

**NATURAL RESOURCES B.S. DEGREE
Specialization Option Checklist:
Fish and Wildlife Conservation**

Date Prepared : By:

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| **Student Name** | **Student ID#** | **Current Institution/Campus/Major** |
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| COMMENTS: |

\*= Baccalaureate Core / ^ = WIC (Writing Intensive Course / + = Core Ed (for students admitted Summer 2025 onward)

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| **FISH AND WILDLIFE CONSERVATION SPECIALIZATION REQUIREMENTS** |
| **MEASUREMENT AND ANALYSIS (3 - 4 credits ) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Field Methods in Ecological Restoration (4) | BI 375 |  |  |
|  | Field Sampling of Fish and Wildlife (3) | FW 255 |  |  |
|  | Foundations of Geospatial Science and GIS (4) | GEOG 201 |  |  |
|  | GIScience I: Geographic Information Systems and Theory (4) | GEOG 360 |  |  |
|  | Quantitative Geospatial Analysis and Modeling (4) | GEOG 361 |  |  |
|  | Scientific Methods for Analyzing Natural Resource Problems (3) | NR 325 |  |  |
|  | Vegetation Monitoring and Analysis (4) | RNG 441 |  |  |
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| **FOUNDATIONS OF FISH AND WILDLIFE CONSERVATION (12- 14 credits) REQUIRED** | **Fulfilled by:** | **Note #** |
|  | Ecology (3) | BI 370 |  |  |
| ***OR*** Applied Community and Ecosystem Ecology (3) | FW 321 |
|  | Wildland Fire Ecology (3) | FES 440 |  |  |
| ***OR*** Topics in Wildland Fire (3) | FOR 346 |
| ***OR*** Wildland Fire Science Management (4) | FOR 436 |
|  | Biodiversity Conservation in Managed Forests (3) | FES/FW 452 |  |  |
| ***OR*** Conservation Genetics (4) | FW 370 |
|  | Principles of Fish and Wildlife Conservation (3) | FW 251 |  |  |
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| **FISH AND WILDLIFE BIOLOGY (9 - 12 credits) CHOOSE THREE** | **Fulfilled by:** | **Note #** |
|  | Biology and Conservation of Marine Animals (HMSC) (3) | FW 302 |  |  |
|  | Ornithology (3) | FW 311 |  |  |
|  | Ichthyology (3) | FW 315 |  |  |
|  | Mammalogy (3) | FW 317 |  |  |
|  | Intro to Population Dynamics (4) | FW 320 |  |  |
|  | Applied Community Ecosystems Ecology (3) | FW 321 |  |  |
|  | Ecology of Marine and Estuarine Birds (HMSC) (4) | FW 331 |  |  |
|  | Fish Ecology (4) | FW 473 |  |  |
|  | Wildlife Ecology (4) | FW 481 |  |  |
|  | Environmental Physiology (3) | Z 423 |  |  |
|  | Herpetology (3) | Z 473 |  |  |
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| **HABITAT MANAGEMENT (6 - 9 credits) CHOOSE TWO** | **Fulfilled by:** | **Note #** |
|  | Ecological Restoration (4) | FES/FW 445 |  |  |
|  | Integrated Watershed Management (3) | FW 326 |  |  |
|  | Coastal Ecology and Resource Management (HMSC) (5) | FW 426 |  |  |
|  | Estuarine Ecology (4) | FW/OC 434 |  |  |
|  | Freshwater Ecology and Conservation (5) | FW 456 |  |  |
|  | Wetlands & Riparian Ecology (3) | FW 479 |  |  |
|  | Rangeland Ecology and Management (3) | RNG 341 |  |  |
|  | Riparian Ecohydrology and Management (4) | RNG 455 |  |  |
|  | Ecosystems of Wildland Soils (4) | SOIL 366 |  |  |
|  ***OR*** Soils Systems and Plant Growth (3) | SOIL 388 |
|  ***OR*** Soil Morphology and Classification (4) | SOIL 466 |
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| **NATURAL RESOURCE POLICY (3 credits) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Public Lands Policy and Management (3) | FES 486^ |  |  |
|  | Endangered Species, Society and Sustainability(3) | FW 350\* |  |  |
|  | Fisheries and Wildlife Law and Policy (3) | FW 415 |  |  |
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| **ELECTIVE (3-4 credits) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Introduction to Plant Biology (4) | BOT 220+\* |  |  |
|  | Plant Systematics (4) | BOT 321 |  |  |
|  | Fungi in Society (3) | BOT 324\* |  |  |
|  | Plant Ecology (4) | BOT 341\* |  |  |
|  | Mycology (4) | BOT 461 |  |  |
|  | Environmental Case Studies (4) | ENSC 321^ |  |  |
|  | Management Principles of Pacific Salmon in the Northwest (3) | FW 323 |  |  |
|  | Environmental Contaminants in Fish and Wildlife (3) | FW 366 |  |  |
|  | Environmental Physiology of Fishes (4) | FW 371 |  |  |
|  | The Natural History of Whales and Whaling (HMSC) (3) | FW 419 |  |  |
|  | Aquatic Biology Invasions (4) | FW 421 |  |  |
|  | Principles of Wildlife Disease (4) | FW 427 |  |  |
|  | Herpetofauna Conservation and Management (3) | FW 448 |  |  |
|  | Avian Conservation and Management (3) | FW 451 |  |  |
|  | Fishery Biology (4) | FW 454 |  |  |
|  | Ecosystems Services (3) | FW 462  |  |  |
|  | Antarctic Science and Conservation (4) | FW 467 |  |  |
|  | Methods in Physiology and Behavior in Marine Megafauna (3) | FW 469 |  |  |
|  | Early Life History of Fishes (4) | FW 474 |  |  |
|  | Wildlife Behavior (4) | FW 475 |  |  |
|  | Fish Physiology (4) | FW 476 |  |  |
|  | Aquaculture (3) | FW 497^ |  |  |
|  | Aquaculture Laboratory (3) | FW 498 |  |  |
|  | Scientific Methods for Analyzing Natural Resource Problems (3) | NR 325 |  |  |
|  | Biological Oceanography (4) | OC 340 |  |  |
|  | Habitat Analysis I: Habitat Use and Movement (3) | RNG 457 |  |  |
|  | Animal Behavior (3) | Z 350 |  |  |
|  | Biology of Insects (4) | Z 365 |  |  |
|  | Aquatic Entomology (4) | Z 477 |  |  |
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|  | Note: Up to 6 credits of appropriate internships, projects or study abroad may be used to fulfill credit requirements in this option as approved by petition. |

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| **A Specialization Option is required for the Natural Resources major. (Minimum of 37 credits with at least 20 of those being upper division credits.) The minimum GPA required for the specialization is 2.25. This option is available on the Corvallis Campus, OSU-Cascades Campus and Ecampus.** |

Revised 3.25. NR 4.0 for students admitted in Summer 2025 onward.