

**NATURAL RESOURCES B.S. DEGREE   
Specialization Option Checklist:  
Wildland Fire Ecology**

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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| **WILDLAND FIRE ECOLOGY SPECIALIZATION REQUIREMENTS** | | | | |
| **MEASUREMENT AND ANALYSIS (3-4 credits) CHOOSE ONE** | | | **Fulfilled by:** | **Note #** |
|  | Field Methods in Plant Ecology (4) | BOT 440 |  |  |
|  | Forest Surveying (4) | FE 208 |  |  |
|  | GIS and Forest Engineering Applications (3) | FE 257 |  |  |
|  | 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 |  |  |
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| **FOUNDATIONS IN WILDLAND FIRE (17 credits) REQUIRED** | | | **Fulfilled by:** | **Note #** |
|  | Wildland Fire Ecology (3) | FES 440 |  |  |
|  | Ecological Restoration (4) | FES/FW 445 |  |  |
| ***OR*** Rangeland Restoration and Ecology (4) | RNG 421 |
|  | Economics and Policy of Forest Wildland Fire (3) | FOR 431 |  |  |
|  | Wildland Fire Science and Management (4) | FOR 436 |  |  |
|  | Applied Wildfire Risk Science (3) | FOR 438 |  |  |
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| **ECOLOGICAL AND NATURAL RESOURCE ELECTIVES ( Choose 17 - 18 credits)** | | | **Fulfilled by:** | **Note #** |
|  | Ecology (3) | BI 370 |  |  |
|  | Plant Ecology (4) | BOT 341 |  |  |
|  | Flora of the Pacific Northwest (3) | BOT 425 |  |  |
|  | Weed Management (4) | CROP 440 |  |  |
|  | Forest Surveying (4) | FE 208 |  |  |
|  | Watershed Processes (4) | FE 430 |  |  |
|  | Forest Watershed Management (4) | FE 434 |  |  |
|  | Forest Ecology (3) | FES 341 |  |  |
|  | Forest Types of the Northwest (3) | FES 342 |  |  |
|  | Forest Entomology (3) | FES 412 |  |  |
|  | Biodiversity Conservation in Managed Forests (3) | FES/FW 452 |  |  |
|  | Wildland Fire Guard School (2( | FOR 252 |  |  |
|  | Topics in Wildland Fire (3) | FOR 346 |  |  |
|  | Forest Pathology (3) | FOR/BOT 413 |  |  |
|  | Silviculture Principles (4) | FOR 441 |  |  |
|  | Principles of Fish and Wildlife Conservation (3) | FW 251 |  |  |
|  | Applied Community and Ecosystem Ecology (3) | FW 321 |  |  |
|  | Herpetofauna Conservation and Management | FW 448 |  |  |
|  | Avian Conservation and Management | FW 451 |  |  |
|  | Freshwater Ecology and Conservation (5) | FW 456 |  |  |
|  | Mammal Conservation and Management (4) | FW 458 |  |  |
|  | Wetlands and Riparian Ecology (3) | FW 479 |  |  |
|  | Wildlife Ecology (3) | FW 481 |  |  |
|  | Scientific Methods for Analyzing Natural Resources Problems (3) | NR 325 |  |  |
|  | Vegetation Monitoring and Analysis (4) | RNG 441 |  |  |
|  | Rangeland Management and Planning – Principles and Processes (4) | RNG 491^ |  |  |
|  | Ecosystems of Wildland Soils (3) | SOIL 366 |  |  |
|  | ***OR*** Soil Systems and Plant Growth (4) | SOIL 388 |  |  |
|  | ***OR*** Soil Morphology and Classification (4) | SOIL 466 |  |  |
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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. | | | |
| **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 and Ecampus.** | | | | |

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Revised 3.2025 NR Curriculum version 4.0 effective Summer 2025 onward.