Conservation Biology

Conserve Biodiversity

The Bachelor of Science in Conservation Biology option focuses on understanding threats to biodiversity—such as habitat loss, over-harvest, or invasive species—and providing managers and policy makers with a clear, defensible options for alleviating these threats. Students in this degree might assess the impact of declining genetic diversity in endangered mountain gorillas or evaluate strategies for minimizing conflict between humans and expanding grizzly bear populations in the American West. In all cases, the goal is to promote biodiversity conservation through a science-based, open and fair evaluation of ecological processes and our role within ecosystems as humans. Coursework is interdisciplinary with an interdisciplinary grounding in ecology, organismal biology, and social sciences. The degree is research-driven, culminating in a guided, hands-on senior thesis experience. Graduates in this degree are university professors, research specialists with organizations like the Nature Conservancy or government agencies, environmental lawyers, and consultants in the private sector.

Recommended 4-Year Plan | 2022/2023

FRESHMAN

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>BIOL 114 - Organisms &amp; Environments</td>
<td>Science 4</td>
</tr>
<tr>
<td>ENGL 101* - Writing &amp; Rhetoric I</td>
<td>Writ Comm 3</td>
</tr>
<tr>
<td>MATH 143 - College Algebra</td>
<td>Math 3</td>
</tr>
<tr>
<td>NR 101 - Exploring Natural Resources</td>
<td>2</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>Humanities 3</td>
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</table>

TOTAL 15

SOPHOMORE

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>BIOL 115/115L - Cells &amp; the Evolution of Life &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>FORREM 221 OR WLF 220 - Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>OR BIOL 314 - Ecology &amp; Population Biology</td>
<td>3</td>
</tr>
<tr>
<td>FOR 235 - Society &amp; Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>STAT 251* - Statistical Methods</td>
<td>3</td>
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<tr>
<td>NRS 200 - ECB Seminar</td>
<td>1</td>
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TOTAL 14

SOPHOMORE

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<tr>
<th>COURSE</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>CHEM 101/101L - Intro to Chemistry &amp; Lab OR CHEM 111/111L - Principles of Chemistry &amp; Lab</td>
<td>Science 4</td>
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<tr>
<td>COMM 101 - Fundamentals of Oral Communication</td>
<td>3</td>
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<tr>
<td>General Education Requirement</td>
<td>Humanities 3</td>
</tr>
<tr>
<td>ENGL 102* - Writing &amp; Rhetoric II (ENGL 101)</td>
<td>Writ Comm 3</td>
</tr>
<tr>
<td>MATH 180 - Survey of Calculus OR MATH 170- Calculus I</td>
<td>Math 4</td>
</tr>
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TOTAL 17

University of Idaho | College of Natural Resources
875 Perimeter Drive MS 1136 | Moscow, ID 83844 | 208-885-6434
## Recommended 4-Year Plan | 2022/2023

### Conservation Biology

#### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NR 300 - ECB Thesis Seminar</td>
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</tr>
<tr>
<td>WLF 440 - Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>FOR 220 - Forest Biology &amp; Dendrology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 452 - Environmental Philosophy</td>
<td>3</td>
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</tbody>
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**Total Credits:** 13

#### Senior

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FISH/FOR/NRS/REM/WLF 497 - Senior Thesis</td>
<td>1-3</td>
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<tr>
<td>International Course</td>
<td>3</td>
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<tr>
<td>American Diversity</td>
<td>3</td>
</tr>
<tr>
<td>Restrictive Elective</td>
<td>3</td>
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</tbody>
</table>

**Total Credits:** 15

### Restricted Electives:

**Quantitative Resource Analysis - Choose One Course:**

- ANTH 417 - Social Data Analysis (3 cr)
- FOR/NRS 472 - Remote Sensing of the Environment (4 cr)
- GEOG 385* - GIS Primer (3 cr)
- NRS 310 - Social Research Methods in Conservation (4 cr)
- REM 410* - Principles of Vegetation Measurement and Assessment (2 cr)

