## Natural Resources – Individualized Specialty Option

http://www.forestry.oregonstate.edu/academic-programs/undergraduates/natural-resources

### Degree Requirements:
- BS in Natural Resources – Individualized Specialty option requires 180 credits. At least 60 credits must be upper-division (300-400 level).
- Maximum of 124 community college credits applied to the degree.
- Available on the Corvallis and Distance campuses

### Natural Resources Major Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>OSU Course</th>
<th>Central Oregon CC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consensus &amp; Natural Resources</td>
<td>FES 485. *Consensus &amp; Natural Resources Online at OSU</td>
<td></td>
</tr>
<tr>
<td>Managing Natural Resources</td>
<td>NR 201. Managing Natural Resources for the Future</td>
<td>FOR 111</td>
</tr>
<tr>
<td>Natural Resources Decision-Making</td>
<td>NR 455. Natural Resource Decision-Making Online at OSU</td>
<td></td>
</tr>
<tr>
<td>Advanced Communications</td>
<td>COMM 321. Introduction to Communication Theory</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>COMM 322. Small-Group Problem Solving</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>COMM 328. Nonverbal Communication</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>COMM 385. Communication and Culture in Cyberspace</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>COMM 440. Theories of Conflict and Conflict Management</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>COMM 442. Bargaining and Negotiation Processes</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FES 430. Forest as Classroom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FW 489. Effective Comm. for Fisheries &amp; Wildlife Science</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>NR 312. Critical Thinking for Natural Resource Challenges</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRAL 493. Environmental Interpretation</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>WR 362. Science Writing</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>WR 462. *Environmental Writing</td>
<td></td>
</tr>
<tr>
<td>Biology I</td>
<td>BI 101. *General Biology</td>
<td>BI 101 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>BI 204. *Introductory Biology I</td>
<td>BI 211 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>BI 211. *Principles of Biology I</td>
<td></td>
</tr>
<tr>
<td>Biology II</td>
<td>BI 102. *General Biology</td>
<td>BI 102 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>BI 205. *Introductory Biology II</td>
<td>BI 212 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>BI 212. *Principles of Biology II</td>
<td></td>
</tr>
<tr>
<td>Biology III</td>
<td>BI 103. *General Biology</td>
<td>BI 103 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>BI 205. *Introductory Biology III</td>
<td>BI 213 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>BI 213. *Principles of Biology III</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CH 121. General Chemistry</td>
<td>CH 104 Online at OSU</td>
</tr>
<tr>
<td></td>
<td>CH 231 &amp; 261. *General Chemistry with Lab</td>
<td>CH 221 Online at OSU</td>
</tr>
<tr>
<td>Climate Science</td>
<td>ATS 201. *Climate Science</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 345. Global Change Biology</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEOG 323. *Climatology</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>SUS 103. *Introduction to Climate Change</td>
<td>Online at OSU</td>
</tr>
<tr>
<td>Forestry</td>
<td>FE/FOR 456. *International Forestry</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES 240. *Forest Biology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES 341. Forest Ecology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES 342. Forest Types of the Northwest</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES/HORT 350. Urban Forestry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES 440. Wildland Fire Ecology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES/FW 445. Ecological Restoration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES/FW 452. Biodiversity Conservation in Managed Forests</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FES/NR 477. *Agroforestry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOR 346. Topics in Wildland Fire</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOR 441. Silviculture Principles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOR 240A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For 240A</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Land and Water</th>
<th>FE 430. Watershed Processes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FE 434. Forest Watershed Management</td>
</tr>
<tr>
<td></td>
<td>FW 326 Integrated Watershed Management</td>
</tr>
<tr>
<td></td>
<td>FW 456. Limnology</td>
</tr>
<tr>
<td></td>
<td>FW 479. Wetlands and Riparian Ecology</td>
</tr>
<tr>
<td></td>
<td>GEO 307. *National Park Geology and Preservation</td>
</tr>
<tr>
<td></td>
<td>GEO 308. *Global Change and Earth Sciences</td>
</tr>
<tr>
<td></td>
<td>GEOG 340. *Introduction to Water Science and Policy</td>
</tr>
<tr>
<td></td>
<td>GEOG 440. Water Resources Mgmt in the United States</td>
</tr>
<tr>
<td></td>
<td>GEOG 441. International Water Resources Management</td>
</tr>
<tr>
<td></td>
<td>RNG 355. Desert Watershed Management</td>
</tr>
<tr>
<td></td>
<td>RNG 455. Riparian Ecohydrology and Management</td>
</tr>
<tr>
<td></td>
<td>SOIL 366. Ecosystems of Wildland Soils</td>
</tr>
<tr>
<td></td>
<td>SOIL 388. Soil Systems and Plant Growth</td>
</tr>
<tr>
<td></td>
<td>SOIL 395. *World Soil Resources</td>
</tr>
<tr>
<td></td>
<td>SOIL 466. Soil Morphology and Classification</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range</th>
<th>FES 440. Wildland Fire Ecology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FES/FW 445. Ecological Restoration</td>
</tr>
<tr>
<td></td>
<td>FOR 346. Topics in Wildland Fire</td>
</tr>
<tr>
<td></td>
<td>RNG 341. Rangeland Ecology and Management</td>
</tr>
<tr>
<td></td>
<td>RNG 351. Range Ecology I-Grasslands</td>
</tr>
<tr>
<td></td>
<td>RNG 352. Range Ecology II-Shrublands</td>
</tr>
<tr>
<td></td>
<td>RNG 421. Wildland Restoration and Ecology</td>
</tr>
<tr>
<td></td>
<td>RNG 441. Rangeland Analysis</td>
</tr>
<tr>
<td></td>
<td>RNG 442. Rangeland-Animal Relations</td>
</tr>
<tr>
<td></td>
<td>RNG 490. Rangeland Management Planning</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vegetation ID</th>
<th>BOT 321. Plant Systematics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BOT 414. Agrostology</td>
</tr>
<tr>
<td></td>
<td>BOT 425. Flora of the Pacific Northwest</td>
</tr>
<tr>
<td></td>
<td>FES 241. Dendrology</td>
</tr>
<tr>
<td></td>
<td>HORT 226. Landscape Plant I: Decid. Hardwoods &amp; Conifers</td>
</tr>
<tr>
<td></td>
<td>HORT 228. Landscape Plant II: Spring Flow. Trees &amp; Shrub</td>
</tr>
<tr>
<td></td>
<td>RNG 353. Wildland Plant Identification</td>
</tr>
<tr>
<td></td>
<td>FOR 241A &amp; 241B</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wildlife Management</th>
<th>FW 320. Introductory Population Dynamics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FW 321. Applied Community &amp; Ecosystems Ecology</td>
</tr>
<tr>
<td></td>
<td>FW 435. *Wildlife in Agricultural Ecosystems</td>
</tr>
<tr>
<td></td>
<td>FW 451. Avian Conservation and Management</td>
</tr>
<tr>
<td></td>
<td>FES/FW 452. Biodiversity Conservation in Managed Forests</td>
</tr>
<tr>
<td></td>
<td>FW 458. Mammal Conservation and Management</td>
</tr>
<tr>
<td></td>
<td>FW 481. Wildlife Ecology</td>
</tr>
<tr>
<td></td>
<td>Z 350. Animal Behavior</td>
</tr>
<tr>
<td></td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

