TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

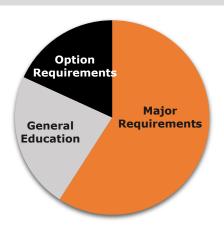
Portland Community College

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: <u>forestry.oregonstate.edu/undergraduate-</u> programs/natural-resources/natural-resource-education

Courses Required for Natural Resources Major

NR Major Requirements Complete one course per category	PCC Course	OSU Course	Notes
Managing Nat Res for the Future	ESR 204	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
Advanced Communication			
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 215	COMM 222	
Intercultural Communication	COMM 140	COMM 226	Available online at OSU
Communication in Organizations		COMM 324	
Non-Verbal Communication	COMM 227	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	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



NR Major Requirements Complete one course per category	PCC Course	OSU Course	Notes
Writing Intensive Course Ag and Environmental Predicaments Environmental Case Studies Public Lands Policy and Management Forest Policy and Regulation Aquaculture		CROP/SOIL/SUS 325 ENSC 321 FES 486 FE/FOR 463 FW 497	Available online at OSU Available online at OSU
Climatology Research Methods Rangeland Management and Planning World Soil Resources Environmental Writing Biology I		GEOG 323 PS 300 RNG 491 SOIL 395 WR 462	Available online at OSU
Env Bio: Ecology, Cons., Global Change Introductory Biology I Principles of Biology: Cells	BI 103 BI 221Z	BI 101 BI 204 BI 221Z	Available online at OSU Available online at OSU
Biology II 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
Biology III Human Bio: Anatomy, Phys, and Disease Introductory Biology III Principles of Biology: Ecology & Evolution	BI 101 BI 223Z	BI 103 BI 206 BI 223Z	Available online at OSU Available online at OSU
Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab	CH 221Z & 227Z	CH 121 CH 221Z & 227Z	Available online at OSU Available online at OSU
Climate Science PCC Course: Climate Change & Human Syst. Climate Science Snow, Smoke and Storms: Climate in PNW Climatology Intro to Climate Change	G 209 G 184	GEO 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
Land Science 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	CSS 205 ENSC 210 GEO 101 GEO 201 GEO 202 GEO 308 GEO 322 GEOG 102 SOIL 205 & 206	Available online at OSU
Water Science 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	GS 108	FE 430 FE 434 GEO 387 GEOG 340 GEOG 424 OC 201 OC 202 OC 332	Available online at OSU
Ecology 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
Mathematics Elementary Functions Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science Differential Calculus	MTH 112Z MTH 241 MTH 245 MTH 251Z	MTH 112Z MTH 241 MTH 251Z	Available online at OSU Available online at OSU Available online at OSU Available online at OSU

NR Major Requirements			
Complete one course per category	PCC Course	OSU Course	Notes
Statistics			
Elementary Statistics I	STAT 243Z	ST 243Z	Available online at OSU
Intro to Statistical Methods	317(12132	ST 351	Available online at OSU
Animal Science		31 331	7.tvanable omine at 656
PCC Course: Bird ID & Ecology	BI 164	BI LDT	
Forest Entomology	B1 104	FES 412	
		FOR 210	Available online at OSU
Terrestrial Vertebrate ID and Nat History	BI 145		Available online at OSU
Principles of Fish & Wildlife Conservation	BI 145	FW 251	
Bio and Conservation of Marine Mammals		FW 302	Available online at OSU
Ornithology		FW 311	Available online at OSU
Systematics of Birds		FW 312	Available online at OSU
Ichthyology		FW 315	Available online at OSU
Systematics of Fishes		FW 316	Available online at OSU
Mammalogy		FW 317	Available online at OSU
Systematics of Mammals		FW 318	Available online at OSU
Introductory Population Dynamics		FW 320	Available online at OSU
Applied Community and Ecosystem Ecology		FW 321	Available online at OSU
Ecology of Marine and Estuarine Birds		FW 331	Available online at OSU
Herpetofauna Conservation and Management		FW 448	Available online at OSU
Avian Conservation and Management		FW 451	Available online at OSU
Fishery Biology		FW 454	Available online at OSU
Mammal Conservation and Management		FW 458	Available online at OSU
Marine Conservation Biology		FW 464	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Animal Behavior		Z 350	Available online at OSU
Biology of Insects		Z 365	Available online at OSU
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 477	
Plant Science			
PCC Course: General Botany	BI 202	BOT LDT	
Botany: A Human Concern		BOT 101	
Intro to Plant Biology		BOT 220	Available online at OSU
Plant Systematics		BOT 321	Available online at OSU
Forest Pathology		BOT/FOR 413	
Aquatic Botany		BOT 416	
Flora of the Pacific Northwest		BOT 425	
Mycology		BOT 461	Available online at OSU
Forest Biology	BI 141	FES 240	Available online at OSU
Dendrology		FES 241	Available online at OSU
Landscape Plant Mat I: Decid & Coniferous	HOR 226	HORT 226	Available online at OSU
Landscape Plant Mat II: Shrubs	HOR 228	HORT 228	Available online at OSU
Wildland Plant Identification		RNG 353	Available online at OSU
Aquatic Ecosystems			
PCC Course: Marine Biology	BI 142	BI LDT	
PCC Course: Freshwater Biology	BI 143	BI LDT	
Intro to Marine Biology		BI 150	
Oceans in Peril		BI 347	
Marine Ecology		BI 351	Available online at OSU
Mgmt Principles of Pacific Salmon in NW		FW 323	Available online at OSU
Integrated Watershed Management		FW 326	Available online at OSU
Coastal Ecology and Resource Management		FW 426	Available offillite at 050
Estuarine Ecology		FW/OC 434	
Freshwater Ecology and Conservation		FW 456	Available online at OSU
Fish Ecology		FW 456	Available online at OSU
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Wetlands and Riparian Ecology		FW 479	Available online at OSU
Hydrology for Water Resource Management		GEOG 424	Aveilable artire at OCU
Riparian Ecohydrology and Management	1	RNG 455	Available online at OSU

