



# Wildlife Biology, B.S. *major*

The Wildlife Biology major is designed for students preparing for careers with natural resources agencies or for graduate school in wildlife biology.

With careful selection of liberal education courses, graduates can fulfill the educational requirements for certification as an Associate Wildlife Biologist by The Wildlife Society.

Required Credits: 72  
Required GPA: 2.25

## I REQUIRED BIOLOGY CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BIOL 1211 Introductory Biology I (4 credits)
- BIOL 1212 Introductory Biology II (4 credits)
- BIOL 2610 General Ecology (3 credits)

## II REQUIRED WILDLIFE BIOLOGY CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BIOL 3610 Principles of Wildlife Management (3 credits)
- BIOL 3880 Wildlife Management Techniques (4 credits)
- BIOL 4510 Ornithology (4 credits)
- BIOL 4520 Mammalogy (4 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- BIOL 3400 Fish & Wildlife Law and Administration (3 credits)  
*or* ENVR 4210 Environmental Law and Policy (3 credits)
- BIOL 2360 Genetics (4 credits)  
*or* BIOL 3310 Entomology (4 credits)  
*or* BIOL 4534 Ichthyology (4 credits)  
*or* BIOL 4210 Parasitology (4 credits)
- BIOL 3630 Conservation Biology (3 credits)  
*or* GEOG 3630 Conservation Biology (3 credits)  
*or* BIOL 4330 Upland Wildlife Management (3 credits)
- BIOL 2339 Ethics of Fish and Wildlife Management (3 credits)  
*or* BIOL 3420 Human Dimensions of Wildlife and Fisheries Management (3 credits)  
*or* GEOG 3570 Public Lands Planning (3 credits)

SELECT TWO OF THE FOLLOWING, WITH AT LEAST ONE BEING BIOL 3730 OR BIOL 3830:

- BIOL 3730 Plant Diversity (4 credits)
- BIOL 3830 Aquatic Plants and Algae (4 credits)
- BIOL 3720 Plant Form and Function (4 credits)
- BIOL 4623 Forest Ecology (4 credits)

## III CAPSTONE PROJECT

The Biology capstone project, completed in the senior year, provides a culminating experience that integrates the knowledge and skills learned in previous courses and applies them to a scholarly activity. Examples of capstone projects may include original research projects, internships with state or federal agencies, shadowing experiences with professionals, or successfully passing professional/ graduate school entrance exams. The capstone project must be designed or chosen by the student in consultation with a faculty mentor or advisor, who must approve the project before work begins. Students should consult with their faculty mentor or advisor before their senior year commences. All capstone projects will include a written and oral component (except for professional/graduate school entrance exams).

The capstone project may be completed in one of the following ways (0-4 credits):

1. Students using a professional or graduate entrance exam as their capstone project must register for this course. Students must place in at least the 60th percentile on their exam to successfully complete this course.
  - BIOL 4800 Advanced Project Certification (0 credit)
2. Complete BIOL 4894 OR BIOL 4895 (2 credits):
  - BIOL 4894 Advanced Research Project I (2 credits)
  - BIOL 4895 Advanced Research Project II (2 credits)
3. Complete BIOL 4894 and BIOL 4895 (2 credits each):
  - BIOL 4894 Advanced Research Project I (2 credits)
  - BIOL 4895 Advanced Research Project II (2 credits)

## IV REQUIRED COURSES IN RELATED FIELDS

COMPLETE THE FOLLOWING COURSES:

- CHEM 1111 General Chemistry I (4 credits)  
*or* CHEM 2211 Principles of Chemistry I (4 credits)
- CHEM 1112 General Chemistry II (4 credits)  
*or* CHEM 2212 Principles of Chemistry II (4 credits)

SELECT 1 OF THE FOLLOWING COURSES:

- STAT 2610 Applied Statistics (4 credits)
- PSY 3401 Basic Statistics for Research (4 credits)

SELECT 1 OF THE FOLLOWING COURSES:

- PHYS 1101 General Physics I (4 credits)
- PHYS 2101 Physics I (5 credits)
- GEOL 1110 Physical Geology (4 credits)
- BIOL 3120 Soils (4 credits)
- GEOL 3120 Soils (4 credits)

SELECT 1 OF THE FOLLOWING COURSES:

- MATH 2471 Calculus I (5 credits)
- ENVR 4220 Sampling and Analysis (4 credits)
- GEOG 4265 Spatial Analysis (3 credits)
- PSY 4403 Advanced Statistics and Research Design (4 credits)

## SUGGESTED SEMESTER SCHEDULE FOR WILDLIFE BIOLOGY MAJOR, B.S.

Freshman

- BIOL 1211 Introductory Biology I (4 credits)
- BIOL 1212 Introductory Biology II (4 credits)
- CHEM 1111 General Chemistry I (4 credits)  
*or* CHEM 2211 Principles of Chemistry I (4 credits)
- CHEM 1112 General Chemistry II (4 credits)  
*or* CHEM 2212 Principles of Chemistry II (4 credits)
- Liberal Education requirements

Sophomore

- BIOL 2610 General Ecology (3 credits)
- STAT 2610 Applied Statistics (4 credits)  
or PSY 3401 Basic Statistics for Research (4 credits)
- Wildlife Biology degree requirements
- Liberal Education requirements
- Consult with your academic advisor

#### Junior

- Wildlife Biology degree requirements
- Complete Liberal Education requirements
- Consult with your Biology academic advisor

#### Senior

- Capstone Project
- Complete Wildlife Biology degree requirements
- Consult with your Biology academic advisor