thesis.

The student pursuing the PhD will be expected to complete a minimum of 60 semester hours of course work in the chosen field of study. In addition, general examinations and a dissertation are required. A student must earn a minimum of 10 hours credit for the dissertation.

A bachelor's degree from an accredited college or university and satisfactory scores on the Graduate Record Examination are required. A pharmacy degree is preferred. There is no additional language requirement beyond verbal and written fluency in English.

Physics - MS, PhD

The Department of Physics offers the doctor of philosophy degree to students who have achieved a mastery of the fundamental laws of nature and demonstrated the ability to complete a research project that results in new knowledge in physics. All students complete the basic graduate level courses in Classical Mechanics, Electricity and Magnetism, Quantum Mechanics and Statistical Physics. They demonstrate their mastery of these subjects by passing a General Doctoral Examination that has both a written and an oral component. To increase their knowledge of a broad range of advanced physics topics and to develop expertise in their chosen area of focus, students complete at least 12 additional hours of graded course work with a minimum of nine at the 8000-level. The research project is usually undertaken in one of the research focuses of the Department - plasma physics, condensed matter and surface physics, atomic and molecular physics, space physics, and computational physics. It is completed with the defense of the student's dissertation. Students are also expected to publish their research in a refereed journal and/or present it at an appropriate professional meeting.

The master of science is also offered. Successful students complete the same basic graduate level courses as PhD students. Students electing the non-thesis option complete an additional 12 hours of graduate level course work. Students electing the thesis option complete at least an additional 6 hours of graduate level course work and at least 4 hours of thesis work. In addition to defending their thesis, they are encouraged to publish their results in a refereed journal or present them at a scientific meeting.

Plant Pathology - MAg, MS, PhD

Graduate study in plant pathology leads to the MAg, MS or PhD degrees. Applicants must have earned a BS from an accredited institution with course work in botany, microbiology, agronomy, horticulture, or closely related areas. Satisfactory scores on the GRE and TOEFL tests are also required. All graduate students must complete core courses in plant pathology. For the MAg or MS, 30 semester credits are required beyond the BS; for the PhD candidates, 60 credits are required. MS candidates must conduct research for the thesis and pass a final oral examination. PhD candidates must conduct independent research for a dissertation and successfully pass final written and oral defense examinations (also referred to as the "prelim exam" typically taken upon completion of coursework) as well as a final oral defense examination upon completion of the dissertation research. No foreign languages are required.

Polymer and Fiber Engineering - MS, PhD

Graduate study in the Department of Polymer and Fiber Engineering leads to the MS and PhD degrees. The MS in Polymer and Fiber Engineering focuses on polymer synthesis, fiber and film formation,

mechanics of flexible structures, and composite materials. Both thesis and non-thesis options are offered. The MS degree requires a minimum of 30 hours of graduate courses.

The PhD in Integrated Textile and Apparel Science is offered jointly with the Department of Consumer Affairs in the College of Human Sciences (See Interdepartmental Graduate Degrees). The PhD requires a minimum of 60 hours of graduate courses including a minimum of 10 hours of ITAS 8990 Research and Dissertation. There is no language requirement for the MS or PhD

Poultry Science - MS, MAg, PhD

Graduate studies in poultry science leads to master of agriculture, master of science, and doctor of philosophy degrees, designed to prepare outstanding students for careers in the commercial poultry industry and allied industries, as well as in the academia. Within poultry sciences, research training and experience can be acquired in the specialized areas of management, nutrition, physiology, parasitology, pathology, immunology, virology, microbiology, processing and product technology, and food safety.

