Wildlife & Fisheries

MAJOR

SEE RELATED PROGRAMS:

BIOLOGY
- PRE-HEALTH OPTION
- MOLECULAR BIOLOGY
- ENVIRONMENTAL SCIENCE

ENVIRONMENTAL ANALYSIS & PLANNING
ETHNOBOTANY
FORESTRY
INTERPRETIVE BIOLOGY & NATURAL HISTORY

Contact: Thomas Lambert, Associate Professor, Department of Biology
Professors: Li, Raesly, Seddon, Serfass
Associate Professors: Brosi, Keller, Lambert, Puthoff (chair), Taylor
Assistant Professors: Hocking, Hughes, Sheehan

- 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.

Program Requirements

<table>
<thead>
<tr>
<th>Hours Required in Other Departments:</th>
<th>30-32</th>
<th>20-23</th>
<th>29</th>
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<tbody>
<tr>
<td>Total Hours Required:</td>
<td>79-81</td>
<td>72-74</td>
<td>61-62</td>
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Requirements for Major in Wildlife & Fisheries

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 IBNH Seminar (Capstone)
   BIOL 494  Field Experience in Biology
   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 405  Dendrology
   BIOL 409  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: (40 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 313  Plant Evolution and Diversity
BIOL 403  Plant Physiology
BIOL 405  Dendrology
BIOL 409  Plant Taxonomy

*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: (40 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 402  Evolution
   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: (40 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
   MATH 220  Calculus for Applications I
   or MATH 236 Calculus I (Core Skill 3)