FISH AND WILDLIFE CONSERVATION OPTION

This option is offered within the following major(s):

- Natural Resources - College of Forestry (http://catalog.oregonstate.edu/college-departments/forestry/forestsociety/natural-resources-bs-hbs)

Also available at OSU-Cascades and via Ecampus.

This option prepares students for a career in the broad arena of natural resource and wildlife conservation. It emphasizes understanding the relationship between animal species and their habitat requirements and the ability to apply this knowledge to the management of ecosystems as a means of conserving fish and wildlife.

Minimum of 40 credits is required with at least 20 upper-division credits.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BI 373</td>
<td>*FIELD METHODS IN MARINE ECOLOGY</td>
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<td>BI 375</td>
<td>FIELD METHODS IN ECOLOGICAL RESTORATION</td>
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<tr>
<td>FW 255</td>
<td>FIELD SAMPLING OF FISH AND WILDLIFE</td>
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<td>FW 493</td>
<td>FIELD METHODS FOR MARINE RESEARCH</td>
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<tr>
<td>NR 325</td>
<td>SCIENTIFIC METHODS FOR ANALYZING NATURAL RESOURCE PROBLEMS</td>
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<tr>
<td>RNG 441</td>
<td>RANGELAND ANALYSIS</td>
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Foundations of Conservation

Select 12–14 credits from below:

- FES 342 | FOREST TYPES OF THE NORTHWEST |
- or FOR 111 | INTRODUCTION TO FORESTRY |
- FES 440 | WILDLAND FIRE ECOLOGY |
- or FOR 346 | TOPICS IN WILDLAND FIRE |
- or FOR 436 | WILDLAND FIRE SCIENCE AND MANAGEMENT |
- FES 452 | BIODIVERSITY CONSERVATION IN MANAGED FORESTS |
- or FW 452 | BIODIVERSITY CONSERVATION IN MANAGED FORESTS |
- or FW 370 | CONSERVATION GENETICS |
- FW 251 | PRINCIPLES OF FISH AND WILDLIFE CONSERVATION |

Fish and Wildlife Biology

Select 9–12 credits from below:

- BI 302 | BIOLOGY AND CONSERVATION OF MARINE MAMMALS |
- or FW 445 | ECOLOGICAL RESTORATION |
- FW 311 | ORNITHOLOGY |
- FW 315 | ICHTHYOLOGY |
- FW 317 | MAMMALOGY |
- FW 320 | INTRODUCTORY POPULATION DYNAMICS |
- FW 321 | APPLIED COMMUNITY AND ECOSYSTEM ECOLOGY |
- FW 331 | ECOLOGY OF MARINE AND ESTUARINE BIRDS |

Habitat Management

Select 2 courses from below (6–9 credits)

- FES 445 | ECOLOGICAL RESTORATION |
- or FW 445 | ECOLOGICAL RESTORATION |
- FW 326 | INTEGRATED WATERSHED MANAGEMENT |
- FW 426 | COASTAL ECOLOGY AND RESOURCE MANAGEMENT |
- FW 434 | ESTUARINE ECOLOGY |
- or OC 434 | ESTUARINE ECOLOGY |
- FW 435 | *WILDLIFE IN AGRICULTURAL ECOSYSTEMS |
- FW 456 | FRESHWATER ECOLOGY AND CONSERVATION |
- FW 479 | WETLANDS AND RIPARIAN ECOLOGY |
- RNG 341 | RANGELAND ECOLOGY AND MANAGEMENT |
- RNG 455 | RANGELAND HYDROLOGY AND MANAGEMENT |
- SOIL 366 | ECOSYSTEMS OF WILDLAND SOILS |
- or SOIL 388 | SOIL SYSTEMS AND PLANT GROWTH |
- or SOIL 466 | SOIL MORPHOLOGY AND CLASSIFICATION |

Natural Resource Policy

Select 1 course from below (3 credits)

- FW 350 | *ENDANGERED SPECIES, SOCIETY AND SUSTAINABILITY |
- FW 415 | FISHERIES AND WILDLIFE LAW AND POLICY |
- FW 439 | *HUMAN DIMENSIONS OF FISHERIES AND WILDLIFE MANAGEMENT |
- FOR 462 | NATURAL RESOURCE POLICY AND LAW |

Electives

Select 2 courses from below (6–8 credits)

- BI 347 | *OCEANS IN PERIL |
- BI 421 | AQUATIC BIOLOGICAL INVASIONS |
- or FW 421 | AQUATIC BIOLOGICAL INVASIONS |
- ENSC 479 | **ENVIRONMENTAL CASE STUDIES |
- FW 323 | MANAGEMENT PRINCIPLES OF PACIFIC SALMON IN THE NORTHWEST |
- or FW 360 | *ORIGINS OF F&W MANAGEMENT-EVOLUTION, GENETICS, AND ECOLOGY |
- or FW 470 | *ECOLOGY AND HISTORY: LANDSCAPES OF THE COLUMBIA BASIN |
- FW 366 | ENVIRONMENTAL CONTAMINANTS IN FISH AND WILDLIFE |
- FW 419 | THE NATURAL HISTORY OF WHALES AND WHALING |
- FW 427 | PRINCIPLES OF WILDLIFE DISEASES |
- FW 431 | |
- FW 439 | *HUMAN DIMENSIONS OF FISHERIES AND WILDLIFE MANAGEMENT |
- FW 451 | AVIAN CONSERVATION AND MANAGEMENT |
- FW 454 | *FISHERY BIOLOGY |
- FW 462 | ECOSYSTEM SERVICES |
- FW 465 | MARINE FISHERIES |
- FW 467 | ANTARCTIC SCIENCE AND CONSERVATION |
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<tr>
<td>FW 469</td>
<td>METHODS IN PHYSIOLOGY AND BEHAVIOR OF MARINE MEGAFANA</td>
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<td>FW 471</td>
<td>ENVIRONMENTAL PHYSIOLOGY OF FISHES</td>
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<td>FW 474</td>
<td>EARLY LIFE HISTORY OF FISHES</td>
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<td>FW 475</td>
<td>WILDLIFE BEHAVIOR</td>
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<td>FISH PHYSIOLOGY</td>
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<td>Z 477</td>
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Total Hours: 39-50

* Baccalaureate Core Course (BCC)
^ Writing Intensive Course (WIC)