

**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** |
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| **Email Address** |  |

\*=Baccalaureate Core / ^ =WIC (Writing Intensive Course

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| **FISH AND WILDLIFE CONSERVATION SPECIALIZATION OPTION REQUIREMENTS** |
| **MEASUREMENTS (4 credits ) CHOOSE 1** | **Fulfilled by:** | **Note #** |
| \_\_\_ Field Methods in Marine Ecology (3) | BI 373^ |  |  |
| \_\_\_ Field Methods in Ecological Restoration (4) | BI 375 |  |  |
| \_\_\_ Field Sampling of Fish and Wildlife (3) | FW 255 |  |  |
| \_\_\_ Field Methods in Marine Research (3) | FW 493 |  |  |
| \_\_\_ Scientific Methods for Analyzing Natural Resource Problems (3) | NR 325 |  |  |
| \_\_\_ Rangeland Analysis (4) | RNG 441 |  |  |
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| **FOUNDATIONS OF CONSERVATION (12 - 14 credits) REQUIRED** | **Fulfilled by:** | **Note #** |
| \_\_\_ Forest Types of the Pacific Northwest (3) | FES 342 |  |  |
|  \_\_\_ ***OR*** Introduction to Forestry (3) | FOR 111 |  |  |
| \_\_\_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 #** |
| \_\_\_ Ornithology (3) | FW 311 |  |  |
| \_\_\_ Ichthyology (3) | FW 315 |  |  |
| \_\_\_ Mammalogy (3) | FW 317 |  |  |
| \_\_\_ Biology and Conservation of Marine Animals (HMSC) (3) | FW/BI 302 |  |  |
| \_\_\_ Intro to Population Dynamics (4) | FW 320 |  |  |
| \_\_\_ Applied Community Ecosystems Ecology (3) | FW 321 |  |  |
| \_\_\_ Ecology of Marine and Estuarine Birds (HMSC) (4) | FW 331 |  |  |
| \_\_\_ Wildlife Ecology (4) | FW 481 |  |  |
| \_\_\_ Fish Ecology (4) | FW 473 |  |  |
| \_\_\_ 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 & Resource Management (HMSC) (5) | FW 426 |  |  |
| \_\_\_ Estuarine Ecology (4) | FW/OC 434 |  |  |
| \_\_\_ Wildlife in Agricultural Ecosystems (3) | FW 435^ |  |  |
| \_\_\_ Limnology (5) | FW 456 |  |  |
| \_\_\_ Wetlands & Riparian Ecology (3) | FW 479 |  |  |
|  \_\_\_ ***OR*** Riparian Ecohydrology and Management (4) | RNG 455 |  |  |
| \_\_\_ Rangeland Ecology and Management (3) | RNG 341 |  |  |
| \_\_\_ 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 #** |
| \_\_\_ Endangered Species, Society and Sustainability (3) | FW 350\* |  |  |
| \_\_\_ Fisheries and Wildlife Law and Policy (3) | FW 415 |  |  |
| \_\_\_ Human Dimensions of Fish and Wildlife (3) | FW 439^ |  |  |
| \_\_\_ Natural Resource Policy and Law (3) | FOR 462 |  |  |
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| **ELECTIVES (6 - 8 credits) CHOOSE TWO** | **Fulfilled by:** | **Note #** |
| \_\_\_ Oceans in Peril (3) | BI 347^ |  |  |
| \_\_\_ Environmental Case Studies (4) | ENSC 479^ |  |  |
| \_\_\_ Management Principles of Pacific Northwest Salmon (3) | FW 323 |  |  |
|  \_\_\_ ***OR*** Ecology and History of the Columbia Basin (3) | FW/HSTS 470\* |  |  |
|  \_\_\_ ***OR*** Origins of FW Management (3) | FW 360\* |  |  |
| \_\_\_ Environmental Contaminants in Fish and Wildlife (3) | FW 366 |  |  |
| \_\_\_ The Natural History of Whales and Whaling (HMSC) (3) | FW 419 |  |  |
| \_\_\_ Aquatic Biology Invasions (4) | FW/BI 421 |  |  |
| \_\_\_ Principles of Wildlife Disease (4) | FW 427 |  |  |
| \_\_\_ Dynamics of Marine Biological Resources (4) | FW 431 |  |  |
| \_\_\_ Human Dimensions of Fisheries and Wildlife Management | FW 439^ |  |  |
| \_\_\_ Avian Conservation and Management (3) | FW 451 |  |  |
| \_\_\_ Fishery Biology (4) | FW 454^ |  |  |
| \_\_\_ Ecosystems Services (3) | FW 462  |  |  |
| \_\_\_ Marine Fisheries (4) | FW 465 |  |  |
| \_\_\_ Antarctic Science and Conservation (4) | FW 467 |  |  |
| \_\_\_ Methods in Physiology and Behavior in Marine Megafauna (3) | FW 469 |  |  |
| \_\_\_ Environmental Physiology of Fishes (4) | FW 471 |  |  |
| \_\_\_ 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 |  |  |
| \_\_\_ Natural Resource Problems and Solutions (3) | NR 202 |  |  |
| \_\_\_ Scientific Methods for Analyzing Natural Resource Problems (3) | NR 325 |  |  |
| \_\_\_ Biodiversity: Causes, Consequences and Conservation (3) | Z 349\* |  |  |
| \_\_\_ 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 40 credits with at least 20 of those being upper division credits.) Required minimum GPA for the specialization is 2.25. This option is available on the Corvallis Campus, OSU-Cascades Campus and Ecampus.** |

Revised 3.3.2018 for Natural Resources curriculum version 3.0 effective summer 2018