

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

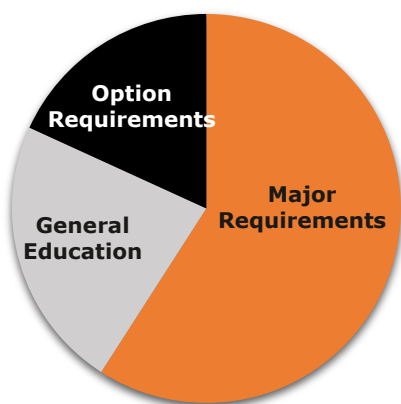
**Southwestern Oregon  
Community College**

## Natural Resources Major with NR Education Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations.

This option prepares students for careers as natural resource educators. Students may choose to focus on teaching in informal settings like interpretive centers, aquariums, museums, or parks or a career in formal education in a K-12 classroom.

## 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/undergraduate-programs/natural-resources/natural-resource-education](http://forestry.oregonstate.edu/undergraduate-programs/natural-resources/natural-resource-education)

## Courses Required for Natural Resources Major

NR Major Requirements	SWOCC Course	OSU Course	Notes
<i>Complete one course per category</i>			
Managing Nat Res for the Future	NR 201	NR 201	Available online at OSU
Natural Resource Problems & Solutions		NR 202	Available online at OSU
Consensus and Natural Resources		FES 485	Available online at OSU
Natural Resources Decision Making		NR 455	Available online at OSU
<b>Advanced Communication</b>			
Communication in Global Agriculture		AG 351	Available online at OSU
Social Media Advocacy in Ag Sci & Nat Res		AG 445	Available online at OSU
Risk & Crisis Communication in Ag Sci & NR		AG 455	
Small Group Communication		COMM 222	
Intercultural Communication		COMM 226	Available online at OSU
Communication in Organizations		COMM 324	
Non-Verbal Communication		COMM 328	
Communication in Cyberspace		COMM 385	Available online at OSU
Theories of Conflict and Conflict Management		COMM 440	
Bargaining and Negotiating Processes		COMM 442	
Environmental Case Studies		ENSC 321	Available online at OSU
Forest as Classroom		FES 430	Available online at OSU
Maps, Media and Communication		GEOG 202	
Effective Comm of Environmental Change Sci		GEOG 453	
Critical thinking for NR Challenges		NR 312	
Environmental Interpretation		TRAL 493	Available online at OSU
Technical Writing		WR 227Z	Available online at OSU
Advanced Writing & Argumentation		WR 323	Available online at OSU
Science Writing		WR 362	Available online at OSU
Writing for the Natural Sciences		WR 375	
Environmental Writing		WR 462	Available online at OSU

<b>NR Major Requirements</b> <i>Complete one course per category</i>	<b>SWOCC Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Writing Intensive Course</b> Ag and Environmental Predicaments Environmental Case Studies Public Lands Policy and Management Forest Policy and Regulation Aquaculture Climatology Research Methods Rangeland Management and Planning World Soil Resources Environmental Writing		CROP/SOIL/SUS 325 ENSC 321 FES 486 FE/FOR 463 FW 497 GEOG 323 PS 300 RNG 491 SOIL 395 WR 462	Available online at OSU Available online at OSU  Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
<b>Biology I</b> Env Bio: Ecology, Cons., Global Change Introductory Biology I Principles of Biology: Cells	BI 101 BI 221Z	BI 101 BI 204 BI 221Z	Available online at OSU Available online at OSU
<b>Biology II</b> Animal Bio: Genes, Behavior, and Evolution Introductory Biology II Principles of Biology: Organisms	BI 102 BI 222Z	Z 102 BI 205 BI 222Z	Available online at OSU Available online at OSU
<b>Biology III</b> Human Bio: Anatomy, Phys, and Disease Introductory Biology III Principles of Biology: Ecology & Evolution	BI 103 BI 223Z	BI 103 BI 206 BI 223Z	Available online at OSU Available online at OSU
<b>Chemistry</b> General Chemistry I with Lab General Chemistry (Majors) I with Lab	CHEM 221Z & 227Z	CH 121 CH 221Z & 227Z	Available online at OSU Available online at OSU
<b>Climate Science</b> SWOCC Course: Weather & Climate Climate Science Snow, Smoke and Storms: Climate in PNW Climatology Intro to Climate Change	GEOG 209	GEOG LDT ATS 201 ATS 341 GEOG 323 SUS 103	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
<b>Land Science</b> Soil Science Environmental Earth Science Planet Earth Physical Geology Earth Systems Science Global Change and Earth Sciences Surface Processes Dynamic Planet Soil Science & Lab	G 201 G 202 G 203  ENV 235	CSS 205 ENSC 210 GEO 101 GEO 201 GEO 202 GEO 308 GEO 322 GEOG 102 SOIL 205 & 206	Available online at OSU Available online at OSU Available online at OSU Available online at OSU  Available online at OSU  Available online at OSU
<b>Water Science</b> SWOCC Course: Watershed Processes Watershed Processes Forest Watershed Management Environmental Hydrogeology Intro to Water Science and Policy Hydrology for Water Resource Mgmt Oceanography Intro to Biological Oceanography Coastal Oceanography	NR 260  GS 108	NR LDT FE 430 FE 434 GEO 387 GEOG 340 GEOG 424 OC 201 OC 202 OC 332	Available online at OSU  Available online at OSU Available online at OSU  Available online at OSU Available online at OSU
<b>Ecology</b> Ecology for Engineers Marine Ecology General Ecology Plant Ecology Tropical Ecology and Conservation Forest Ecology Wildlife Ecology Intro to Wildland Ecology		BEE 270 BI 351 BI 370 BOT 341 ENSC 341 FES 341 FW 481 RNG 121	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
<b>Mathematics</b> Elementary Functions Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science Differential Calculus	MTH 112Z MTH 241  MTH 251Z	MTH 112Z MTH 241 MTH 245 MTH 251Z	Available online at OSU Available online at OSU Available online at OSU Available online at OSU

