# Natural Resources – Human Dimensions in Natural Resources Option

[http://www.forestry.oregonstate.edu/academic-programs/undergraduates/natural-resources](http://www.forestry.oregonstate.edu/academic-programs/undergraduates/natural-resources)

## Degree Requirements:
- BS in Natural Resources – Human Dimensions 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

(Complete one course from each category)

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<tr>
<th>Natural Resources Major Requirements</th>
<th>OSU Course</th>
<th>Umpqua CC Course</th>
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<tr>
<td>Consensus &amp; Natural Resources</td>
<td>FES 485. *Consensus &amp; Natural Resources</td>
<td>Online at OSU</td>
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<tr>
<td>Managing Natural Resources</td>
<td>NR 201. Managing Natural Resources for the Future</td>
<td>FOR 111/NR 201</td>
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<td>Natural Resources Decision-Making</td>
<td>NR 455. Natural Resource Decision-Making</td>
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<tr>
<td>Advanced Communications</td>
<td>UCC Course: NR 295 Environmental Dispute Resolution</td>
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<td>COMM 321. Introduction to Communication Theory</td>
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<td>COMM 322. Small-Group Problem Solving</td>
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<td>COMM 328. Nonverbal Communication</td>
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<td>COMM 385. Communication and Culture in Cyberspace</td>
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<td>COMM 440. Theories of Conflict and Conflict Management</td>
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<td>COMM 442. Bargaining and Negotiation Processes</td>
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<td>FES 430. Forest as Classroom</td>
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<td>FW 489. Effective Comm. for Fisheries &amp; Wildlife Science</td>
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<td>NR 312. Critical Thinking for Natural Resource Challenges</td>
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<td>TRAL 493. Environmental Interpretation</td>
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<td>WR 362. Science Writing</td>
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<td>WR 462. *Environmental Writing</td>
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<td>Biology I</td>
<td>BI 204. *Introductory Biology I</td>
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<td>BI 211. *Principles of Biology I</td>
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<td>Biology II</td>
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<td>BI 212. *Principles of Biology II</td>
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<td>BI 213. *Principles of Biology III</td>
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<td>Chemistry</td>
<td>CH 121. General Chemistry</td>
<td>CH 104 or 112</td>
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<td>CH 231 &amp; 261. *General Chemistry with Lab</td>
<td>CH 221</td>
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<td>Climate Science</td>
<td>ATS 201. *Climate Science</td>
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<td>FW 345. Global Change Biology</td>
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<td>GEOG 323. *Climatology</td>
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<td>SUS 103. *Introduction to Climate Change</td>
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| Earth or Soil Science | CSS 205. *Soil Science  
CSS 305. Principles of Soil Science  
SOIL 205 & SOIL 206. *Soil Science with lab  
SOIL 205 & FOR 206. * Soil Science with Forest Soils Lab  
GEO 101. *The Solid Earth  
GEO 201. *Physical Geology  
GEO 202. *Earth Systems Science  
GEO 221. *Environmental Geology  
GEOG 102. *Physical Geography  | SOIL 205 & 206  
SOIL 205 & 206  
Online at OSU  
G 201  
G 202  
G 221  
Online at OSU |
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| Ecology | BI 351. Marine Ecology (3)  
BI 370. General Ecology (3)  
BOT 341. Plant Ecology (4)  
FES 341. Forest Ecology (3)  | Online at OSU  
Online at OSU  
Online at OSU  
Online at OSU |
| Mathematics | MTH 112. *Elementary Functions  
MTH 241. *Calculus for Management and Social Science  
MTH 245. *Math for Mgmt, Life, and Social Sciences  
MTH 251. *Differential Calculus  | MTH 112  
MTH 241  
MTH 245  
MTH 251 |
| Statistics | ST 201. Principles of Statistics  
ST 351. Introduction to Statistical Methods  | MTH 243  
Online at OSU |
| Animal ID | FES 412. Forest Entomology  
FW 312. Systematics of Birds  
FW 316. Systematics of Fishes  
FW 318. Systematics of Mammals  
Z 365. Biology of Insects  
Z 477. Aquatic Entomology  | Online at OSU  
Online at OSU  
Online at OSU  
Online at OSU |
| Environmental Assessment & Planning | FW 462. Ecosystem Services  
GEOG 250. Land Use Planning for Sustainable Communities  
GEOG 450. Land Use in the American West  
GEOG 452. Sustainable Site Planning  
RNG 421. Wildland Restoration and Ecology  
RNG 490. Rangeland Management Planning  
SUS 304. *Sustainability Assessment  
SUS 350. *Sustainable Communities  
TRAL 456. Planning for Sustainable Recreation  
TRAL 457. Planning for Sustainable Tourism  
NR 325. Scientific Methods for Analyzing NR Problems  | Online at OSU  
Online at OSU  
Online at OSU  
Online at OSU  
Online at OSU |
| Fisheries & Marine Sciences | BI 150. Introduction to Marine Biology  
BI/FW 302. Biology and Conservation of Marine Mammals  
BI 347. Ocean in Peril  
BI 351. Marine Ecology  
FW 320. Introductory Population Dynamics  
FW 323. Mgmt Principles of Pacific Salmon in the Northwest  
FW 454. *Fishery Biology  
FW 465. Marine Fisheries  
FW 473. Fish Ecology  
FW 481. Wildlife Ecology  
OC 201. Oceanography  
OC 332. Coastal Oceanography  | Online at OSU  
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<th>FE/FOR 456. *International Forestry</th>
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<td>FES 341. Forest Ecology</td>
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<td>FES 342. Forest Types of the Northwest</td>
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<td>FES 440. Wildland Fire Ecology</td>
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<td>FES/FW 445. Ecological Restoration</td>
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<td>FES/FW 452. Biodiversity Conservation in Managed Forests</td>
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<td>FES/NR 477. *Agroforestry</td>
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<td>FOR 346. Topics in Wildland Fire</td>
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<td>Land and Water</td>
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<td>FW 456. Limnology</td>
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<td>FW 479. Wetlands and Riparian Ecology</td>
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<td>GEO 307. *National Park Geology and Preservation</td>
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<td>GEOG 340. *Introduction to Water Science and Policy</td>
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<td>SOIL 366. Ecosystems of Wildland Soils</td>
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<td>SOIL 388 Soil Systems and Plant Growth</td>
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<td>BOT 425. Flora of the Pacific Northwest</td>
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<td>HORT 226. Landscape Plant I: Decid. Hardwoods &amp; Conifers</td>
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<td>HORT 228. Landscape Plant II: Spring Flow. Trees &amp; Shrubs</td>
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<td>FW 320. Introductory Population Dynamics</td>
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<td>FW 321. Applied Community &amp; Ecosystems Ecology</td>
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<td>FW 435. *Wildlife in Agricultural Ecosystems</td>
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<td>FW 451. Avian Conservation and Management</td>
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<td>FES/FW 452. Biodiversity Conservation in Managed Forests</td>
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<td>Z 350. Animal Behavior</td>
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<td>Ethics and Philosophy</td>
<td>AG 301. *Ecosystem Science of Pacific NW Indians</td>
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<td>ANTH 477. Ecological Anthropology</td>
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<td>ANTH 481. *Natural Resources and Community Values</td>
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<td>ANTH 482. *Anthropology of International Development</td>