Applicants must have a bachelor's degree in agricultural, biological or allied sciences from a recognized institution. Satisfactory scores on the GRE and TOEFL tests are required. All applications are reviewed by the departmental Graduate Committee. Candidates should have adequate training in basic sciences. The course of study, developed by the student and the advisory committee, may include courses on pre-requisite subjects. There is no foreign language requirement. Master of science degree is earned only with a thesis option, whereas the master of agriculture requires a research project. Both degrees require a minimum of 30 semester hours of course work and a comprehensive final oral examination. A minimum of 30 semester hours of course work beyond the MS, or 60 hours beyond the BS, successful competition of written and oral defense examinations, and a dissertation based on an independent research project are required for the PhD degree. Additional information about the departmental requirements, assistantships, and policies can be accessed at: <http://www.ag.auburn.edu/poul/>.

Psychology - MS, PhD

The Psychology Department offers doctoral degrees in three fields* - Clinical, Cognitive and Behavioral Sciences, and Industrial/Organizational Psychology - and a master's degree option in Applied Behavior Analysis in Developmental Disabilities. (Note: Graduate degrees in Counseling, Counseling Psychology, Educational Psychology and School Psychology are offered through departments in the College of Education rather than through the Department of Psychology).

The Clinical Psychology program utilizes a scientist-practitioner training model that blends basic and applied research with clinical practice. Typically, the program requires five years at Auburn in practicum experiences, course work, and individualized research. In addition, a one-year internship at an APPIC program is required. The Cognitive and Behavioral Sciences program offers education in the broad range of experimental psychology, including behavior analysis (basic and applied), cognitive psychology, and biological bases of behavior. The Industrial/Organizational program prepares students for academic, research and/or applied settings. Electives allow students flexibility in developing their own areas of specialization. Practicum placements provide opportunities to gain research and applied experience.

Students enrolled in the doctoral programs complete a sequence of departmental core courses providing a foundation in psychology on which specialization is based. In doctoral study, students are expected to write and defend an empirically-based master's thesis. Admission to doctoral candidacy is contingent upon the successful completion of the general doctoral examination. Students must also write and defend a research dissertation. The total number of semester credit hours of graduate work leading to the PhD ranges from 60 to 92.

The master's option in applied behavior analysis in developmental disabilities trains students to provide programmatic habilitation services to individuals with mental retardation and other developmental disorders with a need for training new skills and ameliorating problem behaviors. This non-thesis degree option integrates foundation and specialized course work with practical experience. It entails three consecutive semesters (12 months) of full-time course work (25 semester hours) and practicum experience (up to 18 semester hours).

Admissions: Holders of the bachelor's degree in any discipline from an accredited institution will be considered for graduate work in psychology.

Students are admitted to all programs fall term only. Applicants should visit the department's Web page (www.auburn.edu/psychology), email BRYANGT@AUBURN.EDU or call (334) 844-6471 for application and program information. To ensure consideration, the application process should be completed by Jan. 14 for doctoral programs and by February 15 for the master's option in applied behavior analysis.

* Although an MS degree is conferred upon students in the doctoral programs when they have fulfilled intermediate requirements for the PhD, the department does not offer terminal master's degrees in these fields.

Public Administration and Public Policy - MPA, PhD

The Department of Political Science offers the master of public administration. It is a professional degree program for leadership in public service at all levels of government. The program is accredited by the National Association of Schools of Public Affairs and Administration. Highly qualified students may pursue concurrently the master of community planning through a special arrangement that includes a separate application.

Applicants for the MPA must have a bachelor's degree or its equivalent from an accredited college or university. The General Test of the Graduate Record Examination is required. The admissions committee will evaluate the undergraduate record, GRE scores, letters of recommendation, a writing sample and any experience in government. The program is not limited to political science majors, but successful applicants who have little background in government institutions and processes may be required to take additional courses.

The program requires 42 semester hours, plus a comprehensive examination. Eight core courses for a total of 24 hours credit are required of all students. Students take an additional 12 hours of electives in either public administration, broadly conceived, or an approved concentration in a related administrative field or policy area. The final six credit hours consists of either an administrative internship in a governmental agency or participation in a governmental research project. Students without substantial governmental experience will complete an internship, while those who have prior experience will complete a research project and paper.

