

School of Forestry and Wildlife Sciences

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THE SCHOOL OF FORESTRY AND WILDLIFE SCIENCES offers educational programs that prepare graduates for employment in a wide variety of forestry, wildlife, natural resources, and environmental management positions. Forests and their associated resources play a unique and increasingly important role in contemporary society through enhancement of both economic development and environmental quality. The School's programs emphasize understanding of interrelationships among the functions and values of renewable natural resources. This understanding is essential to their effective management and, ultimately, to the meeting of societal needs.

In keeping with the University's land-grant mission, the School's goals are to pursue excellence in education, research and extension/outreach/public service activities focused on the forests, wildlife and associated resources of Alabama and the southeastern United States. With respect to undergraduate education, this involves the preparation and graduation of individuals who have both the necessary skills for initial employment and the breadth and depth of educational background to support professional growth and continuing career advancement.

Curricula

The School of Forestry and Wildlife Sciences offers undergraduate curricula leading to Bachelor of Science (B.S.) degrees in Forestry and in Wildlife Sciences. A curriculum in Forest Engineering leading to the Bachelor of Biosystems Engineering (B.B.E.) is offered in conjunction with the College of Engineering. Note: Qualified Forestry students are encouraged to consider participation in the Forestry Scholars Program (see below). Forestry and Wildlife students with exceptional academic qualifications should also consider enrollment in the University's Honors College (see Honors College).

The Bachelor's programs in Forestry and Forest Engineering (the latter with certain additional Forestry courses, see School's web site, below) are accredited by the Society of American Foresters (SAF). SAF is the accrediting body recognized by the Council on Higher Education Accreditation as the accrediting agency for forestry education in the United States. Graduation from such SAF-accredited programs is required of all applicants for Registered Forester status in Alabama and several other states. The Forest Engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). Completion of the Wildlife Sciences degree program qualifies the graduates for certification as Associate Wildlife Biologists by The Wildlife Society. Completion of the Wildlife Pre-Vet concentration prepares students for Veterinary Medicine study.

Web Site

Students are encouraged to visit the School's web site (<http://www.forestry.auburn.edu>) and, in particular, its Student Services Office link (<http://sofserv.forestry.auburn.edu/ssso/>). These sites provide a wealth of elaborative information on the School's programs and faculty as well as updates on courses, scheduling, etc. The latter are sometimes necessary after the year's Bulletin is printed.

Admission

General Requirements

Freshman eligibility is determined by the University Admissions Office. However, since the requirements for forestry and wildlife education necessitate high school preparatory work of high intellectual quality and considerable breadth, the following program is recommended as minimum preparation: English (4 units), mathematics (including algebra, geometry, trigonometry and analytic geometry) (4 units), chemistry (1 unit), biology (1 unit), and history, literature or social science (2 or 3 units). Physics and foreign language are recommended but not required. Freshmen in Forestry are admitted to the Pre-Forestry (PFOR) curriculum. Wildlife Sciences students are admitted directly into the Wildlife Sciences curricula.

Transfers from other institutions must apply through the Admissions office. The exact placement of transfer students can be determined

only upon review of their transcripts by the School of Forestry and Wildlife Sciences.

Credit toward a degree in the School of Forestry and Wildlife Sciences will not be allowed for mathematics, chemistry or physics courses at a lower level than those specified in the curriculum for the degree sought. Students who are not prepared to take the courses prescribed may take lower level courses without degree credit.

Transfer credit for forestry and wildlife courses not considered equivalent to those required in the chosen curriculum may be substituted for elective credit. However, duplication of credit will not be allowed. Equivalency of forestry and wildlife courses will be determined by the Dean's Office. Students also may obtain credit for FORY and WILD courses on the basis of validating examinations. Arrangements for validating examinations must be made with the Dean's Office.

Forestry Requirements

The Professional Curriculum in Forestry (FORY) begins with the courses in the School of Forestry and Wildlife Sciences Summer Field Practicum (see below). Students are admitted to this curriculum once a year during spring semester. To be considered for admission, a student must have completed, or be enrolled in all required courses in mathematics, statistics, biology, microeconomics, English, and chemistry, plus an additional nine credit hours from any other courses in the Pre-Forestry curriculum (see below). In addition, students admitted to the professional forestry curriculum must have a minimum GPA, computed only on courses that can be used toward the undergraduate forestry degree (applicable courses), of 2.0.

Because admission to the professional forestry curriculum is limited, the number of students admitted may be fewer than the number of qualified applicants. Students who submit completed applications (including transcripts for transfer students) for admission to the Summer Field Practicum by March 15 each year will be ranked, using GPA in applicable courses. Applicants not selected may reapply in subsequent years.

Students in the FORY and FOEN curricula (see below) must attend the Forestry Practicum, which is scheduled for the summer term preceding the junior year and is held at the Solon Dixon Forestry Education Center near Andalusia.

