Natural Resources Major with Wildland Fire Ecology Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. This option will help students understand the nature of fire in wildland ecosystems. It includes an understanding of the dynamics of fire behavior and post-fire response.

Your Bachelor’s Degree (BS) in Natural Resources

- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 124 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 are accepted.
- More info at forestry.oregonstate.edu/undergraduate-programs/natural-resources/wildland-fire-ecology

Courses Required for Natural Resources Major

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<td>Wildlife Ecology</td>
<td>FW 340</td>
<td>FW 340</td>
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<tr>
<td>Animal Behavior</td>
<td>FW 340</td>
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<tr>
<td><strong>Ethics &amp; Philosophy</strong></td>
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<tr>
<td>Ecosystems Science of the PNW Indians</td>
<td>AG 301</td>
<td>ANTH 352</td>
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<tr>
<td>Anthropology, Health, and the Environment</td>
<td>ANTH 477</td>
<td>ANTH 481</td>
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<tr>
<td>Ecological Anthropology</td>
<td>ANTH 482</td>
<td>FW 340</td>
<td>Available online at OSU</td>
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<tr>
<td>Natural Resources and Community Values</td>
<td>FW 340</td>
<td>FW 340</td>
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<tr>
<td>Anthropology of International Development</td>
<td>FW 340</td>
<td>FW 340</td>
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<td>Multicultural Perspectives in NR</td>
<td>FW 340</td>
<td>FW 340</td>
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<tr>
<td>Environmental Justice</td>
<td>GEO 309</td>
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<tr>
<td>Environmental History of the United States</td>
<td>HST 481</td>
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<td>Critical Thinking for NR Challenges</td>
<td>NR 412</td>
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<td>PHL 440</td>
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<td><strong>Natural Resource Policy</strong></td>
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<tr>
<td>Environmental Law</td>
<td>AEC 432</td>
<td>AEC 432</td>
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<tr>
<td>Rural Development Economics &amp; Policy</td>
<td>AEC 454</td>
<td>AEC 454</td>
<td>Available online at OSU</td>
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<tr>
<td>Public Lands Policy &amp; Management</td>
<td>FES 486</td>
<td>FOR 460</td>
<td>Available online at OSU</td>
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<tr>
<td>Forest Policy</td>
<td>FOR 462</td>
<td>FOR 462</td>
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<tr>
<td>Natural Resources Policy and Law</td>
<td>FW 415</td>
<td>FW 415</td>
<td>Available online at OSU</td>
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<tr>
<td>Fish &amp; Wildlife Law and Policy</td>
<td>FW 422</td>
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<tr>
<td>Introduction to Ocean Law</td>
<td>PS 475</td>
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<tr>
<td>U.S. Energy Policy</td>
<td>PS 476</td>
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<tr>
<td>International Environmental Politics &amp; Policy</td>
<td>TRAL 352</td>
<td>TRAL 352</td>
<td>Available online at OSU</td>
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<tr>
<td><strong>Political Issues</strong></td>
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<tr>
<td>Plagues, Pests, and Politics</td>
<td>ENT/HORT 300</td>
<td>FOR 462</td>
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<tr>
<td>Natural Resource Policy and Law</td>
<td>FW 350</td>
<td>FW 350</td>
<td>Available online at OSU</td>
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<tr>
<td>Endangered Spec, Society and Sustainability</td>
<td>NR 351</td>
<td>NR 351</td>
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<td>When Science Escapes the Lab</td>
<td>PS 455</td>
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<tr>
<td>The Politics of Climate Change</td>
<td>PS 475</td>
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<td>PS 476</td>
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<tr>
<td>International Environmental Politics &amp; Policy</td>
<td>TRAL 352</td>
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<tr>
<td>Wilderness Management</td>
<td>AEC 351</td>
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<td>Resource Economics</td>
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<td>AEC 454</td>
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<td>AEC 454</td>
<td>FOR 329</td>
<td>Available online at OSU</td>
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NR Core Requirements (continued)

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<th>COCC Course</th>
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<tr>
<td>Complete one course per category</td>
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**Social Issues**

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<tr>
<td>Management for Multiple Resource Values</td>
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<tr>
<td>Issues in Natural Resource Conservation</td>
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<td>Global Crises in Resource Ecology</td>
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<tr>
<td>Sustainability for the Common Good</td>
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<tr>
<td>Climate Change, Water and Society</td>
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<td>Resilience-Based Natural Resource Mgmt</td>
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<tr>
<td>Global Resource Development</td>
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<td>When Science Escapes the Lab</td>
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<td>Social Dimensions of Sustainability</td>
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<td>Society and Natural Resources</td>
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<td>Social Dimensions of Sustainability</td>
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<td>Recreation Resource Management</td>
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<td>Outdoor Recreation on Public Lands</td>
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<tr>
<td>Wilderness Management</td>
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<tr>
<td>Nature, Eco, and Adventure Tourism</td>
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<tr>
<td>Communities, Natural Areas, and Tourism</td>
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<td>Women and Natural Resources</td>
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**Spatial Analysis**

