

**NATURAL RESOURCES B.S. DEGREE
Specialization Option Checklist:
 Natural Resource Education**

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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| **NATURAL RESOURCE EDUCATION SPECIALIZATION REQUIREMENTS** |
| **MEASUREMENT AND ANALYSIS (4 credits ) CHOOSE ONE** | **Fulfilled by:** | **Note #** |
|  | Research Methods for Social Science (4) | FES 422 |  |  |
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| **FOUNDATIONS OF NATURAL RESOURCE EDUCATION (10 Credits) REQUIRED** | **Fulfilled by:** | **Note #** |
|  | Introduction to Forestry (3) | FOR 111+ |  |  |
|  ***OR*** Forest Types of the Pacific Northwest (3) | FES 342 |
|  | Principles of Fish & Wildlife Conservation (3) | FW 251 |  |  |
|  | Environmental Interpretation (4) | TRAL 493 |  |  |
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| **EDUCATION AND PROGRAM DEVELOPMENT (13 Credits) REQUIRED** | **Fulfilled by:** | **Note #** |
|  | Purpose, Structure and Function of Education in a Democracy (3) | ED 216+\* |  |  |
| ***OR*** Social Justice, Civil Rights and Multiculturalism in Education (3) | ED 219+\* |
|  | Learning Across the Lifespan (3) | ED 253+ |  |  |
|  | Forest As Classroom (4) | FES 430 |  |  |
|  | Inquiry in Science and Science Education (3) | SED 413 |  |  |
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| **ELECTIVES (minimum 10 credits)** |
| **CHOOSE YOUR PATH:** Students select a minimum of 10 credits from either the Education Electives or Natural Resource Electives (or both). Students may choose to focus on teaching in informal education settings or formal classroom instruction in middle or high schools.Students also pursuing the Secondary Education major or the Master of Science in Education should choose courses that can double count for the courses listed in [Content Mastery](https://education.oregonstate.edu/student-content-mastery-sheets) for Biology or Integrated Science. An Oregon teacher license requires additional science courses not listed in the Natural Resource major or the Natural Resource Education option. To satisfy the Biology and Integrated Science Endorsement requirements, Natural Resource students need to take the 200-level biology, two additional courses in chemistry to make it a full year and at least two physics classes. Students must work closely with their advisor(s) to plan an appropriate plan of study to meet their goals. |
| ***Education Electives*** |
|  | Introduction to Agricultural Education (2) | AED 235 |  |  |
|  | Planning and Delivering Non-Formal Agricultural Education (3) | AED 325 |  |  |
|  | Introduction to Adult Learning (3) | AHE 440 |  |  |
|  | Instructional Methods for Adult Learning (3) | AHE 445 |  |  |
|  | Purpose, Structure & Function of Education in a Democracy (3) | ED 216\* |  |  |
| ***OR*** Social Justice, Civil Rights and Multiculturalism in Education (3) | ED 219\* |
|  | Field Practicum (variable credit requires – requires departmental approval) | ED 309 |  |  |
|  | Trauma-Informed Care in Education II (3) | ED 325 |  |  |
|  | Applied Educational Psychology in K12 Schools (3) | ED 411 |  |  |
|  | Learning Styles and Needs in Adolescence (2) | ED 412 |  |  |
|  | Classroom Management (3) | ED 420 |  |  |
|  | Methods for Teaching Health, Wellness and Fine Arts(2) | ED 458 |  |  |
|  | Foundations of ESOL Education (3) | ED 472 |  |  |
|  | Projects (Free choice learning for zoos, aquariums, parks, etc.) (variable credit)  | SED 406 |  |  |
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| ***Natural Resource Electives***  |  |  |  |
|  | Introduction to Marine Biology (3) | BI 150 |  |  |
|  | Human Impacts on Ecosystems | BOT 301\* |  |  |
|  | Biodiversity Conservation in Managed Forests (3) | FES/FW 452 |  |  |
|  | Biology and Conservation of Marine Mammals (3) | FW 302 |  |  |
|  | Food from the Sea (3) | FW 324+\* |  |  |
|  | Coastal Ecology and Resource Management (HMSC) (5) | FW 426 |  |  |
|  | Herpetofauna Conservation and Management (3) | FW 448 |  |  |
|  | Avian Conservation and Management (3) | FW 451 |  |  |
|  | Mammal Conservation and Management (4) | FW 458 |  |  |
|  | Marine Conservation Biology (3) | FW 464 |  |  |
|  | Earth Systems Science (4) | GEO 202+\* |  |  |
|  | Evolution of Planet Earth (4) | GEO 203+\* |  |  |
|  | National Park Geology and Preservation (3) | GEO 307\* |  |  |
|  | Multicultural Leadership (3) | LEAD 252\* |  |  |
|  | Team and Organizational Leadership (3) | LEAD 342\* |  |  |
|  | Foundation of Adventure Leadership | LEAD 430 |  |  |
|  | Backcountry Leadership (3) | LEAD 432 |  |  |
|  | Nature in Storytelling over the Centuries (3) | NR 380 |  |  |
|  | Sustainable Living, Practices and Policies (4) | PS 374\* |  |  |
|  | Principles of Rangeland Ecology and Management (3) | RNG 341 |  |  |
|  | Wildland Restoration and Ecology (4) | RNG 421 |  |  |
|  | Riparian Ecohydrology and Management (4) | RNG 455 |  |  |
|  | Outside: Sharing your Outdoor Origin Story | TRAL 227+\* |  |  |
|  | Recreation Resource Management (4) | TRAL 251 |  |  |
|  | Outdoor Recreation Management on Public Lands (3) | TRAL 351 |  |  |
|  | Parks and Protected Areas Management (3) | TRAL 357\* |  |  |
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| Note: Up to 6 credits of appropriate internships, projects or study abroad may be used to fulfill credit requirements 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 required 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.