## 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

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<th>KCC Course</th>
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## Courses Required for Natural Resources Major

- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 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
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| **Ethics & Philosophy**             |                |                |           |
| Ecosystems Science of the PNW Indians | AG 301 | Available online at OSU |
| Anthropology, Health, and the Environment | ANTH 352 | Available online at OSU |
| Ecological Anthropology              | ANTH 477       | Available online at OSU |
| Natural Resources and Community Values | ANTH 481 | Available online at OSU |
| Anthropology of International Development | ANTH 482 | Available online at OSU |
| Multicultural Perspectives in NR     | FW 340         | Available online at OSU |
| Environmental Justice                | GEO 309        | Available online at OSU |
| Environmental History of the United States | HST 481 | Available online at OSU |
| Critical Thinking for NR Challenges  | NR 312         | Available online at OSU |
| Nature in Storytelling Over the Centuries | NR 380 | Available online at OSU |
| Environmental Ethics                 | PHL 440        | Available online at OSU |
| World View and Environmental Values  | PHL/REL 443    | Available online at OSU |

| **Natural Resource Policy**          |                |                |           |
| Environmental Law                    | AEC 432        | Available online at OSU |
| Rural Development Economics & Policy | AEC 454        | Available online at OSU |
| Public Lands Policy & Management     | FES 486        | Available online at OSU |
| Forest Policy                        | FOR 460        | Available online at OSU |
| Natural Resources Policy and Law     | FOR 462        | Available online at OSU |
| Fish & Wildlife Law and Policy       | FW 415         | Available online at OSU |
| Introduction to Ocean Law            | FW 422         | Available online at OSU |
| U.S. Energy Policy                   | PS 473         | Available online at OSU |
| Environmental Politics and Policy    | PS 475         | Available online at OSU |
| International Environmental Politics & Policy | PS 477 | Available online at OSU |

| **Political Issues**                 |                |                |           |
| Plagues, Pests, and Politics         | ENT/HORT 300   | Available online at OSU |
| Natural Resource Policy and Law      | FOR 462        | Available online at OSU |
| Endangered Spec, Society and Sustainability | FW 350 | Available online at OSU |
| When Science Escapes the Lab         | NR 351         | Available online at OSU |
| The Politics of Climate Change       | PS 455         | Available online at OSU |
| Environmental Politics and Policy    | PS 475         | Available online at OSU |
| Science and Politics                 | PS 476         | Available online at OSU |
| International Environmental Politics & Policy | PS 477 | Available online at OSU |
| Wilderness Management                | TRAL 352       | Available online at OSU |

| **Economics**                        |                |                |           |
| Intro to Environmental Economics & Policy | ARE 250 | Available online at OSU |
| Intro to Microeconomics               | ECO 201        | Available online at OSU |
| Intro to Environmental Economics & Policy | AEC 250 | Available online at OSU |
| Intro to Microeconomics               | ECON 201       | Available online at OSU |
### NR Core Requirements (continued)

**Complete one course per category**

<table>
<thead>
<tr>
<th>Social Issues</th>
<th>KCC Course</th>
<th>OSU Course</th>
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<td>Management for Multiple Resource Values</td>
<td>FES 355</td>
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<tr>
<td>Issues in Natural Resource Conservation</td>
<td>FES 365</td>
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<tr>
<td>Global Crises in Resource Ecology</td>
<td>FW 325</td>
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<tr>
<td>Sustainability for the Common Good</td>
<td>GEOG 300</td>
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<tr>
<td>Climate Change, Water and Society</td>
<td>GEOG 240</td>
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<td>Resilience-Based Natural Resource Mgmt</td>
<td>GEOG 430</td>
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<td>Global Resource Development</td>
<td>GEOG 431</td>
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<td>When Science Escapes the Lab</td>
<td>NR 351</td>
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<tr>
<td>Social Dimensions of Sustainability</td>
<td>SOC 381</td>
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<td>Rural Sociology</td>
<td>SOC 475</td>
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<td>Environmental Sociology</td>
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<td>Society and Natural Resources</td>
<td>SOC 481</td>
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<td>Social Dimensions of Sustainability</td>
<td>SUS 420</td>
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<td>Recreation Resource Management</td>
<td>TRAL 251</td>
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<tr>
<td>Outdoor Recreation on Public Lands</td>
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<td>Wilderness Management</td>
<td>TRAL 352</td>
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<tr>
<td>Nature, Eco, and Adventure Tourism</td>
<td>TRAL 353</td>
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<tr>
<td>Communities, Natural Areas, and Tourism</td>
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<tr>
<td>Women and Natural Resources</td>
<td>WGSS 440</td>
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<td>Precision Agriculture</td>
<td>CROP/HORT 414</td>
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<tr>
<td>GIS and Forest Engineering Applications</td>
<td>FE 257</td>
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<tr>
<td>Survey of Geographic Information Systems</td>
<td>FW 303</td>
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<tr>
<td>Foundations of Geospatial Science &amp; GIS</td>
<td>GEOG 201</td>
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<tr>
<td>Geoscience I: GIS &amp; Theory</td>
<td>GEOG 360</td>
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### Courses Required for Wildland Fire Ecology Option