To remain enrolled in the professional forestry curriculum, students must maintain minimum GPA standards as established by Auburn University.

Forest Engineering Requirements

Students are admitted to the professional Forest Engineering curriculum (FOEN) upon successful completion of the Pre-Forest Engineering (PFYE) program in the College of Engineering with a GPA of 2.2 or greater. (See additional detail on Forest Engineering program below.) Forest Engineering majors must meet School of Forestry and Wildlife Sciences requirements for admission to the Forestry Summer Field Practicum.

Wildlife Sciences Requirements

Admission requirements for the Wildlife Sciences curricula (WILD and WILD, PVET) are the same as for Forestry (above) with this exception: on-campus transfer students must have a cumulative Auburn GPA of at least 2.0 on all work attempted.

Forestry

The objectives of the forestry curriculum are to provide: 1) the fundamental knowledge regarding the resources that professional foresters typically manage and the multiple uses of those resources; 2) a general education integrating physical, social and biological sciences to prepare the forester for the role as steward of public and private forest resources; and 3) training and skills needed for initial forestry employment, as well as for advancement to higher levels of managerial responsibility. The forestry degree is appropriate for students who seek employment in any aspect of forest resource

management, from forest industry lands where timber production is typically the primary objective, to private non-industrial properties where "multiple use" predominates, to public lands where recreation or environmental protection is often paramount. The curriculum emphasizes biological, ecological, environmental and economic considerations in forest management.

The required courses in the professional forestry curriculum (FORY, see below) are designed to be taken in sequence and as a block. The work is integrated among courses in each semester and between semesters. Students must pay careful attention to the pre-requisites of the junior and senior year courses, which are strictly enforced by the School, to ensure successful completion of the forestry program.

Forestry students are required to meet the minimum requirements of one Emphasis area. The approved Emphases are listed following the FORY curriculum model (see below). More information about planning for completion of Emphases is available from the School of Forestry and Wildlife Sciences Student Services Office (see also SSO web site).

Curriculum in Pre-Forestry (PFOR)

| FR | F | S | | F | S |
|------|------|------|---|-------|----|
| BIOL | 1020 | | Principles of Biology | 4 | ** |
| BIOL | | 1030 | Organismal Biology | ** | ** |
| CHEM | 1010 | 1020 | Survey of Chemistry I & II | 4 | 4 |
| ENGL | 1100 | 1120 | English Composition I & II | 3 | 3 |
| MATH | | 1610 | Calculus I | ** | 4 |
| | | | Core Social Science | 3 | ** |
| | | | | 14 | 15 |
| SO | | | | | |
| ECON | | 2020 | Microeconomics | ** | 3 |
| ENGL | 2200 | 2210 | Great Books I & II | 3 | 3 |
| | | | Core History | 3 | 3 |
| | | | Core Philosophy | 3 | ** |
| AGRN | | 2040 | Introduction to Soils | ** | 4 |
| COMM | | 1010 | Communication Skills in Leadership | ** | 3 |
| STAT | 2510 | | Statistics | ** | 3 |
| ACCT | | | 2910 or PHYS 1000 | 3-4 | ** |
| | | | | 15/16 | 16 |

Courses in bold type above are required for admission to Forestry (FORY) curriculum.

Curriculum in Professional Forestry (FORY)

| SUMMER | | | | | |
|--------|------|------|---|----|----|
| FOEN | 3000 | | Forest Operations | 1 | |
| FOEN | 3040 | | Forest Surveying | 3 | |
| FORY | 3020 | | Forest Biology | 2 | |
| FORY | 3050 | | Field Mensuration | 3 | |
| FORY | 3060 | | Forest Management | 1 | |
| | | | | 10 | |
| JR | | | | | |
| | | | Core Fine Arts | ** | 3 |
| FOEN | | 6700 | Harvesting | ** | 3 |
| FOPR | 3390 | | Introduction Wood Science | 3 | ** |
| FORY | 3100 | | Dendrology | 3 | ** |
| FORY | 3150 | | Forest Health | 3 | ** |
| FORY | 3180 | 4190 | Forest Measurements I & II | 3 | 3 |
| FORY | 3200 | | Forest Tree Physiology | 3 | ** |
| FORY | | 4230 | Forest Ecology | ** | 3 |
| FORY | | 6400 | Forest Economics | ** | 3 |
| | | | | 15 | 15 |
| SR | | | | | |
| | | | Emphasis | 6 | 6 |
| FORY | | 4970 | Senior Project | ** | 3 |
| FORY | 6230 | | Silviculture | 3 | ** |
| FORY | 6410 | | Forest Management | 3 | ** |
| FORY | | 6420 | Forest Policy | ** | 3 |
| | | | Elective | 3 | ** |
| | | | | 15 | 12 |
| | | | TOTAL HOURS - 127-128 | | |

Courses in bold type above are components of the Forestry major.