MPA Degree Requirements

A. Pre-requisites

Competency	Measure
English	Verbal GRE of at least 450, writing sample or a course in advanced composition
Math.....	Quantitative GRE of at least 450 or course in college mathematics
U.S. Government	Undergraduate course or experience
Economics	Undergraduate course
Microcomputer applications	Undergraduate course or demonstrated competence

Students who have not satisfied these competencies before they enter the program may take them concurrently with MPA courses. It is important to complete the pre-requisites as soon as possible to gain full benefit of the regular MPA courses.

- B. The Core Curriculum - POLI 7000, POLI 7140, POLI 7150, POLI 7260, POLI 7330, POLI 7350, POLI 7360, POLI 7520. All classes are three hours.
- C. Electives - The student must take 12 hours of electives chosen in consultation with the director of the MPA Program. If the option for a concurrent degree with community planning is chosen, the electives for public administration will be fulfilled by the core courses of community planning.
- D. The Practical Experience - The remaining six hours of study required by the curriculum are fulfilled in one of two ways. Students without significant prior governmental experience take an internship. Students with direct government experience normally complete an approved research project, although they may take an internship with the approval of the MPA director.
- E. Comprehensive Examination - The comprehensive examination is a critical part of the MPA program. The comprehensive exam will be offered twice a year - fall and spring. Students who fail the examination are allowed one opportunity to retake it at one of the regularly scheduled examination periods. Typically, the exam is taken during the last term of study. A committee of three faculty members prepares and grades the exam. The examination focuses on the following:
 - 1. Factual knowledge of basic institutions, processes and rules affecting public administration.

- 2. Understanding of the major theoretical concepts of the field.
- 3. Knowledge of major generalizations of the field.
- 4. Ability to integrate concepts and generalizations from various subfields and courses.

PhD in Public Administration and Public Policy

The PhD in Public Administration and Public Policy is offered jointly by the Auburn University Department of Political Science and the Auburn University at Montgomery Department of Political Science and Public Administration. The curriculum includes four core seminars and two track options.

Only students with master's degrees from accredited universities or colleges will be considered for the AU and AUM PhD program. Applicants having an insufficient background in public administration and public policy will have to take additional courses as determined by the admissions committee. All applicants must take the GRE. Normally, a combined score of 900 is required for admission

PhD Degree Requirements

- A. Core Courses - The following four core seminars must be taken by all students: Public Administration, Public Policy, Research Methodology I and II.
- B. Tracks - The PhD program has two tracks, Public Administration and Public Policy. In addition to the four core courses, students are required to take three courses within the track they have chosen. In the Public Administration track, students must take: Public Budgeting, Human Resource Management and Organization Theory. In the Public Policy track, students must take three of the following courses: American Politics and Public Policy, Comparative Politics and Public Policy, International Relations and Public Policy, Political Theory and Public Policy and Public Law and Public Policy. The other two graduate level courses are selected by the student in consultation with the student's committee. They may be but need not be selected from this list.
- C. Minimum Credit Requirements
 - Hours of formal PhD course work..... 39
 - Hours of 7000/8000 formal PhD course work:..... 33
 - Minimum hours of formal coursework at each campus:..... 9
- D. Examinations - Upon completion of course work, students must take a written and oral examination administered by the advisory committee over their course work. For the written part, there will be one general examination covering all four of the core areas and separate examinations on the student's areas. Students must pass each written examination before scheduling the oral examination. After completion of the dissertation the student must pass a final oral examination which is principally a defense of the dissertation.

Rehabilitation and Special Education - MEd, MS, PhD

Graduate study in Rehabilitation and Special Education leads to the degrees of master of education, master of science, and the doctor of philosophy. Acceptance into these programs is competitive, based on past achievement, scholarship potential, and professionalism. Admission to the master's degree program requires competitive undergraduate grade-point average and Graduate Record Examination (GRE) scores, completed application forms, 3 letters of recommendation, and approval of department. Admission to the PhD program requires competitive graduate grade-point average and GRE scores, completed application forms, 3 letters of recommendation, a current resume, a statement of purpose, and approval of department. Stipends and fellowships are typically available at both the masters and PhD level for highly qualified students.