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<b>NR Major Requirements</b>	<b>SWOCC Course</b>	<b>OSU Course</b>	<b>Notes</b>
<i>Complete one course per category</i>			
<b>Terrestrial Ecosystems</b>			
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 445	Available online at OSU
Biodiversity Conservation in Managed Forests		FES 452	Available online at OSU
Intro to Forestry	F 111	FOR 111	Available online at OSU
Topics in Wildland Fire	F 246	FOR 346	Available online at OSU
Silviculture Principles		FOR 441	Available online at OSU
Intro to Wildland Ecology		RNG 121	Available online at OSU
Rangeland Ecology and Management		RNG 341	Available online at OSU
Ecology of Grassland Ecosystems		RNG 351	Available online at OSU
Ecology of Shrubland Ecosystems		RNG 352	
Rangeland Restoration and Ecology		RNG 421	Available online at OSU
Vegetation Monitoring and Analysis		RNG 441	Available online at OSU
Rangeland-Animal Relations		RNG 442	
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	
<b>Environ. Assessment &amp; Planning</b>			
Agriculture & Environmental Predicaments		CROP/SOIL/SUS 325	
Ecological Restoration		FES 445	Available online at OSU
Urban Forestry Planning, Policy, and Mgmt		FES/HORT 455	Available online at OSU
Ecosystems Services		FW 462	Available online at OSU
Land Use Planning for Sust. Communities		GEOG 250	Available online at OSU
Planning Principles for Resilient Communities		GEOG 451	Available online at OSU
Sustainable Site Planning		GEOG 452	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	Available online at OSU
Wildland restoration and Ecology		RNG 421	Available online at OSU
Habitat Analysis I		RNG 457	Available online at OSU
Rangeland Management and Planning		RNG 491	Available online at OSU
Sustainability Assessment		SUS 304	Available online at OSU
Sustainable Communities		SUS 350	Available online at OSU
Planning for Sustainable Recreation		TRAL 456	Available online at OSU
Planning for Sustainable Tourism		TRAL 457	Available online at OSU
Evaluating Sus through Life Cycle Analysis		WSE 385	Available online at OSU
<b>Difference/Power/Oppression Advanced</b>			
Indigenous Agriculture and Subsistence		AG 311	Available online at OSU
Anthro of Difference, Power, and Oppression		ANTH 411	
Environmental Justice		ENSC/GEOG 333	Available online at OSU
Power and Justice in US Nat Res Management		FW 340	Available online at OSU
Sustainability, Justice, and Engagement		SUS 331	Available online at OSU
<b>Nat Resource Politics &amp; Policy (choose 2)</b>			
Environmental Law		AEC 432	Available online at OSU
Contemporary Native Issues		ANTH 472	Available online at OSU
Plagues, Pests, and Politics		ENT 300/HORT 330	Available online at OSU
Native American Law: Tribes, Treaties & US		ES 444	Available online at OSU
Forest Policy & Regulation		FE/FOR 463	
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy & Regulation		FOR 461	
Endangered Species, Soc, and Sustainability		FW 350	Available online at OSU
Fish & Wildlife Law and Policy		FW 415	Available online at OSU
Introduction to Ocean Law		FW 422	
Conflict, Cooperation, and Control of Water		GEOG 440	
The World's Water		GEOG 441	Available online at OSU
Public Policy Problems		PPOL/PS 371	Available online at OSU
Policy and Law of US Coastal Governance		PPOL 446	Available online at OSU
Integrated Policy: Food, Energy, Water, Clim		PPOL 447	Available online at OSU
Marine Policy in the United States		PPOL 448	Available online at OSU
The Politics of Climate Change		PS 455	
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