Updated 10/31/18 NK
<table>
<thead>
<tr>
<th>Ethics and Philosophy</th>
<th>AG 301. *Ecosystem Science of Pacific NW Indians</th>
<th>Online at OSU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ANTH 477. Ecological Anthropology</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>ANTH 481. *Natural Resources and Community Values</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>ANTH 482. *Anthropology of International Development</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 340. *Multicultural Perspectives in Natural Resources</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEO 309. *Environmental Justice</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>HST 481. *Environmental History of the United States</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>NR 312. Critical Thinking for Natural Resource Challenges</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PHL 440. *Environmental Ethics</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PHL/REL 443. *World Views and Environmental Values</td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural Resource Policy</th>
<th>AEC 432. Environmental Law</th>
<th>Online at OSU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AEC 454. Rural Development Economics and Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FE 460. *Forest Operations Regulations and Policy Issues</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FOR 460. *Forest Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FOR 462. Natural Resource Policy and Law</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 415. Fisheries and Wildlife Law and Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 422. Intro to Ocean Law</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 473. US Energy Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 475. Environmental Politics and Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 477. International Environmental Politics and Policy</td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Political Issues</th>
<th>ENT 300/HORT 330. *Plagues, Pests, and Politics</th>
<th>Online at OSU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FES 454. Managing at the Wildland-Urban Interface</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FOR 462. Natural Resource Policy and Law</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 350. *Endangered Species, Society and Sustainability</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>NR 351. *Science and Resource Management</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 455. *The Politics of Climate Change</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 475. Environmental Politics and Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 476. *Science and Politics</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>PS 477. International Environmental Politics and Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>TRAL 352. Wilderness Management</td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AEC 454. Rural Development Economics and Policy</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FOR 330. Forest Resource Economics I</td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Issues</th>
<th>FES 355. Management for Multiple Resource Values</th>
<th>Online at OSU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FES 365. *Issues in NR Conservation</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 325. *Global Crises in Resource Ecology</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEOG 300. *Sustainability for the Common Good</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEOG 240. *Climate Change, Water and Society</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEOG 430. Resilience-based Natural Resource Management</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>NR 351. *When Science Escapes the Lab</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>SOC 381. Social Dimensions of Sustainability</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>SOC 475. Rural Sociology</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>SOC 480. *Environmental Sociology</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>SOC 481. *Society and Natural Resources</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>SUS 420. Social Dimensions of Sustainability</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>TRAL 251. Recreation Resource Management</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>TRAL 351. Outdoor Recreation Mgmt on Public Lands</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>TRAL 352. Wilderness Management</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>TRAL 353. Nature, Eco, and Adventure Tourism</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>TRAL 354. Communities, Natural Areas, and Sus. Tourism</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>WGSS 440. *Women and Natural Resources</td>
<td>Online at OSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spatial Analysis</th>
<th>CROP/HORT 414. Precision Agriculture</th>
<th>Online at OSU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FE 257. GIS and Forest Engineering Applications</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>FW 303. Survey of GIS in Natural Resources</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEOG 201. *Foundations of Geospatial Science and GIS</td>
<td>Online at OSU</td>
</tr>
<tr>
<td></td>
<td>GEOG 360. GIScience I: GIS and Theory</td>
<td>Online at OSU</td>
</tr>
<tr>
<td>Individualized Specialty Option Requirements</td>
<td>OSU Course</td>
<td>COCC Course</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>(Requires at least 40 credits, of which a minimum of 20 upper-division credits is required)</td>
<td>Measurements Course</td>
<td></td>
</tr>
<tr>
<td>Other Courses selected by the student in consultation with an NR Advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Central Oregon Community College courses that fulfill OSU’s Baccalaureate Core requirements:
http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college

