

Transfer Guide: Natural Resources

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

Natural Resources Core Requirements (Complete one course from each category)	OSU Course	Umpqua CC Course
Animal ID	FW 312. Systematics of Birds FW 316. Systematics of Fishes FW 318. Systematics of Mammals Z 477. Aquatic Entomology	Available Online Available Online
Atmospheric Science	ATS 201. *Climate Science ATS 320. *The Changing Climate GEO 323. *Climatology SUS 103. *Introduction to Climate Change	Available Online Available Online Available Online Available Online
Biology I	BI 204* (or BI 101 or BI 211)	BI 211
Biology II	BI 205* (or BI 102 or BI 212)	BI 212
Biology III	BI 206* (or BI 103 or BI 213)	BI 213
Chemistry	CH 121 or CH 231* and CH 261*	CH 104 or CH 221 or CH 112
Communications	UCC Course: Environmental Dispute Resolution COMM 321. Introduction to Communication Theory COMM 322. Small-Group Problem Solving COMM 328. Nonverbal Communication COMM 385. Communication and Culture in Cyberspace COMM 440. Theories of Conflict and Conflict Management COMM 442. Bargaining and Negotiation Processes FES 485. *Consensus and Natural Resources FES 493. Environmental Interpretation NR 312. Critical Thinking for Natural Resource Challenges	NR 295 Available Online Available Online Available Online Available Online Available Online
Earth Science	GEO 101. *The Solid Earth GEO 102. *The Surface of the Earth GEO 201. *Physical Geology GEO 202. *Earth Systems Science GEO 221. *Environmental Geology	Available Online Available Online G 201 G 202 G 221
Environmental Assessment and Planning	FES 456. Planning for Sustainable Recreation FES 457. Planning for Sustainable Tourism FES 485. *Consensus and Natural Resources FES/FW 445. Ecological Restoration FW 435. *Wildlife in Agricultural Ecosystems GEOG 450. Land Use in the American West PS 449. *Topics in Comparative Politics PS 477. International Environmental Politics and Policy RNG 421. Wildland Restoration and Ecology RNG 490. Rangeland Management Planning SUS 304. *Sustainability Assessment SUS 350. *Sustainable Communities	Available Online Available Online Available Online Available Online Available Online Available Online Available Online Available Online Available Online
General Ecology	BI 370. Ecology BOT 341. Plant Ecology FES 240. *Forest Biology FES 341. Forest Ecology	Available Online Available Online NR 240 Available Online

Natural Resources students must also complete coursework from seven different "breadth" areas (one course per block) as well as an option within the major. Students are encouraged to work with an OSU Natural Resources Advisor to plan courses that will transfer efficiently. The entire degree can be completed online. In addition to courses that fulfill the Natural Resources major requirements, students should be completing courses to fulfill [OSU's Baccalaureate Core](#) (general education curriculum). Major requirements that fulfill Baccalaureate Core are marked with an asterisk (*).

Umpqua Contact: Ken Carloni
541-440-7641

OSU Contact: Terina McLachlain

Geographic Information Science (GIS)	CROP/HORT 414. Information Systems in Agriculture FE 257. GIS and Forest Engineering Applications FW 303. Survey of GIS in Natural Resource GEOG 201. Foundations of Geospatial Science and GIS GEOG 360. Introduction to Geographic Information Systems	FOR/GIS 124 or 234 Available Online Available Online Available Online
Managing Natural Resources for the Future	NR 201. Managing Natural Resources for the Future	FOR/NR 201
Mathematics	MTH 112. *Elementary Functions MTH 241. *Calculus for Management and Social Science MTH 245. *Mathematics for Management, Life & Social Sciences MTH 251. *Differential Calculus	MTH 112 MTH 241 Available Online MTH 251
Biological/Physical Science Measurements	BI 371. *Ecological Methods BOT 440. Field Methods in Plant Ecology FE 208. Forest Surveying FOR 321. Forest Mensuration FW 255. Field Sampling of Fish and Wildlife GEOG 452. Sustainable Site Planning NR 325. Scientific Methods for Analyzing Natural Resource Problems RNG 441. Rangeland Analysis FES 422. Research Methods in Social Science	Available Online Available Online Available Online
Social Science or Measurements		
Natural Resource Decision Making	NR 455. Natural Resource Decision Making	Available Online
Natural Resource Policy	AEC 454. Rural Development Economics & Policy FOR 460. *Forest Policy FOR 462. Natural Resource Policy and Law GEOG 340/SOIL 335. *Introduction to Water Science and Policy PS 475. Environmental Politics and Policy PS 477. International Environmental Politics and Policy	Available Online Available Online Available Online Available Online
Resource Economics	AEC 351. *Natural Resource Economics and Policy AEC/ECON 352. *Environmental Economics and Policy AEC 454. Rural Development Economics & Policy FOR 330. Forest Conservation Economics	Available Online Available Online Available Online
Society & Natural Resources	UCC Course: Cultural Anthropology ANTH 110. *Introduction to Cultural Anthropology FES 251. Recreation Resource Management FES 354. Communities, Natural Areas & Sustainable Tourism FES 355. Management for Multiple Resource Values GEOG 240. *Climate Change, Weather, and Society	ANTH 221, 222, or 223 Available Online Available Online
Soil Science	CSS 205. *Soil Science or CSS 305. Principles of Soil Science or SOIL 205. *Soil Science and FOR/SOIL 206. *Forest Soils Lab	FOR/SOIL 205 & 206
Statistics	ST 201. Principles of Statistics ST 351. Introduction to Statistical Methods	MTH 243
Vegetation ID	BOT 321. Plant Systematics BOT 414. Agrostology BOT 425. Flora of the Pacific Northwest FES 241. Dendrology HORT 226. Landscape Plant Mat. I: Decid. Hardwoods & Conifers HORT 228. Landscape Plant Mat. II: Spring Flowering Trees & Shrubs RNG 353. Wildland Plant Identification	FOR/NR 241 Available Online Available Online Available Online
Water Science	UCC Course: Water Resource Science FE 430. Watershed Processes FW 326. Integrated Watershed Management OC 201. *Oceanography OC 332. Coastal Oceanography RNG 355. Desert Watershed Management	NR 221 Available Online Available Online Available Online Available Online

Umpqua Community College courses that fulfill OSU's Baccalaureate Core requirements:

<http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college>

OSU Baccalaureate Core (Complete one course from each category)	OSU Course	Transfer Course
Writing I	WR 121 English Composition	WR 121
Writing II	Choose one course from link above	
Speech	COMM 111 Public Speaking COMM 114 Argument & Critical Discourse	SP 111 or SP 112
Mathematics	MTH 105 or higher	Fulfilled by major requirements
Fitness	HHS 231 Lifetime Fitness for Health HHS 241 Lifetime Fitness	HPE 295
Physical Science with Lab	SOIL 205 & FOR 206	Fulfilled by major requirements
Biological Science with Lab	FES 240	Fulfilled by major requirements
Additional Science with Lab	Earth Science Course	Fulfilled by major requirements
Western Culture	Choose one course from link above	
Cultural Diversity	Choose one course from link above	
Literature & Arts	Choose one course from link above	
Social Processes & Institutions	ANTH 110	Fulfilled by major requirements
Difference, Power, Discrimination	Choose one course from link above	
Contemporary Global Issues	Upper-division course required	Must be completed at OSU
Science, Technology, Society	Upper-division course required	Must be completed at OSU
Writing Intensive Course – major specific	Upper-division course required	Must be completed at OSU