Students pursuing a master's degree in the special education program are required to complete a minimum of 30 semester hours. Completion of the program meets the requirement for A-level teacher certification in Alabama. Specializations include early childhood special education (ages birth to 9), and collaborative teacher (K-12). Alternative master's certification programs for non-education majors are available in these specialized areas. The special education program requires 3, 150-hour practica. Additionally, alternative master's students complete a semester-long, full-time internship in a public school setting. They also are required to participate in the Alabama Prospective Teacher Testing Program including a passing score on each of the Basic Skills Assessments (Applied Mathematics, Reading for Information, and Writing) and, if applicable, a passing score on the appropriate Praxis II subject assessment prior to internship. Graduate students in master's programs that add a new area of certification to an existing certification must pass, if applicable, the appropriate Praxis II subject assessment(s) as a prerequisite for graduation. Special education students may select a thesis (MS) or non-thesis (MEd) program.

The master's rehabilitation program is accredited by the Council on Rehabilitation Education and provides students with the necessary academic course work and clinical experiences to sit for the Certified Rehabilitation Counselor (CRC) examination. The program provides the opportunity through elective course work to specialize in vocational evaluation and to sit for the Certified Vocational Evaluator (CVE) examination. The rehabilitation program requires a 100 hour practicum taken early in the program and 600 hours of supervised clinical practice generally taken at the end of the program. Rehabilitation students may select a thesis (MS) or non-thesis (MEd) program. The thesis option requires 64 semester hours of course work while the non-thesis program is 60 semester hours and requires the student to successfully pass a written comprehensive examination.

The PhD program is offered in rehabilitation and special education. Students are required to take 15 hours of research courses and 9 hours of educational foundations (e.g., historical, psychological, philosophical, sociological). The remaining course work is made up of RSED doctoral "core" and support area course work. A minimum of 48 semester hours beyond the master's degree, excluding the dissertation hours, is needed to complete the program. Prior to submitting a research proposal for the dissertation, all RSED students must satisfactorily complete a qualifying paper and a written and oral comprehensive examination. Typically, the program takes a minimum of three years to complete (two years of course work and one year of independent research).

Spanish - MA, MHS

Graduate studies in Spanish lead to the master of arts (MA) or the master of Hispanic studies (MHS). The graduate program in Spanish prepares students for careers in education, government, and business, as well as for doctoral studies.

Candidates wishing to pursue the MA in Spanish or the MHS must have a bachelor's degree from an accredited institution, with at least 38 semester hours of undergraduate Spanish above the freshman level and satisfactory scores on the Graduate Record Examination. International students also must have acceptable scores on the TOEFL. Applicants lacking course requirements need to make up deficiencies before admission to the graduate program.

The MA requires at least 30 semester hours including 4 credits for thesis. The MHS requires at least 36 semester hours but no thesis. All degrees require satisfactory performance on the comprehensive examinations.

Candidates for the MHS must earn a minimum of 30 semester hours in their major. All master's degree candidates who are graduate assistants in Spanish are required to take FLSP 7090 every semester when they hold a teaching assistantship or equivalent. Credit from this course does not count toward the degree. For more information, check the Student Handbook available from the department.

A concentration consisting of 6 semester hours of graduate-level courses in a related field or fields may be earned as part of the MHS degree offered by the department.

A reading knowledge of one other foreign language is required. This knowledge may be demonstrated by examination by earning a passing score on the Foreign Language proficiency test, or by completion of the first-year sequence (or equivalent) of a Foreign Language with a grade of B or better.

Teaching assistantships are available to qualified students. For more information, please contact the department.

Statistics

(See Mathematics and Statistics)

Veterinary Clinical Sciences

(See Biomedical Sciences)

Wildlife Sciences - MS, PhD

Wildlife Sciences graduate programs are available for both MS and PhD degrees. Admission requirements parallel those for Forestry graduate programs.