**Ecology - Choose Six Credits with at Least 2 Credits from FISH 315, 415, 450, 451; REM 460; AND/OR WLF 315.**

- BIO 478 - Animal Behavior (3 cr)
- ENT 469 - Introduction to Forest Insects (2 cr)
- FISH 314 - Fish Ecology (3 cr)
- FISH 315 - Fish Ecology Field Techniques and Methods (2 cr)
- FISH 415* - Limnology (4 cr)
- FISH 450 - Riparian Ecology and Management (3 cr)
- FISH 450 - Ecology & Conservation of Freshwater Invertebrates (2 cr)
- FISH 451 - Freshwater Invertebrate Field Method (2 cr)
- FOR 328* - Fire Ecology and Management (3 cr)
- FOR 330 - Terrestrial Ecosystem Ecology (4 cr)
- GEOG 410 - Biogeography (3 cr)
- GEOG 430 - Climate Change Ecology (3 cr)
- PLSC 410 - Invasive Plant Biology (2 cr)
- REM 440 - Restoration Ecology (3 cr)
- REM 459* - Rangeland Ecology (3 cr)
- REM 460 - Integrating GIS and Field Studies in Rangelands (2 cr)
- WLF 314 - Ecology of Terrestrial Vertebrates (3 cr)
- WLF 315 - Wildlife Techniques Laboratory (2 cr)

**Resource Management - Choose One Course:**

- FISH 418 - Fisheries Management (4 cr)
- FISH 420 - Fire Effects and Management (3 cr)
- FOR 424 - Silvicultural Principles and Practices (4 cr)
- FOR 462 - Watershed Science and Management (3 cr)
- NRS 386 - Managing Complex Environmental Systems (3 cr)
- NRS 476 - Environmental Project Management and Decision Making (4 cr)
- NRS 490 - Wilderness and Protected Area Management (3 cr)
- PLSC 419 - Plant Community Restoration Methods (2 cr)
- REM 456* - Integrated Rangeland Management (3 cr)
- WLF 480 - Ecological Restoration (3 cr)
- WLF 492 - Wildlife Management (4 cr)

**Social/Political Science - Choose Two Courses:**

- AIST 344 - Indigenous Ways of Knowing (3 cr)
- COMM 410* - Conflict Management (3 cr)
- ENV S 225 - International Environmental Issues Seminar (3 cr)
- ENV S 438 - Principles of Sustainability (3 cr)
- FOR 310 - Indigenous Culture and Ecology (3 cr)
- FOR 484* - Forest Policy and Admin (2 cr)
- GEOG 420 - Land, Resources, and Environment (3 cr)
- HIST 424 - American Environmental History (3 cr)
- IS 222 - International Environmental Governance (3 cr)
- NRS 311 - Public Involvement in Natural Resource Management (3 cr)
- NRS/POLS 364 - Politics of the Environment (3 cr)
- NRS/ENVS 386 - Managing Complex Environmental Systems (3 cr)
- NRS 387 - Environmental Communication Skills (3 cr)
- NRS/POLS 462 - Nature Resource Policy (3 cr)
- SOC 465 - Environmental Justice (3 cr)

**Organismal Biology - Choose One Course:**

- BIO 483 - Mammalogy (3 cr)
- BIO 489 - Herpetology (4 cr)
- FISH 481 - Ichthyology (3 cr)
- WLF 482 - Ornithology (3 cr)

*Students must achieve a "C" or better to graduate in the following seven core courses: BIO 421, NR 200, PHIL 452, REM 429, WLF 440, and WLF 448.

This academic plan is intended as a guideline only and does not replace academic advising. 120 credits minimum are required for a B.S. Conservation Biology. Minimum of 36 upper-division credits required to graduate. See course catalog and department website for complete degree requirements and additional information.

* Both Online & In-Person options are offered
+ Online only offered

Read to Get Started?
Email cnradvising@uidaho.edu

University of Idaho
Department of Fish and Wildlife Sciences