Imagine a career managing songbird or elk populations, setting waterfowl harvest regulations or conducting research on endangered species! You can realize your career goals through our wildlife ecology and management option.

Make an appointment with one of our faculty advisers to learn more about options in our fisheries and wildlife major.

**Career Path**

Fisheries Research and Management, Wildlife Research and Management, City Planning and Policy, Refuge Manager, Conservation Officer, Geospatial Information Services, Marine Biology, Endangered Species Management, Private Lands Habitat Manager, Water Quality Specialist, Park Ranger, Environmental Education, Zoo Animal Keeper

**Special Emphasis Courses**


**Internships Available**

Our students have enjoyed internships with the Nebraska Game and Parks Commission, the U.S. Fish and Wildlife Service, Wyoming Game and Fish, U.S. Geological Survey, Omaha’s Henry Doorly Zoo and other state and federal agencies.
## Wildlife Ecology and Management Option Requirements

**32 Hours**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 386 Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>Terrestrial Vertebrate Animal Courses: Select two courses from: NRES 476 Mammalogy, BIOS 475 Ornithology, or NRES 474 Herpetology</td>
<td>7-8</td>
</tr>
<tr>
<td>NRES 450 Biology of Wildlife Populations</td>
<td>4</td>
</tr>
<tr>
<td>NRES 208 Applied Climate Sciences or METR 100 Weather and Climate</td>
<td>3</td>
</tr>
<tr>
<td>Additional written Communication Course: Select one course from: Any ACE 1 course</td>
<td>3</td>
</tr>
<tr>
<td>Additional policy course: Select 1 course from the list of policy courses under Fisheries and Wildlife Courses</td>
<td>3</td>
</tr>
<tr>
<td>GIS Course: Select one course from: NRES 312 Introduction to Geospatial Information Sciences, NRES 412 Introduction to Geographic Information Systems, NRES 418 Introduction to Remote Sensing, NRES 427 Introduction to Global Positioning Systems, GEOG 217 Mapping Science in the 21st Century, GEOG 317 Cartography I: Introduction to Cartography or NRES 420 Applications of Remote Sensing in Agriculture and Natural Resources</td>
<td>2-4</td>
</tr>
<tr>
<td>Select one from: NRES 399 Independent Research, NRES 496 Independent Study (1-5 cr), NRES 497 Career Experience (1-6 cr), NRES 499 Thesis Research (3-6 cr), NRES 499H Honors Thesis (3-6 cr)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Wildlife Ecology and Management Option Electives (9 Hours):**

Select from (at least 6 hours must be 300- or 400-level):

**Agricultural Economics courses**
- AECN 265 Resource Economics (3 cr)

**Agronomy courses**
- AGRO 204 Resource-Efficient Crop Management (3 cr)
- AGRO 340 Range Management and Improvement (3 cr)
- AGRO 489 Urbanization of Rural Landscapes (3 cr)

**Biological Sciences courses**
- BIOS 373 Biopsychology (3 cr)
- BIOS 381 Invertebrate Zoology (4 cr)
- BIOS 454 Ecological Interactions (4 cr)
- BIOS 462 Animal Behavior (3 cr)
- BIOS 468 Field Animal Behavior (4 cr)
- BIOS 470 Prairie Ecology (4 cr)
- BIOS 472 Evolution (4 cr)
- BIOS 487 Field Parasitology (4 cr)
- BIOS 488 Natural History of the Invertebrates (4 cr)
- BIOS 497 Geomicrobiology (4 cr)

**Chemistry courses**
- CHEM 251 Organic Chemistry

**Entomology courses**
- ENTO 402/402L Aquatic Insects/Lab
- ENTO 411 Field Entomology

**Management courses**
- MANG 300 Management Essentials for Contemporary Organizations (3 cr)

**Mathematics courses**
- MATH 107 Calculus II (4 cr)
- MATH 208 Calculus III (4 cr)
- MATH 238 Mathematical Methods for Biology & Medicine (5 cr)

**Natural Resources courses**
- NRES 104 Climate in Crisis (3 cr)
- NRES 1101 Intro to Conservation Biology (3 cr)
- NRES 270 Biological Invaders (3 cr)
- NRES 308 Biogeography (3 cr)
- NRES 316 Case Studies in Theoretical Ecology (3 cr)
- NRES 348 Wildlife Damage Management (3 cr)
- NRES 388 Employment Seminar (1 cr)
- NRES 423 Integrated Resource Management (3 cr)
- NRES 428 Leadership in Public Organizations (3 cr)
- NRES 434 Environmental Education & Interpretation (3 cr)
- NRES 448 Advanced Topics in Wildlife Damage Management (2 cr)
- NRES 459 Limnology (4 cr)
- NRES 463 Fisheries Science (4 cr)
- NRES 468 Wetlands (4 cr)
- NRES 484 Water Resources Seminar (1 cr)
- NRES 487 Introduction to Landscape Ecology (3 cr)
- NRES 489 Ichthyology (4 cr)
- NRES 492 Natural Resources Study Tours (variable credit)
- NRES 495 Grasslands Seminar (1-2 cr)

**Philosophy courses**
- PHIL 225 Environmental Ethics (3 cr)

**Physics courses**
- PHYS 142 Elementary General Physics II (5 cr)
- PHYS 211 General Physics I (4 cr)
- PHYS 212 General Physics II (4 cr)

**Political Science courses**
- POLS 210 Bureauocracy & the American Political System (3 cr)

**Rangeland Ecosystems courses**
- RNGE 444 Ecosystem Monitoring & Assessment (3 cr)

And/or any optional courses listed but not taken under the Base Science Courses, Fisheries and Wildlife Courses, or Option Requirements headings in this program.

**Free electives: 4 hours**

This option is designed for students considering careers in wildlife biology, wildlife ecology, wildlife research, or wildlife management. Completion of this program also provides excellent preparation for graduate study.

This option was designed to meet the certification requirements of The Wildlife Society as an Associate Wildlife Biologist. Students should refer to The Wildlife Society’s guidelines for certification during their academic career to keep current with any changes in these requirements. See [www.wildlife.org](http://www.wildlife.org) for more details.

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*NP Course may not be taken as Pass/No Pass by FWL majors.*