

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

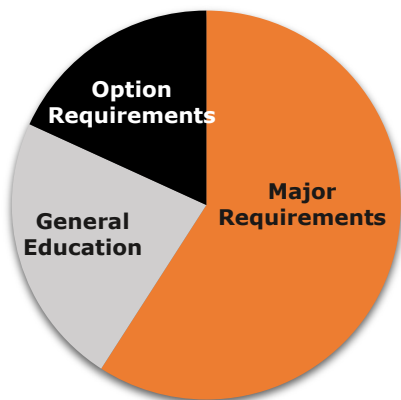
**Chemeketa
Community College**

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

Courses Required for Natural Resources Major

NR Major Requirements	Chemeketa Course	OSU Course	Notes
<i>Complete one course per category</i>			
Managing Nat Res for the Future		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 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

NR Major Requirements <i>Complete one course per category</i>	Chemeketa Course	OSU Course	Notes
Writing Intensive Course 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
Biology I 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
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 103 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 121 CH 221Z & 227Z	CH 121 CH 221Z & 227Z	Available online at OSU Available online at OSU
Climate Science Climate Science Snow, Smoke and Storms: Climate in PNW Climatology Intro to Climate Change		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	 GEO 201 GEO 202 GEO 203 SOIL 205	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
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 Available online at OSU Available online at OSU Available online at OSU 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 Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU 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 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

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

NR Major Requirements <i>Complete one course per category</i>	Chemeketa Course	OSU Course	Notes
Terrestrial Ecosystems Forest Biology Forest Ecology Forest Types of the Northwest Urban Forestry Wildland Fire Ecology Ecological Restoration Biodiversity Conservation in Managed Forests Intro to Forestry Topics in Wildland Fire Silviculture Principles Intro to Wildland Ecology Rangeland Ecology and Management Ecology of Grassland Ecosystems Ecology of Shrubland Ecosystems Rangeland Restoration and Ecology Vegetation Monitoring and Analysis Rangeland-Animal Relations Ecosystems of Wildland Soils Soil Systems and Plant Growth World Soil Resources Soil Morphology and Classification		FES 240 FES 341 FES 342 FES/HORT 350 FES 440 FES 445 FES 452 FOR 111 FOR 346 FOR 441 RNG 121 RNG 341 RNG 351 RNG 352 RNG 421 RNG 441 RNG 442 SOIL 366 SOIL 388 SOIL 395 SOIL 466	Available online at OSU Available online at OSU
Environ. Assessment & Planning Agriculture & Environmental Predicaments Ecological Restoration Urban Forestry Plannin, Policy, and Mgmt Ecosystems Services Land Use Planning for Sust. Communities Planning Principles for Resilient Communities Sustainable Site Planning Scientific Methods for Analyzing NR Problems Wildland restoration and Ecology Habitat Analysis I Rangeland Management and Planning Sustainability Assessment Sustainable Communities Planning for Sustainable Recreation Planning for Sustainable Tourism Evaluating Sus through Life Cycle Analysis		CROP/SOIL/SUS 325 FES 445 FES/HORT 455 FW 462 GEOG 250 GEOG 451 GEOG 452 NR 325 RNG 421 RNG 457 RNG 491 SUS 304 SUS 350 TRAL 456 TRAL 457 WSE 385	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 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 Available online at OSU Available online at OSU
Difference/Power/Oppression Advanced Indigenous Agriculture and Subsistence Anthro of Difference, Power, and Oppression Environmental Justice Power and Justice in US Nat Res Management Sustainability, Justice, and Engagement		AG 311 ANTH 411 ENSC/GEOG 333 FW 340 SUS 331	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Nat Resource Politics & Policy (choose 2) Environmental Law Contemporary Native Issues Plagues, Pests, and Politics Native American Law: Tribes, Treaties & US Forest Policy & Regulation Public Lands Policy & Management Forest Policy & Regulation Endangered Species, Soc, and Sustainability Fish & Wildlife Law and Policy Introduction to Ocean Law Conflict, Cooperation, and Control of Water The World's Water Public Policy Problems Policy and Law of US Coastal Governance Integrated Policy: Food, Energy, Water, Clim Marine Policy in the United States The Politics of Climate Change U.S. Energy Policy Environmental Politics and Policy International Environmental Politics & Policy		AEC 432 ANTH 472 ENT 300/HORT 330 ES 444 FE/FOR 463 FES 486 FOR 461 FW 350 FW 415 FW 422 GEOG 440 GEOG 441 PPOL/PS 371 PPOL 446 PPOL 447 PPOL 448 PS 455 PS 473 PS 475 PS 477	Available online at OSU Available online at OSU

Courses Required for Natural Resource Education Option

Requirement <i>Complete one course per category unless otherwise noted</i>	Chemeketa Course	OSU Course	Notes
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		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 219	Available online at OSU
Learning Across the Lifespan	ED 229	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			
Intro to Agricultural Education		AED 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 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 143	BI 150	
Human Impacts on Ecosystems		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	GEO 202	
Evolution of Planet Earth	GEO 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		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 Chemeketa courses that fulfill Core Ed requirements: admissions.oregonstate.edu/core-education-course-articulations-chemeketa-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: EC 201Z
	Scientific Inquiry & Analysis	Fulfilled by major: Biology
	Scientific Inquiry & Analysis	Fulfilled by major: Chemistry
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 to schedule your personalized visit.

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OSU College of Forestry Student Services Office	541-737-1594 forestrystudentservices@oregonstate.edu