TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:
CORVALLIS

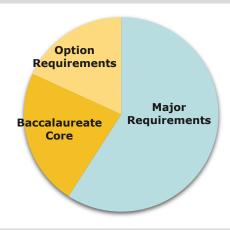
Chemeketa Community College

Natural Resources Major with Forest Ecosystems Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Students will understand the nature of forest ecosystems and the process by which they function.

Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

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 at forestry.oregonstate.edu/undergraduateprograms/natural-resources/forest-ecosystems

Courses Required for Natural Resources Major

NR Core Requirements Complete one course per category	Chemeketa Course	OSU Course	Notes
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future		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:			
Communication in Global Agriculture		AG 351	Available online at OSU
Intro to Communication Theory		COMM 321	
Small Group Problem Solving		COMM 322	
Communication in Organizations		COMM 324	
Intercultural Communication		COMM 326	
Non-Verbal Communication		COMM 328	Available online at OSU
Communication and Culture in Cyberspace		COMM 385	Available online at OSU
Theories of Conflict and Conflict Management		COMM 440	
Bargaining and Negotiating Processes		COMM 442	
Forest as Classroom		FES 430	Available online at OSU
Effective Comm of Environmental Change Sci		GEOG 453	
Critical thinking for NR Challenges		NR 312	
Environmental Interpretation		TRAL 493	Available online at OSU
Science Writing		WR 362	Available online at OSU
Environmental Writing		WR 462	
Biology I			
Introduction to Biology I		BI 204	Available online at OSU
Principles of Biology: Cells	BI 212	BI 221	



NR Core Requirements (continued)	Chemeketa Course	OSU Course	Notes
Complete one course per category	Chemeketa Course	030 Course	Notes
Biology II			
Introduction to Biology II		BI 205	Available online at OSU
Principles of Biology: Organisms	BI 211	BI 222	
Biology III			
Introduction to Biology III		BI 206	Available online at OSU
Principles of Biology: Populations	BI 213	BI 223	
Chemistry			
General Chemistry I with Lab	CH 121	CH 121	Available online at OSU
General Chemistry (Majors) I with Lab		CH 231 & 261	Available online at OSU
Climate Science			
Climate Science		ATS 201	Available online at OSU
Global Change Biology		FW 345	/
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Soil Science		303 103	Available offinite at 656
Soil Science		CSS 205	Available online at OSU
Soil Science with Lab	SOIL 205	SOIL 205 & 206	Available offille at 030
	301L 203		
Soil Science with Forest Soils Lab		SOIL 205 & FOR 206	
Ecology Marine Feelers		DI 251	Aveilable online at OCH
Marine Ecology		BI 351	Available online at OSU
General Ecology		BI 370	Available online at OSU
Plant Ecology		BOT 341	Available online at OSU
Mathematics			
Elementary Functions	MTH 112Z	MTH 112Z	Available online at OSU
Calculus for Mgmt, Life, and Social Science	MTH 241	MTH 241	Available online at OSU
Math for Mgmt, Life, and Social Science		MTH 245	Available online at OSU
Differential Calculus	MTH 251	MTH 251	Available online at OSU
Statistics			
Principles of Statistics	STAT 243Z	ST 243Z	Available online at OSU
Intro to Statistical Methods		ST 351	Available online at OSU
Animal ID			
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		FW 318	Available online at OSU
Biology of Insects		Z 365	Available offille at 050
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 473	Available offille at 030
Environ. Assessment & Planning	+	<u> </u>	
		CBOD/SOT! /SUS 335	
Agriculture & Environmental Predicaments		CROP/SOIL/SUS 325	Aveilable online at OCU
Ecological Restoration		FES/FW 445	Available online at OSU
Ecosystems Services		FW 462	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		GEOG 452	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 490	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	
Planning for Sustainable Tourism		TRAL 457	
Scientific Methods for Analyzing NR Problems		NR 325	Available online at OSU
Scientific Fictious for Analyzing file Froblettis	1	1410 323	Available offille at 050