The MS degree program requires a minimum of 30 hours beyond the bachelor degree at the graduate level, 21 hours of which must be in the major. A minimum of 4 but not more than 6 hours in Research and Thesis (WILD7990) is required. All MS students are required to take Research Methods (FOR7510) and Graduate Seminar (WILD7950). A research proposal and thesis based on original research are major components of the MS degree.

The PhD degree requires 60 semester hours beyond the bachelor degree. There must be a minimum of 30 semester hours in graded coursework at the 7000 level or above. Of the remaining 30 semester hours, 10 hours must be Research and Dissertation (WILD8990) and 20 hours of 6000 level or above. While some these 60 hours can be from previous graduate work, such as a MS degree, a minimum of 18 hours of graded coursework at the 6000 level or above must be completed at Auburn. All PhD students are required to take Research Methods (FOR7510) and Graduate Seminar (WILD7950). A research proposal and dissertation based on original research are required as major components of the PhD degree program.

Additional information on wildlife graduate programs and degree requirements can be found on the school's Web site at www.sfw.s.auburn.edu/gpo.

Zoology

(See Biological Sciences)

Interdepartmental

Biomedical Sciences - MS, PhD

All graduate faculty of the College of Veterinary Medicine participate in a college-wide graduate program leading to the master of science and the doctor of philosophy degrees in biomedical sciences (BMS or VBMS for curriculum descriptions). Participating departments are: Anatomy, Physiology and Pharmacology; Clinical Sciences; and Pathobiology.

Applicants to the program are required to meet entrance standards established by the College Graduate Program Committee, the Graduate School, and their intended area of study. Either a baccalaureate degree or the Doctor of Veterinary Medicine (DVM) degree or equivalent is required for admission.

The Department of Anatomy, Physiology and Pharmacology (APP) offers MS and PhD programs in Anatomy and Histology, Cardiovascular Physiology, Cell and Molecular Physiology, Endocrinology and Physiology, Membrane Biophysics, Neurophysiology, Pharmacology, Reproduction, and Toxicology. The Department of Clinical Sciences (DCS) offers MS Residency programs in Large Animal Surgery and Medicine, Radiology, Small Animal Surgery and Medicine, and an MS program in Veterinary Sports Medicine. APP and DCS co-sponsor MS and PhD programs in Endocrinology and Clinical Sciences. The Department of Pathobiology (PATHO) offers graduate study leading to MS and PhD degrees in Animal Genetic Diseases, Animal Parasitology, Cellular and Molecular Pathobiology, Hematology, Infectious Diseases, Oncology, and Pathobiology. DCS and PATHO graduate programs may be combined with post-DVM residency training. The BMS program offers specific enrichment activities including seminars and journal clubs, training in grant writing, participation in scientific meetings, and opportunities to present results of research at national and international meetings.

A graduate student advisory committee is appointed by the dean of the Graduate School for each student upon recommendation of the college's Associate Dean for Research and Graduate Studies. The student's faculty adviser usually serves as the chair of this committee, and the remaining members, selected from the graduate faculty, should have expertise relevant to the student's area of study. The advisory committee develops a plan of study which must be submitted to the college's Associate Dean for Research and Graduate Studies for approval and then to the dean of the Graduate School. Study programs are designed to meet the student's needs and interests while featuring research training and assuring a strong background in biochemistry, biophysics and/or molecular biology. Original research is required for all BMS graduates. Courses must be selected in conformity with the regulations of the college's BMS Graduate Program Committee and the Graduate School. For additional information, visit: www.vetmed.auburn.edu/index.pl/graduate_studies.

A dual degree program (DDP) allows students to pursue DVM and graduate degrees simultaneously in a time- and content-integrated manner. Graduates, particularly DVM/PhD graduates, will have strong backgrounds both in veterinary medicine and research so as to be well prepared for successful careers in academia, industry and/or specialty clinics. For the DDP program, students must be admitted into the College of Veterinary Medicine program via application to the Auburn University College of Veterinary Medicine and to the graduate program via application to the Auburn University Graduate School. Students already admitted to the Graduate School may apply for admission to the DVM program in

order to gain entry to the combined degree program. Such students must meet specific criteria to be allowed to pursue this course of study (www.vetmed.auburn.edu/index.pl/graduate_studies).

