

Wildlife & Fisheries

Major

See related programs:

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

Contact:

Sunshine Brosi, Associate Professor,
Department of Biology

Professors:

Ammer, Fritz, Raesly, Seddon,
Serfass (Chair)

Associate Professors:

Brosi, Keller, Li, Pegg, Puthoff

Assistant Professors:

Lambert, Studinski, Taylor, Vrentas

- 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
	PROFESSIONAL	GENERAL	FISHERIES
Hours Required in Biology:	49-52	49-54	33
Hours Required in Other Departments:	30-32	20-23	29
Total Hours Required:	79-81	72-74	58

Summary of Requirements for Major in Wildlife & Fisheries

Major

1. Core Curriculum: (40 hours)

- BIOL 149 General Biology I (GEP Group C)
- BIOL 160 General Zoology
- BIOL 161 General Botany
- 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 109/110 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 119 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