Forest Emphases

To provide students an opportunity to develop strengths in areas of particular personal and professional interest, the School has developed a series of course groupings called Emphases which, beyond the broad base of Junior year core courses, afford opportunity for specialized study. Current emphases are: Forest Land Management, Forest Operations, Forest Products, Urban Forestry, Business, Forest Biology, Wildlife Management, Spatial Analysis, and Policy. Emphases are selected by students at the close of the Summer Practicum.

These choices are taken into account by the student and his/her faculty adviser as the program of study for completion of the professional (FORY) program is developed. Details on courses in each Emphasis (both required and optional, 12 credit hours minimum) are available from the School's Student Services Office and web site.

Scholars Program in Forestry

The Scholars Program in Forestry provides qualified students an opportunity to explore areas besides the Emphases listed above in which they are particularly interested and/or to prepare for graduate study. Students with at least 3 semesters remaining in the Forestry curriculum, and with at least a 3.3 GPA overall or 3.0 in courses in the Forestry core curriculum, may apply for admission to the program by petition to the student's academic adviser and the Dean. Under the guidance of the faculty adviser, and with Dean's approval, the student develops an Emphasis to fit his/her unique interests. The Scholars Emphasis must include FORY 4990 in addition to a minimum of 12 semester hour credits in courses at the 3000 level or above.

Forest Engineering

The Biosystems Engineering Department in conjunction with the College of Engineering and the School of Forestry and Wildlife Sciences offers the only accredited degree in Forest Engineering in the southeastern United States.

This program is committed to preparing students for productive professional careers in the forest products industry and related natural resource and environmental systems sectors. Specific educational objectives of the program are to produce graduates with: the skills necessary to solve engineering problems associated with the management of forest and natural resources and the production of wood fiber and the manufacture and utilization of wood-based products; the ability to combine engineering skills with training in forest sciences to solve problems and to work in multi-disciplinary teams; the ability to analyze problems critically and conduct scientific experimentation and engineering analysis; and the ability to continue developing professionally throughout their career.

The curriculum is coordinated by the College of Engineering and the School of Forestry and Wildlife Sciences. Students register in the College of Engineering and are assigned academic advisers in Biosystems Engineering and in Forestry. Beginning students should apply to the College of Engineering and complete the Pre-Forest Engineering program. (See the College of Engineering section for the curriculum model, and detailed admission and degree requirements.)

Wildlife Sciences

The Wildlife Sciences degree program provides a broad biological education that is specifically designed to meet the needs of students interested in a career involving management of wildlife. Graduates are employed with state or federal wildlife agencies, environmental consulting firms, private conservation organizations, and private land management companies. Because many jobs require a Master's degree, the program is designed primarily to prepare students for graduate studies in wildlife biology and management. Students must complete designated courses in the major (see bold type in curriculum models below) with at least a 2.0 GPA.

Curriculum in Wildlife Science (WILD)

| FR | F | S | | F | S |
|------|------|------|--|----|----|
| BIOL | 1020 | | Principles of Biology | 4 | ** |
| BIOL | | 1030 | Organismal Biology | ** | 4 |
| CHEM | 1030 | 1040 | General Chemistry I & II | 3 | 3 |
| CHEM | 1031 | 1041 | General Chemistry Lab I & II | 1 | 1 |
| ENGL | 1100 | 1120 | English Composition I & II | 3 | 3 |
| MATH | 1610 | | Calculus I | 4 | ** |
| COMP | | 1000 | Personal Computer Applications | ** | 2 |
| | | | Elective | ** | 3 |
| | | | | 15 | 16 |
| SO | | | | | |
| PHYS | | 1000 | Foundations of Physics | ** | 4 |
| | | | Core History | 3 | 3 |
| BIOL | 3000 | | Genetics | 4 | ** |
| BIOL | | 3030 | Evolution & Systematics | ** | 3 |
| BIOL | | 3060 | Principles of Ecology | ** | 4 |
| CHEM | 2030 | | Survey of Organic Chemistry | 3 | ** |
| STAT | 2510 | | Statistics | 3 | ** |
| WILD | 2050 | | Wildlife Conserv. History & Law | 3 | ** |

