

## WILDLIFE &amp; FISHERIES

# Wildlife & Fisheries

## Major

### See related programs:

- BIOLOGY
  - PRE-HEALTH OPTION
  - BIOTECHNOLOGY
  - ENVIRONMENTAL SCIENCE
- ENVIRONMENTAL ANALYSIS & PLANNING
- ETHNOBOTANY
- FORESTRY
- INTERPRETIVE BIOLOGY & NATURAL HISTORY

#### Contact:

Sunshine Brosi, Assistant Professor,  
Department of Biology

#### Professors:

Raesly (Chair), Seddon, Serfass

#### Associate Professors:

Ammer, Fritz, Li, Pegg

#### Assistant Professors:

Brosi, Fiscus, Keller,  
Lambert, Puthoff,  
Robertson-Thompson

- Students completing the professional programs as listed meet all educational requirements for their certification by The Wildlife Society or American Fisheries Society (depending upon the option chosen).
- Students can choose to add a fisheries option to either wildlife option.
- Students will meet educational requirements for scientific research positions in Wildlife Biology or Fisheries Biology for federal and state agencies.
- Students intending to further their education in graduate school are also encouraged to take one semester of organic chemistry.
- Minors are available in biology, forestry, ethnobotany, geography, and sustainability studies.

	WILDLIFE		PROFESSIONAL FISHERIES
	PROFESSIONAL	GENERAL	
Hours Required in Biology:	45-48	45-50	29
Hours Required in Other Departments:	30-32	20-23	29
<b>Total Hours Required:</b>	<b>75-77</b>	<b>68-70</b>	<b>58</b>

## Summary of Requirements for Major in Wildlife & Fisheries

### Major

#### 1. Core Curriculum: (36 hours)

BIOL 149 General Biology I (GEP Group C)  
 BIOL 150 General Biology II  
 BIOL 200 Scientific Investigation and Communication  
 BIOL 340 General Ecology  
 BIOL 350 Genetics  
 BIOL 492 Wildlife-Fisheries Seminar (Capstone)  
 CHEM 201 General Chemistry I (GEP Group C)  
 CMST 102/112 Introduction to Human Communication  
 ENGL 339 Scientific Writing (Core Skill 2)  
 or ENGL 338 Technical Writing (Core Skill 2)  
 GEOG 103/113 Physical Geography (GEP Group C)  
 MATH 209/219 Elements of Applied Probability and Statistics (Core Skill 3)

#### 2. Wildlife Core Requirements: (23-24 hours)

*Wildlife Management:*  
 BIOL 450 Ecology and Management of Wildlife Populations

#### *Wildlife Techniques:*

BIOL 230 Wildlife Techniques

#### *Wildlife Biology, take two of the following:*

BIOL 406 Ornithology  
 BIOL 422 Herpetology  
 BIOL 423 Mammalogy

#### *Anatomy and Physiology, take one of the following:*

BIOL 302 Animal Physiology  
 BIOL 427 Comparative Anatomy

#### *Botany, take one of the following:*

BIOL 305 Dendrology  
 BIOL 314 Plant Taxonomy

#### *Policy, Administration, and Law, take one of the following:*

BIOL 425 Forest Ecology and Conservation  
 GEOG 472 Environmental Planning  
 GEOG 473 Environmental Law

#### 3. Requirements for Professional Wildlife Track:

1. Core Curriculum: (36 hours – listed above)
2. Wildlife Core Requirements: (23-24 hours – listed above)
3. Professional Certification Core Requirements (16-17 hours)

#### *Quantitative Sciences:*

BIOL 414 Quantitative Analysis of Vertebrate Populations  
 MATH 220 Calculus for Applications I  
 or MATH 236 Calculus I (Core Skill 3)  
 CHEM 202 General Chemistry II

#### *Botany, one additional course from:*

BIOL 303 Plant Physiology  
 BIOL 305 Dendrology  
 BIOL 314 Plant Taxonomy  
 BIOL 312 Morphology of Vascular Plants

#### *Policy, Administration, and Law, one additional course from:*

BIOL 425 Forest Ecology and Conservation  
 GEOG 472 Environmental Planning  
 GEOG 473 Environmental Law

#### 4. Requirements for General Wildlife Track

1. Core Curriculum: (36 hours – listed above)
2. Wildlife Core Requirements: (23-24 hours – listed above)
3. General Wildlife Track Requirements (9-11 hours)

MATH 102 College Algebra (Core Skill 3)  
 or MATH 120 Pre-Calculus (Core Skill 3)  
 or any math course above 219

#### *Plus two additional courses from:*

BIOL 302 Animal Physiology  
 BIOL 309 General Entomology  
 BIOL 334 General Animal Behavior  
 BIOL 406 Ornithology  
 BIOL 411 Invertebrate Zoology  
 BIOL 412 General Parasitology  
 BIOL 417 Ichthyology  
 BIOL 422 Herpetology  
 BIOL 423 Mammalogy  
 BIOL 426 Vertebrate Zoology  
 BIOL 427 Comparative Anatomy

#### 5. Requirements for Professional Fisheries Track

1. Core Curriculum: (36 hours – listed above)
2. Professional Fisheries Track Requirements: (22 hours)

CHEM 202 General Chemistry II  
 BIOL 417 Ichthyology  
 BIOL 420 Fish Management and Culture  
 BIOL 430 Introductory Limnology  
 CHEM 420 Environmental Chemical Analysis  
 GEOG 430 Surface Water Hydrology