

**NATURAL RESOURCES B.S. DEGREE
Specialization Option Checklist:
Forest Ecosystems**

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 in Summer 2025 onward)

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| **FOREST ECOSYSTEMS SPECIALIZATION REQUIREMENTS** |
| **MEASUREMENTS (4 - 5 credits ) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Field Methods in Ecological Restoration (4) | BI 375 |  |  |
|  | Field Methods in Plant Ecology (4) | BOT 440 |  |  |
|  | Forest Mensuration (5) | FOR 321 |  |  |
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| **ECOLOGICAL FOUNDATION (23 credits) REQUIRED** | **Fulfilled by:** | **Note #** |
|  | Forest Ecology (3) | FES 341 |  |  |
|  | Forest Entomology (3) | FES 412 |  |  |
|  | Wildland Fire Ecology (3) | FES 440 |  |  |
|  | Biodiversity Conservation in Managed Forests (3) | FES/FW 452 |  |  |
|  | Forest Pathology (3) | FOR/BOT 413 |  |  |
|  | Wildland Fire Science and Management (4) | FOR 436 |  |  |
|  | Silviculture Principles (4) | FOR 441 |  |  |
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| **ECOLOGY BREADTH (Choose at least 6 - 8 credits)** | **Fulfilled by:** | **Note #** |
|  | Plant Systematics (4) | BOT 321 |  |  |
|  | Plant Ecology (4) | BOT 341 |  |  |
|  | Flora of the Pacific Northwest (3) | BOT 425 |  |  |
|  | Forest Watershed Management (4) | FE 434 |  |  |
|  | Ecological Restoration (4) | FES/FW 445 |  |  |
|  | ~~Agroforestry (3)~~ | ~~FES/NR 477\*~~ |  |  |
|  | Principles of Fish and Wildlife Conservation (3) | FW 251 |  |  |
|  | Ornithology (3) | FW 311 |  |  |
|  | Ichthyology (3) | FW 315 |  |  |
|  | Mammalogy (3) | FW 317 |  |  |
|  | Introduction to Population Dynamics (4) | FW 320 |  |  |
|  | Applied Community and Ecosystems Ecology (3) | FW 321 |  |  |
|  | Avian Conservation and Management (3) | FW 451 |  |  |
|  | Freshwater Ecology and Conservation (5) | FW 456 |  |  |
|  | Mammal Conservation and Management (4) | FW 458 |  |  |
|  | Fish Ecology | FW 473 |  |  |
|  | Wildlife Ecology (4) | FW 481 |  |  |
|  | Scientific Methods for Analyzing Natural Resource Problems (3) | NR 325 |  |  |
|  | Ecology of Grassland Ecosystems (3) | RNG 351 |  |  |
|  | Ecology of Shrubland Ecosystems (3) | RNG 352 |  |  |
|  | Riparian Ecohydrology and Management (3) | RNG 455 |  |  |
|  | Ecosystems of Wildland Soils (3) | SOIL 366 |  |  |
|  ***OR*** Soil Systems and Plant Growth (4) | SOIL 388 |
| ***OR*** Soil Morphology and Classification (4) | SOIL 466 |
|  | Biodiversity: Causes, Consequences and Conservation (3) | Z 349\* |  |  |
|  | Herpetology (3) | Z 473 |  |  |
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| **TECHNICAL ELECTIVES (8 credits) CHOOSE TWO** | **Fulfilled by:** | **Note #** |
|  | Forest Surveying (4) | FE 208 |  |  |
|  | GIS and Forest Engineering Applications | FE 257 |  |  |
|  | Harvesting Operation (4) | FE 370 |  |  |
|  | Remote Sensing and Photogrammetry | FE 444 |  |  |
|  | Arboriculture 94) | FES 447 |  |  |
|  | Foundations of Geospatial Science and GIS (4) | GEOG 201+\* |  |  |
|  | GIScience I: Geographic Information Systems and Theory (4) | GEOG 360 |  |  |
|  | Introduction to Statistical Methods (4) | ST 351 |  |  |
| ***OR*** Statistical Methods (4) | ST 352 |
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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.) Required minimum GPA for the specialization is 2.25. This option is available on the Corvallis Campus.** |

Revised 3.2025 NR 3.0 for Natural Resources students admitted before Summer 2025