Summer
3 - HORT 2710 Internship2 or
3 - HORT 4710 Advanced Internship2

Junior Year
First Semester
4 - ENT 3010 Insect Biology and Diversity
3 - PES 3100 Plant Disease and People
Business Requirement3
3 - Horticulture Specialization Requirement4
Soil Science Requirement6

Second Semester
3 - AGM 4020 Landscape Drainage and Irrigation
3 - BIOL 4010 Plant Physiology
1 - BIOL 4020 Plant Physiology Lab.
3 - HORT 4200 Applied Turfgrass Physiology
2 - PLPA (ENT) 4060 Diseases and Insects of Turfgrasses
Horticulture Specialization Requirement4

Summer
1 - PLPA (ENT) 4080 Diseases and Insects of Turfgrasses Laboratory

Senior Year
First Semester
3 - HORT 4090 Senior Capstone Course
3 - HORT 4120 Advanced Turfgrass Management
3 - PES 4460 Soil Management
Business Requirement3
Related Science Requirement6

Second Semester
3 - HORT (PES) 4330 Landscape and Turf Weed Management
3 - PES 4520 Soil Fertility
1 - PES 4530 Soil Fertility Lab
Business Requirement3
Related Science Requirement6

123 Total Semester Hours

WILDLIFE AND FISHERIES BIOLOGY

Bachelor of Science
Increased interest in conservation of natural resources and the environment and demand for seafood products has resulted in areas becoming increasingly technical and requiring highly qualified wildlife and fisheries biologists. Greatest demands for graduates are in the areas of management, research, survey, and regulatory positions with state and federal agencies; industrial research and quality control laboratories; conservation, recreation, and other public service agencies; and private enterprises.

The Bachelor of Science degree program in Wildlife and Fisheries Biology provides a solid foundation for many careers in the sciences. The curriculum is strong in basic and applied sciences, communication skills, and the social sciences. In addition, three credit hours are available for field training with appropriate natural resource agencies. Students may satisfy coursework requirements for professional certification by the Wildlife Society and/or the American Fisheries Society.

For students interested in conservation biology, water, and natural resources, the Department of Forestry and Environmental Conservation also administers the Conservation Biology and Natural Resources Management Concentrations within the Environmental and Natural Resources degree program. See pages 52-53 for program details.

Combined Bachelor of Science/
Master of Science Degree Program
Under this plan, students may reduce the time necessary to earn both degrees by applying graduate credits to both undergraduate and graduate program requirements. Students are encouraged to obtain the specific requirements for the dual degree from the Department of Forestry and Environmental Conservation as early as possible in their undergraduate program, as a number of required courses have prerequisites not normally taken by Wildlife and Fisheries Biology majors. Enrollment guidelines and procedures can be found under Academic Regulations in this catalog.

Freshman Year
First Semester
3 - BIOL 1030 General Biology I
1 - BIOL 1050 General Biology Lab. I
4 - CH 1010 General Chemistry
1 - ENV 1010 Intro. to Env. and Natural Res. I
3 - MATH 1020 Intro. to Mathematical Analysis
3 - Oral Communication Requirement2

Second Semester
3 - BIOL 1040 General Biology II
1 - BIOL 1060 General Biology Lab. II
4 - CH 1020 General Chemistry or
4 - PHYS 2000 Introductory Physics
3 - ENGL 1030 Accelerated Composition
3 - STAT 2300 Statistical Methods I
1 - Elective

Sophomore Year
First Semester
4 - FNR 2400 Soil Information Systems
2 - FOR 2050 Dendrology
3 - FOR 2210 Forest Biology
3 - WFB 3000 Wildlife Biology
1 - WFB 3010 Wildlife Biology Lab.
Arts and Humanities (Non-Lit.) Requirement6

Second Semester
3 - ENGL 3140 Technical Writing
3 - FOR 2060 Forestry Ecology
1 - GEN 3000 Fundamental Genetics
3 - WFB 3500 Principles of Fish and Wildlife Biol.
Social Science Requirement6

Junior Year
First Semester
3 - BIOL 3030 Vertebrate Biology
4 - BIOL 3200 Field Botany
3 - WFB 4100 Wildlife Management Techniques
Approved Requirement2
Arts and Humanities (Literature) Requirement6

Second Semester
3 - WFB (BIOL) 3130 Conservation Biology
3 - WFB 4120 Wildlife Management
3 - WFB 4160 Fishery Biology
3 - WFB 4400 Non-Game Wildlife Management
3 - WFB 4620 Wetland Wildlife Biology

Senior Year
First Semester
3 - AGRB 2570 Natural Resources, Environment, and Economics
4 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - FOR (ENR) 4340 GIS for Natural Resources
Approved Requirement2

Second Semester
1 - WFB 4990 Natural Resources Seminar
3 - WFB 4300 Wildlife Conservation Policy
Approved Requirement2
Policy and Law Requirement2

121 Total Semester Hours

1See General Education Requirements. Six of these credit hours must also satisfy the Cross-Cultural Awareness and the Science and Technology in Society Requirements.
2Internship must be completed within one year after successfully passing HORT 2120/2130. Prior approval is required for internships, and a GPA of 2.0 is required for registration. Students are strongly encouraged to take multiple internships.
3See advisor. Select from approved departmental list. A total of nine hours is required.
4Turfgrass majors are required to take six hours of HORT specialization courses. Turfgrass internship courses do not count as HORT specialization courses.
5In addition to PES 2020, 4460, and 4520, and 4530, students must select one additional soils course from PES 4030, 4080 or 4900.
6Choose nine hours from the recommended list of courses.

*Note: Turfgrass majors must earn a C or better in all HORT courses. Courses may be repeated as often as necessary to achieve the minimum grade.