TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:
CORVALLIS

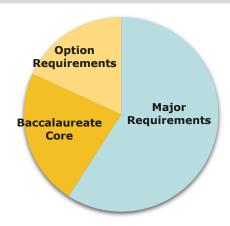
Southwestern Oregon Community College

Natural Resources Major with Integrated Conservation Analysis Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Learn to recognize, understand, analyze, and evaluate complex NR problems.

Students will contribute to finding solutions to critical issues by developing depth of knowledge in a disciplinary focus and working on cross-disciplinary teams. Learn about communicating findings effectively to diverse audiences.

Your Bachelor's Degree (BS) in Natural Resources



- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 are accepted.
- More info forestry.oregonstate.edu/undergraduateprograms/natural-resources/integrated-conservationanalysis

Courses Required for Natural Resources Major

NR Core Requirements Complete one course per category	SWOCC Course	OSU Course	Notes
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future	NR 201	NR 201	Available online at OSU
Natural Resource Problems & Solutions		NR 202	Available online at OSU
Natural Resources Decision Making		NR 455	Available online at OSU
Advanced Communication Intro to Communication Theory Small Group Problem Solving Communication in Organizations Intercultural Communication Non-Verbal Communication Communication and Culture in Cyberspace Theories of Conflict and Conflict Management Bargaining and Negotiating Processes Forest as Classroom	SP 115	COMM 321 COMM 322 COMM 324 COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 FES 430	Available online at OSU Available online at OSU Available online at OSU
Effective Comm in Fish & Wildlife Sciences Critical thinking for NR Challenges Environmental Interpretation Technical Writing Science Writing Environmental Writing Professional Writing	WR 227	FW 489 NR 312 TRAL 493 WR 327 WR 362 WR 462 WR 466	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Biology I General Biology I with Lab Introduction to Biology I Principles of Biology: Cells	BI 101 BI 201	BI 101 BI 204 BI 221	Available online at OSU Available online at OSU



NR Core Requirements (continued) Complete one course per category	SWOCC Course	OSU Course	Notes
Biology II	DI 102	DI 102	Aveilable selies at OCH
General Biology II with Lab Introduction to Biology II	BI 102	BI 102 BI 205	Available online at OSU Available online at OSU
Principles of Biology: Organisms	BI 202	BI 222	Available offilite at 030
Biology III	-		
General Biology III with Lab	BI 103	BI 103	Available online at OSU
Introduction to Biology III	DI 202	BI 206	Available online at OSU
Principles of Biology: Populations Chemistry	BI 203	BI 223	+
General Chemistry I with Lab		CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CHEM 221 or 222 or 223	CH 231 & 261	Available online at OSU
Climate Science			
SWOCC Course: Weather & Climate	GEO 209	ATC 201	Available online at OCH
Climate Science Global Change Biology		ATS 201 FW 345	Available online at OSU
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Earth or Soil Science		000 205	A - 11-11 11 1 - OGU
Soil Science Principles of Soil Science		CSS 205 CSS 305	Available online at OSU
The Solid Earth		GEO 101	Available online at OSU
Physical Geology	G 201	GEO 201	
Earth Systems Science	G 202	GEO 202	
Environmental Geology		GEO 221 GEOG 102	Available online at OSU Available online at OSU
Physical Geography Soil Science with Lab		SOIL 205 & 206	Available online at USU
Soil Science with Forest Soils Lab	ENV 235	SOIL 205 & FOR 206	
Ecology			
Marine Ecology		BI 351	Available online at OSU
General Ecology Plant Ecology		BI 370 BOT 341	Available online at OSU Available online at OSU
Forest Ecology		FES 341	Available online at OSU
Mathematics			
Elementary Functions	MTH 112	MTH 112	Available online at OSU
Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science	MTH 241	MTH 241 MTH 245	Available online at OSU Available online at OSU
Differential Calculus	MTH 251	MTH 251	Available online at OSU
Statistics			
Principles of Statistics	MTH 243 or 244	ST 201	Available online at OSU
Intro to Statistical Methods Animal ID		ST 351	Available online at OSU
Terrestrial Vertebrate ID & Natural History		FOR 210	
Forest Entomology		FES 412	
Systematics of Birds		FW 312	Available online at OSU
Systematics of Fishes		FW 316	Available online at OSU
Systematics of Mammals Biology of Insects		FW 318 Z 365	Available online at OSU
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 477	
Environ. Assessment & Planning		FFC/FW 445	
Ecological Restoration Ecosystems Services		FES/FW 445 FW 462	Available online at OSU Available online at OSU
Land Use Planning for Sust. Communities		GEOG 250	Available online at OSU
Land Use in the American West		GEOG 450	
Planning Principles for Resilient Communities		GEOG 451	
Sustainable Site Planning Scientific Methods for Applyzing NP Problems		GEOG 452 NR 325	Available online at OSU
Scientific Methods for Analyzing NR Problems Wildland restoration and Ecology		RNG 421	Available online at OSU
Habitat Analysis I		RNG 457	Available online at OSU
Rangeland Management and Planning		RNG 490	Available online at OSU
Sustainability Assessment		SUS 304	Available online at OSU
Sustainable Communities Planning for Sustainable Recreation		SUS 350 TRAL 456	Available online at OSU
Planning for Sustainable Tourism		TRAL 450	