**Complete one course per category unless otherwise noted**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>KCC Course</th>
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<tr>
<td>Measurements</td>
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<tr>
<td>Field Methods in Plant Ecology</td>
<td>BOT 440</td>
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<td>Field Sampling of Fish &amp; Wildlife</td>
<td>FW 255</td>
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<tr>
<td>Geoscience I: GIS &amp; Theory</td>
<td>GEOG 360</td>
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<td>Wildland Fire Ecology</td>
<td>FES 440</td>
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<tr>
<td>Ecological Restoration</td>
<td>FES/FW 445</td>
<td>Available online at OSU</td>
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<tr>
<td>Wildland Restoration and Ecology</td>
<td>RNG 421</td>
<td>Available online at OSU</td>
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<tr>
<td>Economics and Policy of Forest Wildland Fire</td>
<td>FOR 431</td>
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<tr>
<td>Wildland Fire Science and Management</td>
<td>FOR 436</td>
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<tr>
<th>Ecological &amp; NR Elect: Choose 22-23 cr:</th>
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<tr>
<td>Plant Ecology</td>
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<td>Forest Pathology</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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<td>Forest Surveying</td>
<td>FE 208</td>
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<td>Forest Watershed Management</td>
<td>FE 434</td>
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<td>Forest Ecology</td>
<td>FES 341</td>
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<td>Forest Types of the Northwest</td>
<td>FES 342</td>
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<tr>
<td>Forest Entomology</td>
<td>FES 412</td>
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<tr>
<td>Biodiversity Conservation in Managed Forests</td>
<td>FES/FW 452</td>
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<tr>
<td>Topics in Wildland Fire</td>
<td>FOR 346</td>
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<tr>
<td>Economics and Policy of Forest Wildland Fire</td>
<td>FOR 431</td>
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<tr>
<td>Silviculture Principles</td>
<td>FOR 441</td>
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<td>Applied Community and Ecosystem Ecology</td>
<td>FW 321</td>
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<td>Freshwater Ecology and Conservation</td>
<td>FW 456</td>
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<td>Mammal Conservation and Management</td>
<td>FW 458</td>
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<td>Wetlands and Riparian Ecology</td>
<td>FW 479</td>
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<tr>
<td>Wildlife Ecology</td>
<td>FW 481</td>
<td>Available online at OSU</td>
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<tr>
<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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<tr>
<td>Soil Systems and Plant Growth</td>
<td>SOIL 388</td>
<td>Available online at OSU</td>
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<tr>
<td>Soil Morphology and Classification</td>
<td>SOIL 466</td>
<td>Available online at OSU</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 KCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-klamath-community-college](http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-klamath-community-college)

| SKILLS COURSES | Math  
| Writing I  
| Writing II  
| Speech (Writing III)  
| Fitness | Completed as part of major: MTH 112 or higher  
| WR 121. Required to transfer.  
| Can be completed as part of major: see advisor  
| Choose one course from Bacc Core link above  
| HPE 295 @ KCC |

| PERSPECTIVE COURSES | Biological Science  
| Physical Science  
| Additional Biological or Physical Science  
| Cultural Diversity  
| Literature and the Arts  
| Social Processes and Institutions  
| Western Culture | Completed as part of major: Biology I  
| Completed as part of major: Chemistry  
| Completed as part of major: Biology II  
| Choose one course from Bacc Core link above  
| Choose one course from Bacc Core link above  
| Completed as part of major: ECO 201 or ARE 250  
| Choose one course from Bacc Core link above |

| DPD COURSE | Difference, Power, & Discrimination | Can be completed as part of major: see advisor |

| SYNTHESIS COURSES | Contemporary Global Issues  
| Science, Technology, & Society | Upper division course, take through OSU  
| Upper division course, take through OSU |

### 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](http://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<table>
<thead>
<tr>
<th>Institution</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| Klamath Community College | Dodi Wilson, Science Dept Lead  
541-880-2332  
wilsond@klamathcc.edu |
| OSU College of Forestry Prospective Student Advisor | Autumn Granger  
541-737-9135  
Autumn.granger@oregonstate.edu |