<b>NR Major Requirements</b>	<b>SWOCC Course</b>	<b>OSU Course</b>	<b>Notes</b>
<i>Complete one course per category</i>			
<b>Economics</b>			
Intro to Environmental Economics & Policy Intro to Microeconomics	ECON 201Z	AEC 250 ECON 201Z	Available online at OSU Available online at OSU
<b>Social &amp; Ethical Issues</b>			
Environmental Law, Politics & Policy		AEC 253	Available online at OSU
Indigenous Ecosystem Science		AG 201	Available online at OSU
Anthropology, Health, and 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	Available online at OSU
Human Impacts on Ecosystems		BOT 301	
Issues in Natural Resource Conservation		FES 365	Available online at OSU
Food From the Sea		FW 324	Available online at OSU
Global Crises in Resource Ecology		FW 325	Available online at OSU
Minerals, Energy, Water, and Environment		GEO 306	Available online at OSU
National Park Geology and Preservation		GEO 307	Available online at OSU
Climate Justice		GEOG 100	Available online at OSU
Human-Environment Geog in Anthropocene		GEOG 203	Available online at OSU
Human Dimensions of Climate Change		GEOG 240	Available online at OSU
Transforming Environmental Conflicts		GEOG 241	Available online at OSU
Urban Aqua Networks: Ancient to Modern		GEOG 242	
Sustainability for the Common Good		GEOG 300	Available online at OSU
Resilience-Based Natural Resource Mgmt		GEOG 430	Available online at OSU
Environmental History of the U.S.		HST 481	Available online at OSU
Humans and the Ocean		MAST 201	Available online at OSU
Society, Culture and the Marine Environment		MAST 300	
Critical Thinking for NR Challenges		NR 312	
Nature in Literature Over the Centuries		NR 380	Available online at OSU
Oceans, Coasts & People		OC 203	Available online at OSU
Environmental Ethics		PHL 440	
World Views and Environmental Values		PHL/REL 443	
Native American Philosophies		PHL/REL 448	Available online at OSU
Energy, Climate, and Society		PPOL 441/SOC 482	Available online at OSU
Intro to Environment and Society		SOC 280	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	Available online at OSU
Nature, Eco, and Adventure Tourism		TRAL 353	Available online at OSU
Communities, Natural Areas, and Tourism		TRAL 354	Available online at OSU
Parks & Protected Areas		TRAL 357	Available online at OSU
Women and Natural Resources		WGSS 440	Available online at OSU
<b>Spatial Analysis</b>			
Precision Agriculture		CROP/HORT 414	Available online at OSU
GIS and Forest Engineering Applications		FE 257	Available online at OSU
Survey of Geographic Information Systems		FW 303	Available online at OSU
Foundations of Geospatial Science & GIS	GEOG 265	GEOG 201	Available online at OSU
Geoscience I: GIS and Theory		GEOG 360	Available online at OSU