NR Core Requirements (continued)	SWOCC Course	OSU Course	Notes
Complete one course per category	211000 000130	000 000.00	110105
Fish & Marine Sciences			
Intro to Marine Biology	BI 142	BI 150	
Biology of Marine Mammals		FW 302	Available online at OSU
Oceans in Peril		BI 347	Available online at OSU
Marine Ecology		BI 351	Available online at OSU
Intro to Population Dynamics		FW 320	Available online at OSU
Mgmt Principles of Pacific Salmon in the NW		FW 323	Available online at OSU
Coastal Ecology and Resource Management		FW 426	Available online at OSU
Fishery Biology		FW 454	Available online at OSU
Marine Fisheries		FW 465	Available offilite at 050
Fish Ecology		FW 473	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
	GS 108		Available online at OSU
Oceanography	GS 106	OC 201	Available offille at 050
Coastal Oceanography		OC 332	
Forestry			
International Forestry		FE/FOR 456	
Forest Biology	F 250	FES 240	Available online at OSU
Forest Ecology		FES 341	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Urban Forestry		FES/HORT 350	Available online at OSU
Wildland Fire Ecology		FES 440	Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Biodiversity Conservation in Managed Forests		FES/FW 452	Available online at OSU
Agroforestry		FES/NR 477	Available offine at 656
Topics in Wildland Fire		FOR 346	Available online at OSU
			Available offille at 050
Silviculture Principles		FOR 441	
Land & Water	ND OCO		
SWOCC: Watershed Processes	NR 260		
Watershed Processes		FE 430	Available online at OSU
Forest Watershed Management		FE 434	
Integrated Watershed Management		FW 326	Available online at OSU
Freshwater Ecology and Conservation		FW 456	Available online at OSU
Wetlands and Riparian Ecology		FW 479	Available online at OSU
Minerals, Energy, Water and the Environment		GEO 306	Available online at OSU
National Park Geology and Preservation		GEO 307	Available online at OSU
Global Change and Earth Sciences		GEO 308	Available online at OSU
Introduction to Water Science & Policy		GEOG 340	Available online at OSU
Water Resources Management in the U.S.		GEOG 440	Available offine at 656
International Water Resource Management		GEOG 441	Available online at OSU
Desert Water Shed Management		RNG 355	Available online at OSU
Riparian Ecohydrology and Management		RNG 455	
			Available online at OSU
Ecosystems of Wildland Soils		SOIL 366	Available online at OSU
Soil Systems and Plant Growth		SOIL 388	Available online at OSU
World Soil Resources		SOIL 395	Available online at OSU
Soil Morphology and Classification		SOIL 466	Available online at OSU
Range			
Wildland Fire Ecology		FES 440	Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Topics in Wildland Fire		FOR 346	Available online at OSU
Rangeland Ecology and Management		RNG 341	Available online at OSU
Range Ecology I – Grasslands		RNG 351	Available online at OSU
Range Ecology II – Shrub Lands		RNG 351	Available online at OSU
Wildland Restoration and Ecology		RNG 421	Available online at OSU
		RNG 421	
Rangeland Animal Polations			Available online at OSU
Rangeland-Animal Relations		RNG 442	Available online at OSU
Rangeland Management and Planning		RNG 490	Available online at OSU
Vegetation ID			
Plant Systematics		BOT 321	
Agrostology		BOT 414	
Flora of the Pacific Northwest		BOT 425	
		L EEC 241	Available enline at OCH
Dendrology	F 241	FES 241	Available online at OSU
	F 241	HORT 226	Available online at OSU
Dendrology	F 241		