NR Core Requirements (continued) Complete one course per category	Chemeketa Course	OSU Course	Notes
Fish & Marine Sciences			
Intro to Marine Biology	BI 143	BI 150	
Biology of Marine Mammals	22 2 .0	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
Fish Ecology		FW 473	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Oceanography	GS 143	OC 201	Available online at OSU
Coastal Oceanography	G3 143	OC 332	Available offille at 030
Forestry		00 332	
International Forestry		FE/FOR 456	
		FES 240	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Forest Types of the Northwest			
Urban Forestry		FES/HORT 350	Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Agroforestry		FES/NR 477	Available anims st OCL
Topics in Wildland Fire		FOR 346	Available online at OSU
Land & Water		EE 430	Available online at OCL
Watershed Processes		FE 430	Available online at OSU
Forest Watershed Management		FE 434	Available action at OCU
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	
International Water Resource Management		GEOG 441	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			
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 352	Available online at OSU
Wildland Restoration and Ecology		RNG 421	Available online at OSU
Rangeland Analysis		RNG 441	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	
Mycology		BOT 461	Available online at OSU
Dendrology		FES 241	Available online at OSU
Landscape Plant Materials I: Decid & Conifers	HOR 226	HORT 226	Available online at OSU
Landscape Plant Materials II: Shrubs	HOR 228	HORT 228	Available online at OSU
Wildland Plant Identification		RNG 353	Available online at OSU
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 451	Available online at OSU
Mammal Conservation and Management		FW 458	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Animal Behavior		Z 350	Available online at OSU
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NR Core Requirements (continued) Complete one course per category	Chemeketa Course	OSU Course	Notes
Ethics & Philosophy			
Ecosystems Science of the PNW Indians Anthropology, Health, and the Environment Ecological Anthropology Natural Resources and Community Values Anthropology of International Development		AG 301 ANTH 352 ANTH 477 ANTH 481 ANTH 482	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Multicultural Perspectives in NR Transforming Environmental Conflicts Environmental Justice Environmental History of the United States Critical Thinking for NR Challenges		FW 340 GEOG 241 GEOG 330 HST 481 NR 312	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Nature in Storytelling over the Centuries Environmental Ethics World View and Environmental Values Sustainability, Justice & Engagement Natural Resource Policy		NR 380 PHL 440 PHL/REL 443 SUS 331	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Environmental Law Public Lands Policy & Management Forest Policy Forest Policy Analysis Fish & Wildlife Law and Policy		AEC 432 FES 486 FOR 460 FOR 461 FW 415	Available online at OSU Available online at OSU Available online at OSU
Introduction to Ocean Law U.S. Energy Policy Environmental Politics and Policy International Environmental Politics & Policy Political Issues		FW 422 PS 473 PS 475 PS 477	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Plagues, Pests, and Politics Endangered Spec, Society and Sustainability When Science Escapes the Lab The Politics of Climate Change Environmental Politics and Policy		ENT/HORT 300 FW 350 NR 351 PS 455 PS 475	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Science and Politics International Environmental Politics & Policy Wilderness Management Economics		PS 476 PS 477 TRAL 352	Available online at OSU Available online at OSU Available online at OSU
Intro to Environmental Economics & Policy Intro to Microeconomics Social Issues	EC 201	AEC 250 ECON 201	Available online at OSU Available online at OSU
Human Impacts on Ecosystems Human Ecology Issues in Natural Resource Conservation Global Crises in Resource Ecology Sustainability for the Common Good Climate Change, Water and Society Transforming Environmental Conflicts Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab		BI 301 BI 348 FES 365 FW 325 GEOG 300 GEOG 240 GEOG 241 GEOG 430 GEOG 431 NR 351	Available online at OSU Available online at OSU Available online at OSU
Oceans, Coasts & People Social Dimensions of Sustainability Rural Sociology Environmental Sociology Society and Natural Resources Social Dimensions of Sustainability		OC 333 SOC 381 SOC 475 SOC 480 SOC 481 SUS 420	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Recreation Resource Management Outdoor Recreation on Public Lands Wilderness Management Nature, Eco, and Adventure Tourism Communities, Natural Areas, and Tourism		TRAL 251 TRAL 351 TRAL 352 TRAL 353 TRAL 354	Available online at OSU Available online at OSU
Parks & Protected Areas Women and Natural Resources		TRAL 357 WGSS 440	Available online at OSU Available online at OSU

NR Core Requirements (continued) Complete one course per category	Chemeketa Course	OSU Course	Notes
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		GEOG 201	Available online at OSU
Geoscience I: GIS and Theory		GEOG 360	Available online at OSU

Courses Required for Forest Ecosystems Option

Complete one course per category unless otherwise noted	OSU Course	Notes
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Measurements		
Field Methods in Ecological Restoration	BI 375	
	BOT 440	Available online at OSU
	FOR 321	
Forest Ecology F	FES 341	Available online at OSU
	FES 412	
	FES 440	Available online at OSU
	FES/FW 452	Available online at OSU
	FOR 413	
	FOR 436	Available online at OSU
	FOR 441	
Ecology Breath – choose two classes		
	BOT 321	
,	BOT 341	Available online at OSU
	BOT 425	,
	FE 434	
	FES/FW 445	Available online at OSU
	FES/NR 477	
J ,	FW 251	Available online at OSU
	FW 311	Available online at OSU
3,	FW 315	Available online at OSU
	FW 317	Available online at OSU
	FW 320	Available online at OSU
Applied Community and Ecosystem Ecology F	FW 321	Available online at OSU
Avian Conservation and Management F	FW 451	Available online at OSU
Freshwater Ecology and Conservation F	FW 456	Available online at OSU
Mammal Conservation and Management F	FW 458	Available online at OSU
Fish Ecology F	FW 473	Available online at OSU
	FW 481	Available online at OSU
	NR 325	
. 5	RNG 351	Available online at OSU
	RNG 352	Available online at OSU
7	RNG 455	Available online at OSU
	SOIL 366	Available online at OSU
	SOIL 388	Available online at OSU
37	SOIL 466	Available online at OSU
	Z 349	Available online at OSU
	Z 473	Available online at OSU
Technical Electives		
	FE 208	Available online at OSU
	FE 209	A - : - - - - - - - - - - - - -
5 1 5 FF 11 1 5 FF	FE 257	Available online at OSU
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FE 370 FE 444	
	FE 444 FES 447	Available online at OCH
	GEOG 201	Available online at OSU Available online at OSU
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	ST 352	Available online at OSU

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 Chemeketa courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-chemeketa-community-college</u>

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 112Z or higher WR 121Z. Required to transfer. Can be completed as part of major: see advisor Choose one course from Bacc Core link above HPE 295 @ Chemeketa
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: Biology I Completed as part of major: Chemistry Completed as part of major: Biology II Choose one course from Bacc Core link above Choose one course from Bacc Core link above Completed as part of major: EC 201 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 <u>visitosu.oregonstate.edu/visit-campus</u> to schedule your personalized visit.

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