Economics - PhD

This is an interdepartmental program administered through the Department of Agricultural Economics and Rural Sociology and the School of Forestry and Wildlife Sciences. Information is available from the respective Graduate Program Officers.

Integrated Textile and Apparel Science - PhD

A joint PhD in Integrated Textile and Apparel Science is offered through the Department of Consumer Affairs, College of Human Sciences and the Department of Polymer and Fiber Engineering, College of Engineering. The focus is on the integration of textile science and apparel science within a research-based product management approach for application in the global textile industrial complex. The program offers course work (see also listings for the Department of Consumer Affairs and for Polymer and Fiber Engineering) and research ranging from polymer and fiber science, materials science, composite materials, geotextiles, biomedical materials, enzyme technology for fibers, polymer recycling, statistical process control, polymer and colorant related chemistry, apparel product development and design, design of the near environment, marketing of textile and apparel products, global production and distribution of textile and apparel products, and consumer behavior. Minors can be chosen to take advantage of the unique breadth of the program. A foreign language is not required. Entrants with limited undergraduate backgrounds in their chosen area may need to complete some undergraduate courses. Graduate teaching and research assistantships are available. Students may apply for admission and/or assistantships in either department. Graduate committees include faculty from both departments.

The PhD in Integrated Textile and Apparel Science requires a minimum of 30 semester hours of graded graduate level courses at the 6000 level or above; at least 18 of these hours must be completed at Auburn University. At least 30 additional hours of graduate level course work (6000 level or above) must be completed (may include ungraded 7990 and 8990). A ten-hour core is common to all PhD candidates. Courses include ITAS 7200, 8950, 8960, 8970 and 8990 Research and Dissertation (a minimum of 10 semester hours). Students must register for at least 2 semester hours of ITAS 8990 each semester they are working on dissertation research. Students select either the Consumer Affairs track or the Polymer and Fiber Engineering track with the major professor in the department selected. Students must pass a written and an oral General Examination after completing course work. A final oral defense of the dissertation is required.

Pharmaceutical Sciences - PhD

The graduate program in pharmaceutical sciences offers the terminal degree of doctor of philosophy. The primary purpose of the program is to establish a functionally integrated research degree program leading to the doctor of philosophy with a major in the pharmaceutical sciences and specialization in one of the following disciplines: medicinal chemistry, pharmaceuticals, pharmacology-toxicology or pharmacy care systems. The interdepartmental program is administered jointly through the Departments of Pharmacal Sciences and Pharmacy Care Systems.

Sociology - MS, MA

The interdepartmental graduate program in Sociology offers study and research leading to the degrees of master of arts and master of science. Anthropologists, criminologists, rural sociologists and sociologists make up the faculty. The program is administered by a three-member coordinating committee from the Department of Agricultural Economics and Rural Sociology, the Department of Sociology, and the Department of Sociology at Auburn University Montgomery.

Both thesis and non-thesis options are available. These two degree options are designed to serve the needs of differing types of students. The thesis option is recommended for students who might be interested in pursuing advanced graduate work and who are interested in gaining research experience. The non-thesis option is designed for individuals who are in mid-career, who wish to learn new skills in order to be more productive professionally, and have no intent on pursuing a more advanced graduate degree.

All students must take SOCY 7000, 7100, RSOC 7700. Students taking the thesis option are required to complete a total of 30 hours. Additionally, a thesis is also required. Students may apply up to six hours of Research

and Thesis (SOCY 7990) toward the 30-hour requirement. Students taking the non-thesis option will be required complete a total of 36 hours. Additionally, a major paper is required.