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<th>COCC Course</th>
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<tr>
<td>Precision Agriculture</td>
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<tr>
<td>GIS and Forest Engineering Applications</td>
<td>GEOG 265</td>
<td>FE 257</td>
<td>Available online at OSU</td>
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<tr>
<td>Survey of Geographic Information Systems</td>
<td>FW 303</td>
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<td>Available online at OSU</td>
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<tr>
<td>Foundations of Geospatial Science &amp; GIS</td>
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<td>GEOG 265</td>
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<tr>
<td>Geoscience I: GIS and Theory</td>
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**Courses Required for Wildland Fire Ecology Option**

<table>
<thead>
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**Measurements**

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<tr>
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<th>COCC Course</th>
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<tr>
<td>Field Methods in Plant Ecology</td>
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<tr>
<td>Field Sampling of Fish &amp; Wildlife</td>
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<tr>
<td>Geoscience I: GIS &amp; Theory</td>
<td>GEOG 266</td>
<td>GEOG 360</td>
<td>Available online at OSU</td>
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<td>Wildland Fire Ecology</td>
<td>FES 440</td>
<td></td>
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<td>Ecological Restoration</td>
<td>FES/FW 445</td>
<td>RNG 421</td>
<td>Available online at OSU</td>
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<td>Wildland Restoration and Ecology</td>
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<tr>
<td>Economics and Policy of Forest Wildland Fire</td>
<td>FOR 431</td>
<td></td>
<td>Available online at OSU</td>
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<tr>
<td>Wildland Fire Science and Management</td>
<td>FOR 436</td>
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**Ecological & NR Elect: Choose 22-23 cr:**

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<td>Plant Ecology</td>
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<td>Forest Pathology</td>
<td>FOR 202</td>
<td>BOT/FOR 413</td>
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<td>Agrostology</td>
<td>BOT 414</td>
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<td>Flora of the Pacific Northwest</td>
<td>BOT 425</td>
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<td>Weed Management</td>
<td>CROP 440</td>
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<tr>
<td>Forest Surveying</td>
<td>FE 208</td>
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<td>Available online at OSU</td>
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<tr>
<td>Forest Watershed Management</td>
<td>FE 434</td>
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<tr>
<td>Forest Ecology</td>
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<td>Forest Types of the Northwest</td>
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<tr>
<td>Forest Entomology</td>
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<tr>
<td>Biodiversity Conservation in Managed Forests</td>
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<tr>
<td>Topics in Wildland Fire</td>
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<tr>
<td>Economics and Policy of Forest Wildland Fire</td>
<td>FOR 341</td>
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<td>Silviculture Principles</td>
<td>FOR 441</td>
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<tr>
<td>Applied Community and Ecosystem Ecology</td>
<td>FW 321</td>
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<td>Available online at OSU</td>
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<td>Freshwater Ecology and Conservation</td>
<td>FW 456</td>
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<tr>
<td>Mammal Conservation and Management</td>
<td>FW 458</td>
<td></td>
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<tr>
<td>Wetlands and Riparian Ecology</td>
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<tr>
<td>Wildlife Ecology</td>
<td>FW 481</td>
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<td>Available online at OSU</td>
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<td>Scientific Methods for Analyzing NR Problems</td>
<td>NR 325</td>
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<tr>
<td>Ecosystems of Wildland Soils</td>
<td>SOIL 366</td>
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<td>Available online at OSU</td>
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<tr>
<td>Soil Systems and Plant Growth</td>
<td>SOIL 388</td>
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<tr>
<td>Soil Morphology and Classification</td>
<td>SOIL 466</td>
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</table>
General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of COCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college](admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college)

<table>
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<tr>
<th>SKILLS COURSES</th>
<th>PERSPECTIVE COURSES</th>
<th>DPD COURSE</th>
<th>SYNTHESIS COURSES</th>
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<tr>
<td>Math</td>
<td>Biological Science</td>
<td>Difference, Power, &amp; Discrimination</td>
<td>Contemporary Global Issues</td>
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<td>Writing I</td>
<td>Physical Science</td>
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<td>Science, Technology, &amp; Society</td>
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<td>Writing II</td>
<td>Additional Biological or Physical Science</td>
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<td>Speech (Writing III)</td>
<td>Cultural Diversity</td>
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<td>Upper division course, take through OSU</td>
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<td>Literature and the Arts</td>
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<td></td>
<td>Social Processes and Institutions</td>
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<td></td>
<td>Western Culture</td>
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<td>Completed as part of major: MTH 112 or higher WR 121. Required to transfer. Can be completed as part of major: see advisor</td>
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<td>Completed as part of major: EC 201</td>
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<td></td>
<td>Completed as part of major: Biology II Choose one course from Bacc Core link above</td>
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<td></td>
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<tr>
<td></td>
<td>Completed as part of major: EC 201 Choose one course from Bacc Core link above</td>
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<td></td>
<td>Choose one course from Bacc Core link above</td>
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</table>

Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See [visitosu.oregonstate.edu/visit-campus](visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<table>
<thead>
<tr>
<th>Central Oregon Community College</th>
<th>OSU College of Forestry Prospective Student Advisor</th>
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<tbody>
<tr>
<td>Rebecca Franklin, Forestry Faculty 541-330-4378 <a href="mailto:rfranklin@cocc.edu">rfranklin@cocc.edu</a></td>
<td>Autumn Granger 541-737-9135 <a href="mailto:Autumn.granger@oregonstate.edu">Autumn.granger@oregonstate.edu</a></td>
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