

**NATURAL RESOURCES B.S. DEGREE
Specialization Option Checklist:
 Ecological Restoration**

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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| **ECOLOGICAL RESTORATION SPECIALIZATION REQUIREMENTS** |
| **MEASUREMENT AND ANALYSIS (3 - 4 credits ) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Field Methods in Ecological Restoration (4) | BI 375 |  |  |
|  | Field Methods in Plant Ecology (4) | BOT 440 |  |  |
|  | Precision Agriculture | CROP/HORT 414 |  |  |
|  | GIS and Forest Engineering Applications | FE 257 |  |  |
|  | Forest Surveying | FE 208 |  |  |
|  | Foundations of Geospatial Science and GIS | GEOG 201+\* |  |  |
|  | GIScience I: Geographic Information Systems and Theory | GEOG 360 |  |  |
|  | Scientific Methods for Analyzing Natural Resource Problems (3) | NR 325 |  |  |
|  | Vegetation Monitoring and Analysis (4) | RNG 441 |  |  |
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| **RESOURCE ECONOMICS (3-4 credits) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Natural Resources Economics and Policy (3) | AEC 351\* |  |  |
|  | Environmental Economics and Policy (3) | AEC /ECON352\* |  |  |
|  | Introduction to Coastal and Marine Resource Economics (3) | AEC 353\* |  |  |
|  | Forest Resource Economics I (4) | FOR 329 |  |  |
|  | Economics and Policy of Forest Wildland Fire (3) | FOR 431 |  |  |
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| **FOUNDATIONS OF ECOLOGICAL RESTORATION (25 - 27 credits) REQUIRED** | **Fulfilled by:** | **Note #** |
|  | Ecology (3) | BI 370 |  |  |
|  | Plant Systematics (4) | BOT 321 |  |  |
| ***OR*** Plant Ecology (4) | BOT 341 |
|  | General Chemistry (5) | CH 122\* |  |  |
| ***OR*** General Chemistry (4) AND Lab for Chemistry (1) | CH 232\* &CH 262\* |
|  | Ecological Restoration (4) | FES/FW 445 |  |  |
|  | Wetlands & Riparian Ecology (3) | FW 479 |  |  |
| ***OR*** Riparian Ecohydrology & Management (4) | RNG 455 |
|  | Land Use Planning for Sustainable Communities (3) | GEOG 250+\* |  |  |
| ***OR*** Planning Principles and Practices for Resilient Communities (4) | GEOG 451 |
| ***OR*** Environmental Assessment (3) | GEOG 452 |
|  | Ecosystems of Wildland Soils (4) | SOIL 366 |  |  |
| ***OR*** Soils Systems and Plant Growth (3) | SOIL 388 |
| ***OR*** Biology of Soil Ecosystems | SOIL 455 |
| ***OR*** Soil Morphology and Classification (4) | SOIL 466 |
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| **SOCIAL AND ETHICAL CONSIDERATIONS (3 - 4 credits) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Urban Forestry (3) | FES/HORT 350 |  |  |
|  | Economics and Policy of Forest Wildland Fire (3) | FOR 431 |  |  |
|  | Critical Thinking for Natural Resource Challenges (3) | NR 312 |  |  |
|  | Environmental Ethics (3) | PHL 440\* |  |  |
|  | World Views & Environmental Values (3) | PHL/REL 443\* |  |  |
|  | Environmental Sociology (4) | SOC 480\* |  |  |
|  | Society & Natural Resources (4) | SOC 481\* |  |  |
|  | Sustainability, Justice and Engagement (3) | SUS 331+\* |  |  |
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| **ECOLOGICAL AND NATURAL RESOURCE ELECTIVES (3 -5 credits) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Marine Ecology (3) | BI 351 |  |  |
|  | Introduction to Plant Biology (4) | BOT 220+\* |  |  |
|  | Environmental Physiology of Plants (3) | BOT 488 |  |  |
|  | Tropical Ecology and Conservation | ENSC 341 |  |  |
|  | Wildland Fire Ecology (3) | FES 440 |  |  |
| ***OR*** Wildland Fire Science and Management (4) | FOR 436 |
|  | Biodiversity Conservation in Managed Forests (3) | FES/FW 452 |  |  |
|  | Urban Forest Planning, Policy and Management (4) | FES 455 |  |  |
|  | Introduction to Forestry (3) | FOR 111+ |  |  |
|  | Silviculture (4) | FOR 441 |  |  |
|  | Principles of Fish and Wildlife Conservation (3) | FW 251 |  |  |
|  | Introductory Population Dynamics (4) | FW 320 |  |  |
|  | Coastal Ecology and Management (hybrid) (5) | FW 426 |  |  |
|  | Herpetofauna Conservation and Management (3) | FW 448 |  |  |
|  | Avian Conservation and Management (3) | FW 451 |  |  |
|  | Fishery Biology (4) | FW 454^ |  |  |
|  | Freshwater Ecology and Conservation (4) | FW 456 |  |  |
|  | Mammal Conservation and Management (4) | FW 458 |  |  |
|  | Fish Ecology (4) | FW 473 |  |  |
|  | Wildlife Ecology (4) | FW 481 |  |  |
|  | Principles of Rangeland Ecology and Management (3) | RNG 341 |  |  |
|  | Rangeland Restoration and Management (4) | RNG 421 |  |  |
|  | Vegetation Monitoring and Analysis (4) | RNG 441 |  |  |
|  | Soil Landscape Analysis (4) | SOIL 468 |  |  |
|  | Environmental Physiology (3) | Z 423 |  |  |
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|  | Note: Up to 6 credits of appropriate internships, projects or study abroad may be used to fulfill credit requirements in the “Social and Ethical Considerations” or “Ecological and NR Electives” 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 and Ecampus.** |

Revised 3.2025 NR Curriculum version 4.0 effective Summer 2025 onward.