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<td>FW 340. *Multicultural Perspectives in Natural Resources</td>
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<td>GEO 309. *Environmental Justice</td>
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<td>HST 481. *Environmental History of the United States</td>
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<td>NR 312. Critical Thinking for Natural Resource Challenges</td>
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<td>PHL 440. *Environmental Ethics</td>
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<td>PHL/REL 443. *World Views and Environmental Values</td>
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<tr>
<td>Natural Resource Policy</td>
<td>AEC 432. Environmental Law</td>
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<td>AEC 454. Rural Development Economics and Policy</td>
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<td>FE 460. *Forest Operations Regulations and Policy Issues</td>
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<td>FOR 460. *Forest Policy</td>
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<td>FOR 462. Natural Resource Policy and Law</td>
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<td>FW 415. Fisheries and Wildlife Law and Policy</td>
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<td>FW 422. Intro to Ocean Law</td>
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<td>PS 473. US Energy Policy</td>
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<td>PS 475. Environmental Politics and Policy</td>
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<td>Political Issues</td>
<td>ENT 300/HORT 330. *Plagues, Pests, and Politics</td>
<td>Online at OSU</td>
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<td>FES 454. Managing at the Wildland-Urban Interface</td>
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<td>FW 350. *Endangered Species, Society and Sustainability</td>
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<td>NR 351. *Science and Resource Management</td>
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<td>PS 455. *The Politics of Climate Change</td>
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<td>TRAL 352. Wilderness Management</td>
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<td>FES 355. Management for Multiple Resource Values</td>
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<td>FES 365. *Issues in NR Conservation</td>
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<td>FW 325. *Global Crises in Resource Ecology</td>
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<td>GEOG 300. *Sustainability for the Common Good</td>
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<td>GEOG 240. *Climate Change, Water and Society</td>
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<td>NR 351. *When Science Escapes the Lab</td>
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<td>SOC 381. Social Dimensions of Sustainability</td>
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<td>SOC 475. Rural Sociology</td>
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<td>TRAL 251. Recreation Resource Management</td>
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<td>TRAL 351. Outdoor Recreation Mgmt on Public Lands</td>
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<td>TRAL 353. Nature, Eco, and Adventure Tourism</td>
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<td>TRAL 354. Communities, Natural Areas, and Sus. Tourism</td>
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<td>WGSS 440. *Women and Natural Resources</td>
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<td>Spatial Analysis</td>
<td>CROP/HORT 414. Precision Agriculture</td>
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<td>FE 257. GIS and Forest Engineering Applications</td>
<td>FOR/GIS 234</td>
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<td>FW 303. Survey of GIS in Natural Resources</td>
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<td>GEOG 201. *Foundations of Geospatial Science and GIS</td>
<td>GIS 203</td>
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<td>GEOG 360. GIScience I: GIS and Theory</td>
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<td>Human Dimensions Option Requirements</td>
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<td>Consensus &amp; Communication</td>
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<td>Policy &amp; Economics (Choose three courses)</td>
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<td>AEC 253. Environmental Law, Policy and Economics</td>
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<td></td>
<td>AEC 351. *Natural Resource Economics and Policy</td>
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<tr>
<td></td>
<td>AEC 432. Environmental Law</td>
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<tr>
<td></td>
<td>PS 475. Environmental Politics and Policy</td>
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<td>PS 477. International Environmental Politics and Policy</td>
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<tr>
<td>Management Issues (Choose three courses)</td>
<td>FES 355. Management for Multiple Resource Values</td>
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<td>FES 365. *Issues in Natural Resources Conservation</td>
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<td></td>
<td>FES 454. Managing at the Wildland-Urban Interface</td>
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<td>FES/HORT 455. Urban Forest Planning, Policy and Mgmt</td>
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<td></td>
<td>FW 251. Principles of Fish and Wildlife Conservation</td>
<td>NR 251</td>
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<td></td>
<td>FW 326. Integrated Watershed Management</td>
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<td></td>
<td>FW 350. Endangered Species, Society and Sustainability</td>
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<td></td>
<td>FW 439. *Human Dimensions of Fish and Wildlife Mgmt</td>
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<td>FW 462. Ecosystem Services</td>
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<td></td>
<td>GEOG 250. Land Use Planning for Sustainable Communities</td>
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<td>GEOG 430. Resilience-based Natural Resource Management</td>
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<td>GEOG 452. Sustainable Site Planning</td>
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<td>NR 202. Natural Resource Problems and Solutions</td>
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<td>TRAL 351. Recreation Behavior and Management</td>
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<td>TRAL 352. Wilderness Management</td>
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<tr>
<td></td>
<td>TRAL 354. Communities, Nat. Areas and Sus. Tourism</td>
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<tr>
<td>Intro to Sociology (Choose 12 credits)</td>
<td>SOC 204. *Introduction to Sociology</td>
<td>SOC 204</td>
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<tr>
<td>Social Issues (Choose 12 credits)</td>
<td>ANTH 110. *Introduction to Cultural Anthropology</td>
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<td></td>
<td>ANTH 477. Ecological Anthropology</td>
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<tr>
<td></td>
<td>ANTH 481. *Natural Resources and Community Values</td>
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<td>FW 340. *Multicultural Perspectives in Natural Resources</td>
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<td>GEOG 300. *Sustainability for the Common Good</td>
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<td>GEOG 331. *Population, Consumption and Environment</td>
<td>Online at OSU</td>
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<td>HST 481. *Environmental History of the U.S.</td>
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<td>NR 351. *When Science Escapes the Lab</td>
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<td>SOC 381. Social Dimensions of Sustainability</td>
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<td></td>
<td>SOC 480. *Environmental Sociology</td>
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<td>SOC 481. *Society and Natural Resources</td>
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<td>SUS 350. *Sustainable Communities</td>
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<td>SUS 420. Social Dimensions of Sustainability</td>
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<tr>
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<td>WGSS 440. Women and Natural Resources</td>
<td>Online at OSU</td>
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</tbody>
</table>

