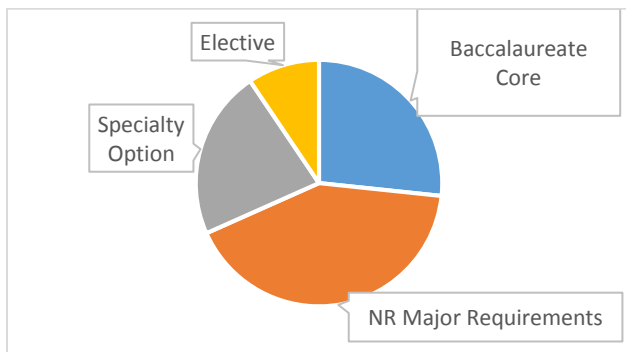




Natural Resources - Individualized Specialty Option

<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 (Complete one course from each category)	OSU Course	SWOCC Course
Consensus & Natural Resources	FES 485. Consensus & Natural Resources	Online at OSU
Managing Natural Resources	NR 201. Managing Natural Resources for the Future	NR 201 or F 111
NR Decision-Making	NR 455. Natural Resource Decision-Making	Online at OSU
Advanced Communications	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 430. Forest as Classroom FW 489. Effective Comm. for Fisheries & Wildlife Science NR 312. Critical Thinking for Natural Resource Challenges TRAL 493. Environmental Interpretation WR 362. Science Writing WR 462. *Environmental Writing	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Biology I	BI 101. *General Biology BI 204. *Introductory Biology I BI 211. *Principles of Biology I	BI 101 Online at OSU BI 201
Biology II	BI 102. *General Biology BI 205. *Introductory Biology II BI 212. *Principles of Biology II	BI 102 Online at OSU BI 202
Biology III	BI 103. *General Biology BI 205. *Introductory Biology III BI 213. *Principles of Biology III	BI 103 Online at OSU BI 203
Chemistry	CH 121. General Chemistry CH 231 & 261. *General Chemistry with Lab	Online at OSU CH 221
Climate Science	ATS 201. *Climate Science FW 345. Global Change Biology GEOG 323. *Climatology SUS 103. *Introduction to Climate Change	GEO 209 Online at OSU Online at OSU

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	Online at OSU ENV 235 Online at OSU G 201 G 202 Online at OSU Online at OSU
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 Online at OSU 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
Environmental Assessment & Planning	FES/FW 445. Ecological Restoration FW 462. Ecosystem Services GEOG 250. Land Use Planning for Sustainable Communities GEOG 450. Land Use in the American West GEOG 451. Plan. Prin. & Practices for Resilient Communities GEOG 452. Sustainable Site Planning NR 325. Scientific Methods for Analyzing NR Problems 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	Online at OSU 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 426. Coastal Ecology and Resource Management FW 454. *Fishery Biology FW 465. Marine Fisheries FW 473. Fish Ecology FW 481. Wildlife Ecology OC 201. Oceanography OC 332. Coastal Oceanography	BI 142 or BI 199 Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU GS 108

Forestry	FE/FOR 456. *International Forestry FES 240. *Forest Biology FES 341. Forest Ecology FES 342. Forest Types of the Northwest FES/HORT 350. Urban Forestry FES 440. Wildland Fire Ecology FES/FW 445. Ecological Restoration FES/FW 452. Biodiversity Conservation in Managed Forests FES/NR 477. *Agroforestry FOR 346. Topics in Wildland Fire FOR 441. Silviculture Principles	F 250 Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Land and Water	SWOCC Course: ENV 102. Intro to Water Resources SWOCC Course: NR 260. Watershed Processes FE 430. Watershed Processes FE 434 Forest Watershed Management FW 326. Integrated Watershed Management FW 456. Limnology FW 479. Wetlands and Riparian Ecology GEO 306. *Minerals, Energy, Water, and the Environment GEO 307. *National Park Geology and Preservation GEO 308. *Global Change and Earth Sciences GEOG 340. *Introduction to Water Science and Policy GEOG 440. Water Resources Mgmt. in the United States GEOG 441. International Water Resources Management RNG 355. Desert Watershed Management RNG 455. Riparian Ecohydrology and Management SOIL 366. Ecosystems of Wildland Soils SOIL 388. Soil Systems and Plant Growth SOIL 395. *World Soil Resources SOIL 466. Soil Morphology and Classification	ENV 102 NR 260 Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Range	FES 440. Wildland Fire Ecology FES/FW 445. Ecological Restoration FOR 346. Topics in Wildland Fire RNG 341. Rangeland Ecology and Management RNG 351. Range Ecology I-Grasslands RNG 352. Range Ecology II-Shrublands RNG 421. Wildland Restoration and Ecology RNG 441. Rangeland Analysis RNG 442. Rangeland-Animal Relations RNG 490. Rangeland Management Planning	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Vegetation ID	SWOCC Course: Landscape Plant Materials BOT 321. Plant Systematics BOT 414. Agrostology BOT 425. Flora of the Pacific Northwest FES 241. Dendrology HORT 226. Landscape Plant I: Decid. Hardwoods & Conifers HORT 228. Landscape Plant II: Spring Flow. Trees & Shrubs RNG 353. Wildland Plant Identification	HORT 226 or 228 Online at OSU Online at OSU Online at OSU Online at OSU
Wildlife Management	FW 251. Wildlife Conservation FW 320. Introductory Population Dynamics FW 321. Applied Community & Ecosystems Ecology FW 435. *Wildlife in Agricultural Ecosystems FW 451. Avian Conservation and Management FES/FW 452. Biodiversity Conservation in Managed Forests FW 458. Mammal Conservation and Management FW 481. Wildlife Ecology Z 350. Animal Behavior	Online at OSU Online at OSU