Graduate Minors

Biochemistry and Cell/Molecular Biology

Auburn University offers a graduate minor in Cell and Molecular Biosciences, administered by the Graduate School with faculty from the Cell and Molecular Biosciences Program. The CMB minor requires a suitable background in biochemistry (BCHE 7200, 7210 or equivalent) and the successful completion of at least nine credits from the CMB graduate curriculum. The minor offers in-depth instruction in animal, microbial and plant and cell and molecular biology, and is particularly designed for MS/PhD students in life sciences and allied fields whose thesis or dissertation research will benefit from a broader perspective of cell and molecular biology and bioinformatics. See www.auburn.edu/cmb for more information.

Community Planning

The Community Planning minor is open to graduate students in Building Science and Landscape Architecture, and to others only with permission. This minor affords students with interests in planning, development and urban design the opportunity to explore the discipline. Students must complete 9 credit hours of Community Planning coursework and notify CADC Student Services that they are completing the Planning minor.

Ecology

Ecology is an academic minor administered by the Graduate School in cooperation with faculty and departments that participate in the Auburn Group in Ecology (<http://www.auburn.edu/academic/ecology>). The Ecology minor is open to graduate students whose thesis or dissertation research will benefit from a broader and enriched perspective in the fundamentals and applications of the ecological sciences. For more information, students should contact any of the following coordinators.

Agronomy and Soils, Wes Wood	Funchess 202
Animal Sciences, Russ Muntifering	Upchurch 108
Biological Sciences, Jack Feminella.....	Funchess 331
Entomology and Plant Pathology, Kira Bowen	Rouse 209
Fisheries and Allied Aquacultures, Dennis DeVries.....	Swingle 311
Forestry and Wildlife Sciences, Ed Lowenstein.....	F&WS 4431

Economic Development

The economic development graduate minor provides a specialization in the theories and practice of economic development, primarily within the U.S and Alabama. It is an interdisciplinary minor offered by the faculty of participating departments (Agricultural Economics and Rural Sociology, Community Planning, Economics, and Political Science) and is administered by the Economic & Community Development Institute.

Students may attach the economic development graduate minor to their degrees in agricultural economics (MS and PhD), business administration (MBA), community planning (MCP), economics (MS), public administration (MPA), public administration and public policy (PhD), and rural sociology (MS). To earn the graduate minor, students must complete the program's basic course, Economic Development and Competition (POLI 7700), two elective courses selected from an approved list, and a one week non-credit economic development training course sponsored by the Economic & Community Development Institute. Contact the Economic & Community Development Institute for more information

Environmental Studies

This is an interdisciplinary academic minor administered by the Graduate School in cooperation with participating departments. It is open to any graduate student whose thesis or dissertation is in the environmental area. Participating departments include Aerospace Engineering, Agricultural Economics, Biosystems Engineering, Agronomy and Soils, Animal Sciences, Architecture, Biological Sciences, Chemical Engineering, Civil Engineering, Entomology, Fisheries and Allied Aquacultures, Forestry, Geography, Geology, Horticulture, Landscape Architecture, Pathobiology, Pharmacal Sciences, Physiology and Pharmacology, Plant Pathology, Psychology and Sociology.

Basic guidelines are:

1. The minor is open to any graduate student whose thesis or dissertation is environmentally oriented.
2. The student's department retains primary control over the student's program.

3. One committee member must be from outside the student's department and this member must be involved in environmental research.
4. Each student must take BIOL 3060, or the equivalent and RSOC 7650 (Natural Resources and the Environment) or an equivalent.
5. Each student must take at least three hours of environmental-related course work from outside the student's "broad group discipline."
6. Each student must take at least three hours of environmental-related course work from outside of the student's home department but with-in the student's "broad group discipline."
7. Each student must meet the degree requirements of the student's home department.
8. At the discretion of the student's advisory committee, graduate-level courses required for this program also may be counted towards the completion of other degree requirements.

For more information, contact Dr. Joe Touchton, Department of Agronomy and Soils, 202 Funchess Hall.