## Courses Required for Natural Resource Education Option

<b>Requirement</b> <i>Complete one course per category unless otherwise noted</i>	<b>SWOCC Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Measurements</b>			
Research Methods in Social Science		FES 422	Available online at OSU
Introduction to Forestry	F 111	FOR 111	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Principles of Fish & Wildlife Conservation		FW 251	Available online at OSU
Environmental Interpretation		TRAL 493	Available online at OSU
Purp, Struct, and Function of Ed in Democracy		ED 216	Available online at OSU
Civil Rights and Multicult. Issues in Education	ED 258	ED 219	Available online at OSU
Learning Across the Lifespan		ED 253	Available online at OSU
Forest as Classroom		FES 430	Available online at OSU
Inquiry in Science and Science Education		SED 413	Available online at OSU
<b>Electives – choose at least 10 credits</b>			
Intro to Agricultural Education		AEC 235	Available online at OSU
Planning and Delivering Non-Formal Ag Ed		AEC 325	
Intro to Adult Learning		AHE 440	Available online at OSU
Instructional Methods for Adult Learning		AHE 445	
Purp, Struct, and Function of Ed in Democracy	ED 258	ED 216	Available online at OSU
Civil Rights and Multicult. Issues in Education		ED 219	Available online at OSU
Field Practicum		ED 309	Available online at OSU
Trauma Informed Care in Education		ED 325	
Educational Psychology, Learning and Develop		ED 411	Available online at OSU
Learning Styles and Needs in Adolescence		ED 412	Available online at OSU
Classroom Management		ED 420	Available online at OSU
Strategies for Teaching Wellness and Fine Art		ED 458	Available online at OSU
Foundations of ESOL Education		ED 472	Available online at OSU
Intro to Marine Biology	BI 142 subs	BI 150	
Human Impacts on Ecosystems		BI 301	
Biodiv Conservation in Managed Forests		FES/FW 452	Available online at OSU
Biology and Conservation of Marine Mammals		FW 302	Available online at OSU
Food from the Sea		FW 324	Available online at OSU
Coastal Ecology and Resource Management		FW 426	Available online at OSU
Herpetofauna Conservation & Management		FW 448	Available online at OSU
Avian Conservation and Management		FW 451	Available online at OSU
Mammal Conservation and Management		FW 458	Available online at OSU
Marine Conservation Biology		FW 464	
Earth Systems Science	G 202	GEO 202	
Evolution of Planet Earth	G 203	GEO 203	
National Park Geology and Preservation		GEO 307	Available online at OSU
Multicultural Leadership		LEAD 252	Available online at OSU
Team & Organizational Leadership		LEAD 262	
Foundations of Adventure Leadership		LEAD 430	
Backcountry Leadership		LEAD 432	Available online at OSU
Nature in Storytelling Over the Centuries		NR 380	Available online at OSU
Sustainable Living: Practices and Policies		PS 374	Available online at OSU
Rangeland Ecology and Management		RNG 341	Available online at OSU
Wildland Restoration and Ecology		RNG 421	Available online at OSU
Riparian Ecohydrology and Management		RNG 455	Available online at OSU
Inclusion & Belonging in Outdoor Recreation		TRAL 242	
Recreation Resource Management	F 251	TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	Available online at OSU
Parks & Protected Areas Management		TRAL 357	Available online at OSU
Biodiv: Causes, Consequences, Conservation		Z 349	Available online at OSU

## General Education Courses (called Core Education)

- Complete one course in each category.
- Full listing of SWOCC courses that fulfill Core Ed requirements: [admissions.oregonstate.edu/core-education-course-articulations-southwestern-oregon-community-college](https://admissions.oregonstate.edu/core-education-course-articulations-southwestern-oregon-community-college)

FOUNDATIONAL CORE	Writing Foundations	WR 121Z required
	Arts & Humanities: General	
	Arts & Humanities: Global	
	Quantitative Literacy & Analysis	Fulfilled by major: MTH 112Z, MTH 241, or STAT 243Z
	Communication, Media & Society	
	Social Science	Fulfilled by major: ECON 201Z
	Scientific Inquiry & Analysis	Fulfilled by major: Biology
	Scientific Inquiry & Analysis	Fulfilled by major: CHEM 221Z & 227Z
SIGNATURE CORE	Difference, Power, Oppression Foundations	
	Transitions	
	Beyond OSU I: Prepare	Fulfilled by major: NR 201
	Beyond OSU II: Engage	Fulfilled by major: NR 455
	Difference, Power, Oppression Advanced	Fulfilled by major: AG 311, ENSC/GEOG 333, SUS 331
	Seeking Solutions	<i>Cannot be fulfilled by a major requirement</i>
	Writing Elevation	
	Writing Intensive Course	Fulfilled by major: SUS 325, ENSC 321, FES 486, FOR 463, or WR 462

## 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](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

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