NR Major Requirements	PCC Course	OSU Course	Notes
Complete one course per category	PCC Course	OSO Course	Notes
Terrestrial Ecosystems			
Forest Biology	BI 141	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		FOR 111	Available online at OSU
Topics in Wildland Fire		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
		RNG 341	Available online at OSU
Ecology of Grassland Ecosystems			Available offillite at 050
Ecology of Shrubland Ecosystems		RNG 352	A
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	
Environ. Assessment & Planning			
PCC Course: Intro to Env Systems	ESR 200	ENSC LDT	
PCC Course: Applied Env Studies, Problems	ESR 202	ENSC LDT	
Agriculture & Environmental Predicaments		CROP/SOIL/SUS 325	
Ecological Restoration		FES 445	Available online at OSU
Urban Forestry Plannin, 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
Sustainability Assessment Sustainable Communities		SUS 350	Available online at OSU
			Available online at OSU
Planning for Sustainable Recreation		TRAL 456	
Planning for Sustainable Tourism		TRAL 457	Available online at OSU
Evaluating Sus through Life Cycle Analysis		WSE 385	Available online at OSU
Difference/Power/Oppression Advanced		40.244	A
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
Economics			
Intro to Environmental Economics & Policy		AEC 250	Available online at OSU
Intro to Microeconomics	EC 201Z	ECON 201Z	Available online at OSU
Spatial Analysis			
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	GEO 170	GEOG 201	Available online at OSU
Geoscience I: GIS and Theory	GEO 265	GEOG 360	Available online at OSU
Geogeterice 1. G15 und THEOLY	J GLO 203	0200 300	Available offille at 050

NR Major Requirements	PCC Course	OSU Course	Notes
Complete one course per category Social & Ethical Issues			
	G 147	GEO LDT	
PCC Course: Geography of National Parks PCC Course: Intro to Environmental Ethics	PHL 206	PHL LDT	
	PHL 200	AEC 253	Available online at OSU
Environmental Law, Politics & Policy		AG 201	Available online at OSU
Indigenous Ecosystem Science Anthropology, Health, and Environment		ANTH 352	Available online at OSU
			Available online at OSU
Ecological Anthropology		ANTH 477	
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	Aveilable enline at OCH
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
Fransforming Environmental Conflicts		GEOG 241	Available online at OSU
Urban Aqua Networks: Ancient to Modern		GEOG 242	A .: 15.1.1
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		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

Courses Required for Natural Resource Education Option

Requirement			
Complete one course per category unless	PCC Course	OSU Course	Notes
otherwise noted Measurements			
Research Methods in Social Science		FES 422	Available online at OSU
Introduction to Forestry		FOR 111	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Principles of Fish & Wildlife Conservation	BI 145	FW 251	Available online at OSU
Environmental Interpretation	BI 143	TRAL 493	Available online at OSU
Purp, Struct, and Function of Ed in Democracy		ED 216	Available online at OSU
Civil Rights and Multlicult. Issues in Education	FD 259	ED 210	Available online at OSU
Learning Across the Lifespan	25 237	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
Electives – choose at least 10 credits		325 113	7 (Valiable offine at 050
PCC Course: Outdoor School Leadership	ED 208	FOR LDT	
Intro to Agricultural Education	25 200	AED 235	Available online at OSU
Planning and Delivering Non-Formal Ag Ed		AEC 325	Available offine at 656
Intro to Adult Learning		AHE 440	Available online at OSU
Instructional Methods for Adult Learning		AHE 445	/tvaliable offilite at 555
Purp, Struct, and Function of Ed in Democracy		ED 216	Available online at OSU
Civil Rights and Multlicult. Issues in Education		ED 219	Available online at OSU
Field Practicum	ED 259	ED 309	Available online at OSU
Trauma Informed Care in Education		ED 325	, transcis simile at 555
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 150	
Human Impacts on Ecosystems	BI 142	BI 301	
Biodiv Convservation 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		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	Aveilable enline at OCL
Recreation Resource Management		TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	Available online at OSU Available online at OSU
Parks & Protected Areas Management		TRAL 357	
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 PCC courses that fulfill Core Ed requirements: <u>admissions.oregonstate.edu/course-articulations-portland-</u>

community-college

	Writing Foundations	WR 121Z required
	Arts & Humanities: General	
	Arts & Humanities: Global	
FOUNDATIONAL	Quantitative Literacy & Analysis	Fulfilled by major: MTH 112Z, MTH 241, or STAT 243Z
CORE	Communication, Media & Society	
CORE	Social Science	Fulfilled by major: EC 201Z
	Scientific Inquiry & Analysis	Fulfilled by major: Biology
	Scientific Inquiry & Analysis	Fulfilled by major: Chemistry
	Difference, Power, Oppression Foundations	
	Transitions	
	Beyond OSU I: Prepare	Fulfilled by major: NR 201
	Beyond OSU II: Engage	Fulfilled by major: NR 455
SIGNATURE CORE	Difference, Power, Oppression Advanced	Fulfilled by major: AG 311, ENSC/GEOG 333, SUS 331
SIGNATURE CORE	Seeking Solutions	Cannot be fulfilled by a major requirement
	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 <u>visitosu.oregonstate.edu/visit-campus</u> to schedule your personalized visit.

Portland Community College	General Academic Advising 971-722-8888 Option 1 advising@pcc.edu
	Forestry Student Services
OSU College of Forestry Student Services	541-737-1594
	forestrystudentservices@oregonstate.edu