NR Core Requirements (continued)			
Complete one course per category	SWOCC Course	OSU Course	Notes
Wildlife Management			
Principles of Fish & Wildlife Conservation		FW 251	Available online at OSU
Introductory Population Dynamics		FW 320	Available online at OSU
Applied Community and Ecosystem Ecology		FW 321	Available online at OSU
Wildlife in Agricultural Ecosystems		FW 435	Available online at OSU
Avian Conservation and Management		FW 453	Available online at OSU
Biodiversity Conservation in Managed Forests		FES/FW 452	Available online at OSU
Mammal Conservation and Management		FW 458	Available online at OSU
3			
Wildlife Ecology		FW 481 Z 350	Available online at OSU
Animal Behavior		2 350	Available online at OSU
Ethics & Philosophy		AC 201	Aveilable selies at OCH
Ecosystems Science of the PNW Indians		AG 301	Available online at OSU
Anthropology, Health, and the Environment		ANTH 352	Available online at OSU
Ecological Anthropology		ANTH 477	Available online at OSU
Natural Resources and Community Values		ANTH 481	Available online at OSU
Anthropology of International Development		ANTH 482	
Multicultural Perspectives in NR		FW 340	Available online at OSU
Transforming Environmental Conflicts		GEOG 241	Available online at OSU
Environmental Justice		GEOG 330	Available online at OSU
Environmental History of the United States		HST 481	Available online at OSU
Critical Thinking for NR Challenges		NR 312	
Nature in Storytelling over the Centuries		NR 380	Available online at OSU
Environmental Ethics		PHL 440	Available online at OSU
World View and Environmental Values		PHL/REL 443	Available online at OSU
Sustainability, Justice & Engagement		SUS 331	Available online at OSU
Natural Resource Policy			
Environmental Law		AEC 432	Available online at OSU
Rural Development Economics & Policy		AEC 454	Available online at OSU
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy		FOR 460	
Natural Resources Policy and Law		FOR 462	
Fish & Wildlife Law and Policy		FW 415	Available online at OSU
Introduction to Ocean Law		FW 422	Available online at OSU
U.S. Energy Policy		PS 473	Available online at OSU
Environmental Politics and Policy		PS 475	Available online at OSU
International Environmental Politics & Policy		PS 477	Available online at OSU
Political Issues			
Plagues, Pests, and Politics		ENT/HORT 300	Available online at OSU
Natural Resource Policy and Law		FOR 462	
Endangered Spec, Society and Sustainability		FW 350	Available online at OSU
The Politics of Climate Change		PS 455	Available online at OSU
Environmental Politics and Policy		PS 475	Available online at OSU
Science and Politics		PS 476	Available online at OSU
International Environmental Politics & Policy		PS 477	Available online at OSU
Wilderness Management		TRAL 352	Available online at OSU
Economics		TIME 332	Available offiline at 050
Intro to Environmental Economics & Policy		AEC 250	Available online at OSU
Intro to Environmental Economics & Policy Intro to Microeconomics	ECON 201	ECON 201	Available online at OSU
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NR Core Requirements (continued) Complete one course per category	SWOCC Course	OSU Course	Notes
Social Issues			
Human Impacts on Ecosystems		BI 301	
Human Ecology		BI 348	
Issues in Natural Resource Conservation		FES 365	Available online at OSU
Global Crises in Resource Ecology		FW 325	Available online at OSU
Sustainability for the Common Good		GEOG 300	Available online at OSU
Climate Change, Water and Society		GEOG 240	
Transforming Environmental Conflicts		GEOG 241	
Resilience-Based Natural Resource Mgmt		GEOG 430	
Global Resource Development		GEOG 431	
When Science Escapes the Lab		NR 351	
Oceans, Coasts & People		OC 333	Available online at OSU
Social Dimensions of Sustainability		SOC 381	Available online at OSU
Rural Sociology		SOC 475	
Environmental Sociology		SOC 480	Available online at OSU
Society and Natural Resources		SOC 481	Available online at OSU
Social Dimensions of Sustainability		SUS 420	Available online at OSU
Recreation Resource Management	F 251	TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	
Wilderness Management		TRAL 352	Available online at OSU
Nature, Eco, and Adventure Tourism		TRAL 353	
Communities, Natural Areas, and Tourism		TRAL 354	
Parks & Protected Areas		TRAL 357	
Women and Natural Resources		WGSS 440	Available online at OSU
Spatial Analysis			
Precision Agriculture		CROP/HORT 414	Available online at OSU
GIS and Forest Engineering Applications	GEOG 265	FE 257	Available online at OSU
Survey of Geographic Information Systems		FW 303	Available online at OSU
Foundations of Geospatial Science & GIS		GEOG 201	Available online at OSU
Geoscience I: GIS and Theory		GEOG 360	Available online at OSU