<table>
<thead>
<tr>
<th>OSU Baccalaureate Core (Complete one course from each category)</th>
<th>OSU Course</th>
<th>COCC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing I</td>
<td>WR 121</td>
<td>WR 121</td>
</tr>
<tr>
<td>Writing II</td>
<td>WR 326</td>
<td>WR 327 or Choose one course from list above</td>
</tr>
<tr>
<td></td>
<td>WR 327</td>
<td>Possibly fulfilled by major: WR 227</td>
</tr>
<tr>
<td>Speech</td>
<td>Choose one course from list above</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>MTH 105 or higher</td>
<td>Fulfilled by Major Requirements: MTH 112, 241, 245, or 251</td>
</tr>
<tr>
<td>Fitness</td>
<td>HHS 231 Lifetime Fitness for Health and HHS 241 Lifetime Fitness</td>
<td>HPE 295</td>
</tr>
<tr>
<td>Physical Science with Lab</td>
<td>Earth or Soil Science course</td>
<td>Fulfilled by Major Requirements: Early or Soil Science Core</td>
</tr>
<tr>
<td>Biological Science with Lab</td>
<td>BI 204 or 211</td>
<td>Fulfilled by Major Requirements: Biology I</td>
</tr>
<tr>
<td>Additional Science with Lab</td>
<td>BI 205 or 212</td>
<td>Fulfilled by Major Requirements: Biology II</td>
</tr>
<tr>
<td>Western Culture</td>
<td>Choose one course from list above</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Choose one course from list above</td>
<td></td>
</tr>
<tr>
<td>Literature &amp; Arts</td>
<td>Choose one course from list above</td>
<td></td>
</tr>
<tr>
<td>Social Processes &amp; Institutions</td>
<td>Major Course or Choose one course from list above</td>
<td>Possible to fulfill with major requirements – consult advisor</td>
</tr>
<tr>
<td>Difference, Power, Discrimination</td>
<td>Choose one course from list above</td>
<td>Possible to fulfill with major requirements – consult advisor</td>
</tr>
<tr>
<td>Contemporary Global Issues</td>
<td>Upper-division course required</td>
<td>Possible to fulfill with major requirements – consult advisor</td>
</tr>
<tr>
<td>Science, Technology, Society</td>
<td>FES 485 Consensus &amp; Natural Resources</td>
<td>Fulfilled by Major Requirements: FES 485</td>
</tr>
<tr>
<td>Writing Intensive Course – major specific</td>
<td>Upper-division course required</td>
<td>Fulfilled by Major Requirements</td>
</tr>
</tbody>
</table>

**OSU Contact:** Terina McLachlain, Natural Resources Program Manager
541-207-3580
terina.mclachlain@oregonstate.edu
studynaturalresources@oregonstate.edu

**OSU Transfer Student Resources:** http://transfer.oregonstate.edu/

**C OCC Contact:** Rebecca Franklin
541-330-4378
rfranklin@cocc.edu