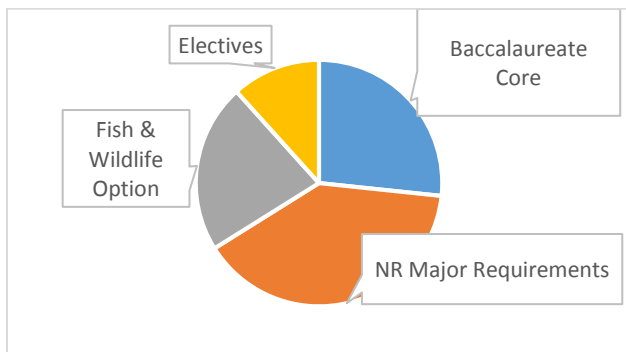




Natural Resources – Fish & Wildlife Conservation Option

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



Degree Requirements:

- BS in Natural Resources – Fish & Wildlife Conservation 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, Cascades, and Distance campuses

Natural Resources Core Requirements (Complete one course from each category)	OSU Course	Southwestern Oregon CC 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
Natural Resources 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
Biology I	BI 204. *Introductory Biology I BI 211. *Principles of Biology I	Online at OSU BI 201
Biology II	BI 205. *Introductory Biology II BI 212. *Principles of Biology II	Online at OSU BI 202
Biology III	BI 205. *Introductory Biology III BI 213. *Principles of Biology III	Online at OSU BI 203
Chemistry	CH 121. General Chemistry CH 231 & 261. *General Chemistry with Lab	Online at OSU CH 221
Climate Science	SWOCC Course: GEO 209: Weather & Climate 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 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 251 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	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 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
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 199 Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU GS 108

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 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 Online at OSU Online at OSU Online at OSU

Fish & Wildlife Conservation Option Requirements (complete one course in each category, a minimum of 20 upper-division credits is required)	OSU Course	SWOCC Course
Measurements	BI 373. Field Methods in Marine Ecology BI 375. Field Methods in Ecological Restoration FW 255. Field Sampling of Fish and Wildlife FW 493. Field Methods in Marine Research NR 325. Scientific Methods for Analyzing NR Problems RNG 441. Rangeland Analysis	FW 255 Online at OSU
Forestry	FES 342. Forest Types of the Pacific Northwest FOR 111. Intro to Forestry	Online at OSU F 111
Wildland Fire	FES 440. Wildland Fire Ecology FOR 346. Topics in Wildland Fire FOR 436. Wildland Fire Science Management	Online at OSU Online at OSU Online at OSU
Conservation	FES/FW 452. Biodiversity Conservation in Managed Forests FW 370. Conservation Genetics	Online at OSU Online at OSU
Fish & Wildlife Conservation	FW 251. Principles of Fish & Wildlife Conservation	Online at OSU
Fish & Wildlife Biology (Complete three courses)	FW 311. Ornithology FW 315. Ichthyology FW 317. Mammalogy FW/BI 302. Biology and Conservation of Marine Animals FW 320. Intro to Populations Dynamics FW 321. Applied Community Ecosystems Ecology FW 331. Ecology of Marine and Estuarine Birds FW 481. Wildlife Ecology FW 473. Fish Ecology Z 423. Environmental Physiology Z 473. Herpetology	Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU Online at OSU
Habitat Management (Complete two courses)	FES/FW 445. Ecological Restoration FW 326. Integrated Watershed Management FW 426. Coastal Ecology & Resource Management FW/OC 434. Estuarine Ecology FW 435. *Wildlife In Agricultural Ecosystems FW 456. Limnology FW 479. Wetlands & Riparian Ecology RNG 341. Rangeland Ecology and Management RNG 455. Riparian Ecology and Management SOIL 366. Ecosystems of Wildland Soils or SOIL 388. Soil Systems and Plant Growth or SOIL 466. Soil Morphology and Classification	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
Natural Resource Policy	FW 350. *Endangered Species, Society and Sustainability FW 415. Fisheries and Wildlife Law and Policy FW 439. *Human Dimensions of FW FOR 462. NR Policy and Law	Online at OSU Online at OSU Online at OSU
Fish & Wildlife Electives (Complete two courses) <i>Up to 6 credits of relevant internship, projects, or study abroad may be applied in the elective requirement.</i>	BI 347. Oceans in Peril BI/FW 421. Aquatic Biological Invasions ENSC 479. Environmental Case Studies FW 323. Management Principles of PNW Salmon or FW/HSTS 470. *Ecology & History Columbia Basin or FW 360. *Origins of FW Management FW 366. Environmental Contaminants in Fish and Wildlife FW 419. The Natural History of Whales and Whaling FW 427. Principles of Wildlife Disease FW 431. Dynamics of Marine Biological Resources FW 439. *Human Dimensions of F&W 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

Fish & Wildlife Electives continued	FW 451. Avian Conservation and Management	Online at OSU
	FW 454. *Fishery Biology	Online at OSU
	FW 462. Ecosystems Services	Online at OSU
	FW 465. Marine Fisheries	
	FW 467. Antarctic Science and Conservation	
	FW 469. Meth. in Physio. & Behavior of Marine Megafauna	Online at OSU
	FW 471. Environmental Physiology of Fishes	
	FW 474. Early Life History of Fishes	
	FW 475. Wildlife Behavior	Online at OSU
	FW 476. Fish Physiology	Online at OSU
	FW 497. *Aquaculture	Online at OSU
	FW 498. Aquaculture Laboratory	
	NR 202. NR Problems & Solutions	Online at OSU
	NR 325. Scientific Methods for Analyzing NR Problems	
	Z 349. Biodiversity: Causes, Consequences and Conserv.	Online at OSU
Z 350. Animal Behavior	Online at OSU	
Z 365. Biology of Insects		
Z 477. Aquatic Entomology		

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

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

OSU Baccalaureate Core (Complete one course from each category)	OSU Course	SWOCC Course
Writing I	WR 121	WR 121
Writing II	WR 326 WR 327 or Choose one course from list above	Possibly fulfilled by major requirements: WR 227
Speech	Choose one course from list above	
Mathematics	MTH 105 or higher	Fulfilled by Major Requirements: MTH 112, 241 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	FES 485	Fulfilled by Major Requirements
Writing Intensive Course – major specific	Upper-division course required	Fulfilled by Major Requirements

OSU Contact: College of Forestry Student Services

541-737-1594

studynaturalresources@oregonstate.edu

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

SWOCC Contact:

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