Ethics and Philosophy	AG 301. *Ecosystem Science of Pacific NW Indians ANTH 477. Ecological Anthropology ANTH 481. *Natural Resources and Community Values ANTH 482. *Anthropology of International Development FW 340. *Multicultural Perspectives in Natural Resources GEO 309. *Environmental Justice HST 481. *Environmental History of the United States NR 312. Critical Thinking for Natural Resource Challenges PHL 440. *Environmental Ethics PHL/REL 443. *World Views and Environmental Values	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Natural Resource Policy	AEC 432. Environmental Law AEC 454. Rural Development Economics and Policy FE 460. *Forest Operations Regulations and Policy Issues FOR 460. *Forest Policy FOR 462. Natural Resource Policy and Law FW 415. Fisheries and Wildlife Law and Policy FW 422. Intro to Ocean Law PS 473. US Energy Policy PS 475. Environmental Politics and Policy PS 477. International Environmental Politics and Policy	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Political Issues	ENT 300/HORT 330. *Plagues, Pests, and Politics FES 454. Managing at the Wildland-Urban Interface FOR 462. Natural Resource Policy and Law FW 350. *Endangered Species, Society and Sustainability NR 351. * Science and Resource Management PS 455. *The Politics of Climate Change PS 475. Environmental Politics and Policy PS 476. *Science and Politics PS 477. International Environmental Politics and Policy TRAL 352. Wilderness Management	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Resource Economics	AEC 351. *Natural Resource Economics and Policy AEC/ECON 352. *Environmental Economics and Policy AEC 454. Rural Development Economics and Policy FOR 330. Forest Resource Economics I	Online at OSU Online at OSU Online at OSU
Social Issues	FES 355. Management for Multiple Resource Values FES 365. *Issues in NR Conservation FW 325. *Global Crises in Resource Ecology GEOG 300. *Sustainability for the Common Good GEOG 240. *Climate Change, Water and Society GEOG 430. Resilience-based Natural Resource Management NR 351. *When Science Escapes the Lab SOC 381. Social Dimensions of Sustainability SOC 475. Rural Sociology SOC 480. *Environmental Sociology SOC 481. *Society and Natural Resources SUS 420. Social Dimensions of Sustainability TRAL 251. Recreation Resource Management TRAL 351. Outdoor Recreation Mgmt on Public Lands TRAL 352. Wilderness Management TRAL 353. Nature, Eco, and Adventure Tourism TRAL 354. Communities, Natural Areas, and Sus. Tourism WGSS 440. *Women and Natural Resources	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU F 251 Online at OSU Online at OSU
Spatial Analysis	CROP/HORT 414. Precision Agriculture FE 257. GIS and Forest Engineering Applications FW 303. Survey of GIS in Natural Resources GEOG 201. *Foundations of Geospatial Science and GIS GEOG 360. GIScience I: GIS and Theory	Online at OSU GEOG 265 or 270 Online at OSU Online at OSU Online at OSU

Individualized Specialty Option Requirements (Requires at least 40 credits, of which a minimum of 20 upper-division credits is required)	OSU Course	SWOCC Course
Measurements Course		
Other Courses selected by the student in consultation with an NR Advisor		

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

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

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

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OSU Transfer Student Resources: <http://transfer.oregonstate.edu/>

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