Up to 6 credits of relevant internship, projects, or study abroad may be applied in the elective requirement.
Umpqua Community College courses that fulfill OSU’s Baccalaureate Core requirements:
https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college

<table>
<thead>
<tr>
<th>OSU Baccalaureate Core (Complete one course from each category)</th>
<th>OSU Course</th>
<th>UCC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing I</td>
<td>WR 121</td>
<td>WR 121</td>
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<tr>
<td>Writing II</td>
<td>WR 326</td>
<td>WR 327</td>
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<tr>
<td></td>
<td>or</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Choose one course from list above</td>
<td>Possibly fulfilled by major requirements: WR 227</td>
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<tr>
<td>Speech</td>
<td>Choose one course from list above</td>
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<tr>
<td>Mathematics</td>
<td>MTH 105 or higher</td>
<td>Fulfilled by Major Requirements: MTH 112, 241 or 251</td>
</tr>
<tr>
<td>Fitness – complete both courses</td>
<td>HHS 231 Lifetime Fitness for Health</td>
<td>HPE 295</td>
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<tr>
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<td>HHS 241 Lifetime Fitness</td>
<td>HPE 295</td>
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<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>
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<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>
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<tr>
<td>Western Culture</td>
<td>Choose one course from list above</td>
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<tr>
<td>Cultural Diversity</td>
<td>Choose one course from list above</td>
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<tr>
<td>Literature &amp; Arts</td>
<td>Choose one course from list above</td>
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<tr>
<td>Social Processes &amp; Institutions</td>
<td>Major Course or</td>
<td>Possible to fulfill with major requirements – consult advisor</td>
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<tr>
<td></td>
<td>Choose one course from list above</td>
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<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</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:** College of Forestry Student Services  
541-737-1594  
studynaturalresources@oregonstate.edu

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

**UCC Contact:**  
Clay Baumgartner  
541-440-4683  
Clay.baumgartner@umpqua.edu

Updated 10/8/18 NK