| | | | | | |
|-------------|-------------|-------------|--|-----------|-----------|
| | | | | 16 | 14 |
| JR | | | | | |
| ENGL | 2200 | 2210 | Great Books I & II..... | 3 | 3 |
| | | | Core Philosophy..... | ** | 3 |
| | | | Core Social Science Group 1 & 2..... | 3 | 3 |
| AGRN | 3040 | | Basic Soils..... | 4 | ** |
| BIOL | | 6120 | Systematic Botany..... | ** | 4 |
| BIOL | | 6140 | Plant Ecology..... | ** | 4 |
| WILD | 3280 | | Principles Wildlife Management..... | 3 | ** |
| WILD | 3281 | | Principles Wildlife Management Lab..... | 1 | ** |
| | | | | 14 | 17 |
| SR | | | Core Fine Arts..... | 3 | ** |
| | | | Technical Writing..... | 3 | ** |
| ENGL | 3040 | | Public Speaking..... | 3 | ** |
| COMM | 1000 | | Wildlife Resource Philos. & Policy..... | ** | 3 |
| WILD | 6270 | 6290 | Wildlife Ecology & Mngt I & II..... | 3 | 3 |
| WILD | 6280 | 6290 | Wildlife Ecology & Mngt Lab I & II..... | 1 | 1 |
| WILD | 6281 | 6291 | Fld. Biol Elective Experience..... | 4 | 4 |
| | | | Natural Resource/Biology Elective..... | ** | 3 |
| | | | | 17 | 14 |
| | | | TOTAL HOURS - 123 | | |

Professional Electives - see adviser for approved course listing.

**Wildlife Sciences,
Pre-Veterinary Medicine Concentration**

It is possible to be admitted to the College of Veterinary Medicine (CVM) upon completion of the minimum requirements listed below. If students are admitted to the CVM prior to completion of the full four years, they may obtain a Bachelor of Science degree in this concentration after successful completion of the freshman year in the CVM. (Students obtaining the B.S. in this manner may not be certifiable as Associate Wildlife Biologists.) The minimum requirements for admission to the CVM are incorporated in the first three years in the Wildlife Sciences, Pre-Veterinary Medicine Concentration. All minimum requirements must be completed by the end of the spring semester preceding the date of admission to CVM. (See the College of Veterinary Medicine section for additional information.)

Curriculum in Wildlife Science/Pre-Vet Concentration

| | | | | | |
|-------------|-------------|-------------|--|-----------|-----------|
| FR | F | S | | F | S |
| BIOL | 1020 | | Principles of Biology..... | 4 | ** |
| BIOL | | 1030 | Organismal Biology..... | ** | 4 |
| CHEM | 1030 | 1040 | General Chemistry I & II..... | 3 | 3 |
| CHEM | 1031 | 1041 | General Chemistry Lab I & II..... | 1 | 1 |
| ENGL | 1100 | 1120 | English Composition I & II..... | 3 | 3 |
| MATH | 1610 | | Calculus I..... | 4 | ** |
| | | | Core History..... | ** | 3 |
| | | | | 15 | 14 |
| SO | | | Organic Chemistry I & II..... | 3 | 3 |
| CHEM | 2070 | 2080 | Organic Chemistry Lab I & II..... | 1 | 1 |
| CHEM | 2071 | 2081 | Great Books I & II..... | 3 | 3 |
| ENGL | 2200 | 2210 | General Physics..... | 4 | 4 |
| PHYS | 1500 | 1510 | Core Social Science Group 1 & 2..... | 3 | 3 |
| | | | Personal Computer Applications..... | ** | 2 |
| COMP | | 1000 | Wildlife Conservation History & Law..... | 3 | ** |
| WILD | 2050 | | | 17 | 16 |
| JR | | | Core Philosophy..... | ** | 3 |
| | | | Core History..... | ** | 3 |
| | | | Core Fine Arts..... | 3 | ** |
| BCHE | 3200 | | Prin. Biochemistry..... | 3 | ** |
| COMM | 1000 | | Public Speaking..... | 3 | ** |
| BIOL | | 3200 | Gen. Microbiology..... | ** | 4 |
| BIOL | | 3000 | Genetics..... | 4 | ** |
| BIOL | | 3030 | Evolution & Systematic..... | ** | 3 |
| WILD | 3060 | | Principles of Ecology..... | ** | 4 |
| WILD | 3280 | | Principles Wildlife Management..... | 3 | ** |
| WILD | 3281 | | Principles Wildlife Management Lab..... | 1 | ** |
| | | | | 17 | 17 |
| SR | | | Statistics..... | 3 | ** |
| STAT | 2510 | | Vertebrate Biodiversity..... | 4 | ** |
| BIOL | 4020 | | Systematic Botany..... | ** | 4 |
| BIOL | 6120 | 6290 | Wildlife Ecology & Mngt I & II..... | 3 | 3 |
| WILD | 6280 | 6290 | Wildlife Ecology & Mngt Lab I & II..... | 1 | 1 |
| WILD | 6281 | 6291 | Natural Resource/Biology Elective..... | ** | 4 |
| | | | Elective..... | 4 | ** |
| | | | | 15 | 12 |
| | | | TOTAL HOURS - 123 | | |

Professional Electives - see adviser for approved course listing.