Courses Required for Integrated Conservation Analysis Option

Requirement Complete one course per category	SWOCC Course	OSU Course	Notes
Scientific Methods for Analyzing NR Problems		NR 325	
Critical Thinking for NR Challenges		NR 312	
When Science Escapes the Lab		NR 351	
Natural Resources Economics & Policy		AEC 351	Available online at OSU
Environmental Economics & Policy		AEC/ECON 352	Available online at OSU
Intro to Coastal & Marine Resource Econ		AEC 353	Available online at OSU
Rural Development Economics & Policy		AEC 454	
Econ of Traditional & Renewable Econ		ECON 466	Available online at OSU
Forest Resource Economics I		FOR 329	
Economics & Policy of Wildland Fire		FOR 431	Available online at OSU
Economics of Recreation & Tourism		TRAL 432	
Disciplinary Focus – 22 credits minimum Select an area of focus from Policy, Social			
Science/Human Dimensions, or an Ecological			
Discipline. Students are required to submit a			
plan for these courses, and it must be			
approved by NR Program Director.			

General Education Courses (called the Baccalaureate Core)

- · Complete one course in each Perspective category with no more than two in the same department.
- Full listing of SWOCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college</u>

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 112 or higher WR 121. Required to transfer. Can be completed as part of major: see advisor Choose one course from Bacc Core link above PE 231 @ SWOCC
PERSPECTIVE COURSES	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Completed as part of major: BI 101 or 201 @ SWOCC Completed as part of major: CHEM 221 @ SWOCC Completed as part of major: BI 102 or 202 @ SWOCC Choose one course from Bacc Core link above Choose one course from Bacc Core link above Completed as part of major: ECON 201 @ SWOCC Choose one course from Bacc Core link above
DPD COURSE	Difference, Power, & Discrimination	Can be completed as part of major: see advisor
SYNTHESIS COURSES	Contemporary Global Issues Science, Technology, & Society	Upper division course, take through OSU Upper division course, take through OSU

Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. See your community college advisor first and use this Transfer Guide to help you plan. It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

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OSU College of Forestry Prospective Student Advisor	Autumn VanderLinden 541-737-9135 Autumn.VanderLinden@oregonstate.edu