NATURAL RESOURCES & ENVIRONMENTAL SCIENCES: FISH, WILDLIFE & CONSERVATION BIOLOGY, BS

for the degree of Bachelor of Science Major in Natural Resources & Environmental Sciences, Fish, Wildlife & Conservation Biology Concentration

Fish, Wildlife and Conservation Biology emphasizes the ecology, conservation, and sustainable management of fish and wildlife species and communities. It is designed for students interested in understanding interactions among humans, wild animals, and their habitats. The concentration includes coursework in conservation of threatened and endangered species, management of harvested species, aquatic ecosystem conservation, animal behavior, vertebrate natural history, identification of animals and plants, and advanced ecology.

for the degree of Bachelor of Science Major in Natural Resources & Environmental Sciences, Fish, Wildlife & Conservation Biology Concentration

### Prescribed Courses including Campus General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHET 105 &amp; CMN 101</td>
<td>Writing and Research and Public Speaking (or equivalent) (see College Composition I requirement)</td>
<td>6-7</td>
</tr>
<tr>
<td>CMN 111 &amp; CMN 112</td>
<td>Oral &amp; Written Comm I and Oral &amp; Written Comm II</td>
<td></td>
</tr>
</tbody>
</table>

#### Composition I and Speech

- Select from campus approved list

#### Advanced Composition

- Select from campus approved list

#### Cultural Studies

- Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.

#### Foreign Language

Coursework at or above the third level is required for graduation.

#### Quantitative Reasoning I

Select one of the following:

- MATH 220 Calculus
- MATH 221 Calculus I
- MATH 234 Calculus for Business I

#### Quantitative Reasoning II

Select one of the following:

- ACE 261
- CPSC 241 Intro to Applied Statistics
- ECON 202 Economic Statistics I
- PSYC 235 Intro to Statistics
- SOC 280 Intro to Social Statistics
- STAT 100 Statistics

#### Natural Sciences and Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 103</td>
<td>General Chemistry I and General Chemistry Lab I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 104 &amp; CHEM 105</td>
<td>General Chemistry II and General Chemistry Lab II</td>
<td>4</td>
</tr>
<tr>
<td>IB 103</td>
<td>Introduction to Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>IB 104 or IB 150 &amp; IB 151</td>
<td>Animal Biology or Organismal &amp; Evolutionary Biol and Organismal &amp; Evol Biol Lab</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Select one of the following:

- GGIS 103 Earth’s Physical Systems

Information listed in this catalog is current as of 11/2022
Geology

- GEOL 107 Physical Geology
- PHYS 101 College Physics: Mech & Heat
- PHYS 211 University Physics: Mechanics
- MCB 100 Introductory Microbiology

**Humanities and the Arts**

Select from campus approved list. 6

**Social and Behavioral Sciences**

- ACE 100 Introduction to Applied Microeconomics
  or ECON 102 Microeconomic Principles

Select one additional course from campus approved list. 3-4

**Natural Resources and Environmental Sciences Required (Core)**

- NRES 102 Introduction to NRES 3
- NRES 201 Introductory Soils 4
- NRES 219 Applied Ecology 3
- NRES 287 Environment and Society 3
- NRES 325 Natural Resource Policy Mgmt 3
- NRES 348 Fish and Wildlife Ecology 3
- NRES 421 Quantitative Methods in NRES 3
- NRES 454 GIS in Natural Resource Mgmt 4
- NRES 456 Integrative Ecosystem Management 3
- NRES 285 Field Experience 1,2

One additional Field Experience course

- NRES 285 Field Experience (repeatable)
- NRES 293 Professional Internship
- NRES 294 Resident Internship
- NRES 295 Undergrad Research or Thesis
- NRES 396 UG Honors Research or Thesis

**ACES Required**

- ACES 101 Contemporary Issues in ACES 2

**Required Concentration**

Concentration prescribed courses. See specific requirements for each concentration listed below. 19-29

**Total Hours**

126

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 407</td>
<td>Wildlife Population Ecology</td>
</tr>
<tr>
<td>NRES 409</td>
<td>Fishery Ecol and Conservation</td>
</tr>
</tbody>
</table>

**Concentration Elective Requirements**

One Organismal Biology/Identification Course

- IB 461 Ornithology
- IB 462 Mammalogy
- IB 463 Ichthyology
- IB 464 Herpetology

One Specialization Course

- NRES 362 Ecology of Invasive Species
- NRES 418 Wetland Ecology & Management
- NRES 419 Env and Plant Ecosystems
- NRES 420 Restoration Ecology
- NRES 429 Aquatic Ecosystem Conservation
- NRES 465 Landscape Ecology
- NRES 485 Stream Ecosystem Management
- IB 329 Animal Behavior
- IB 451 Conservation Biology

*Information listed in this catalog is current as of 11/2022*
One Plant Classification/Identification Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 302</td>
<td>Dendrology</td>
</tr>
<tr>
<td>NRES 415</td>
<td>Native Plant ID and Floristics</td>
</tr>
<tr>
<td>HORT 301</td>
<td></td>
</tr>
<tr>
<td>IB 335</td>
<td>Plant Systematics</td>
</tr>
</tbody>
</table>

Total Concentration-Required Hours: 19-20

for the degree of Bachelor of Science Major in Natural Resources & Environmental Sciences, Fish, Wildlife & Conservation Biology Concentration

---

department website: https://nres.illinois.edu/
department faculty: https://nres.illinois.edu/directory/faculty (https://nres.illinois.edu/directory/faculty/)
overview of college admissions & requirements: Agricultural, Consumer & Environmental Sciences (http://catalog.illinois.edu/schools/aces/academic-units/#text)
college website: https://aces.illinois.edu/

Information listed in this catalog is current as of 11/2022