Golf Course Design

The graduate minor in Golf Course Design is open to graduate students in Landscape Architecture, Agronomy and Soils, and Landscape Horticulture, or others with permission. This minor provides students with additional coursework and field experience in landscape form and function for golf course construction. Specifically, the minor requires 19 credit hours in Landscape Architecture and Agronomy, including courses in Soil Resources and Conservation, Advanced Turfgrass Management, Landscape Construction, and Landscape Ecology. The minor is administered through the Department of Agronomy and Soils. For specific information students should contact Dr. Beth Guertal in Agronomy & Soils, eguertal@acesag.auburn.edu.

Plant Molecular Biology

Auburn University offers an academic minor in Plant Molecular Biology administered by the Graduate School in cooperation with the participating Molecular and Cellular Biology faculty housed in the three departments listed below. The minor is open to graduate students enrolled in these departments whose thesis/dissertation research addresses related studies and who will benefit from broader training in molecular biology. For more information, contact the following department coordinators:

Botany and Microbiology
Narendra Singh, Biological Sciences
Fenny Dane, Horticulture
Sadik Tuzun (Chair), Entomology and Plant Pathology

Sport Management

The purpose of the sport management minor is to provide master's degree students with the specialized knowledge of the sport industry and to prepare those students to work in sport organizations as administrators and managers. The minor is administered by the Graduate School. Participating departments include Kinesiology and Educational Foundations, Leadership and Technology. Students selecting the minor must satisfy the degree requirements for the master's degree programs in Kinesiology and Educational Foundations, Leadership and Technology. The Sport Management Minor Committee oversees the program and certifies completion. Minimum requirements are 12 semester hours of graduate course work in sport management, as identified by the Committee, 6 of which must be beyond the minimum hour requirements for the master's degree. At least 6 hours must be approved coursework in sports studies. The student must also complete a minimum of 3 semester hours of work-related experience in sport management (e.g., a practicum course). For additional information, please contact the department head of the participating units.

Statistics

Auburn University offers a graduate academic minor in Statistics administered by the Graduate School in cooperation with the Statistics Coordinating Committee and the Department of Mathematics and Statistics. The objective of the minor is to provide education and training for students whose graduate research includes a substantial amount of statistical methodology and/or data analysis. Students are required to complete 12 hours of graduate level statistics course work (selected from 6110, 6620, 7000, 7010, 7020, 7030, 7040, 7600, 7616, 7700, 7780, 7840, 7850, and 7860) and demonstrate the ability to apply statistical methodology to problems in research. Participants are required to have one committee member from outside the department who is a member of the Statistics Faculty. For more information, contact Dr. Mark Carpenter, Department of Mathematics and Statistics.

Urban Forestry

The Department of Horticulture (HORT) and the School of Forestry and Wildlife Sciences (SFWS) offer an Urban Forestry minor for graduate students. Urban Forestry is the design, establishment and maintenance of urban forests to enhance the economic value of cities and to provide a healthier environment for people. The minor promotes interdisciplinary studies and trains students for employment in the urban forestry arena. Auburn University, with its strengths in Horticulture, Forestry, Landscape Architecture, Community Planning and Agriculture and its proximity to major urban centers such as Atlanta, Birmingham, Columbus and Montgomery, offers a unique opportunity for urban forestry research and education.

To be eligible for the minor, students must be enrolled in the master of natural resources, master of agriculture, master of science or PhD degree program in HORT or SFWS. To complete the minor, students must:

1. Develop an advisory committee including faculty from both SFWS and HORT;
2. Complete a thesis/dissertation research project that pertains to urban forestry, or in the case of master of natural resources and master of agriculture degrees, complete an approved 3 to 4 credit hour directed study in urban forestry;
3. Complete FORY 6650, HORT/FORY 7850 and at least one undergraduate or graduate course in tree identification.
4. Complete at least nine semester hours from a list of approved core courses, at least one of which must be outside of the home department or school.

To obtain additional information, contact the Graduate Program Officer at the Department of Horticulture or the School of Forestry and Wildlife Sciences.