

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

Shasta 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 124 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 Core Requirements	Shasta Course	OSU Course	Notes
<i>Complete one course per category</i>			
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future	AGNR 1	NR 201	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 Effective Comm in Fish & Wildlife Sciences Critical thinking for NR Challenges Technical Writing Science Writing Environmental Writing Professional Writing		COMM 321 COMM 322 COMM 324 COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 FW 489 NR 312 WR 327 WR 362 WR 462 WR 466	Available online at OSU Available online at OSU
Biology I General Biology I with Lab Introduction to Biology I Principles of Biology I with Lab		BI 101 BI 204 BI 211	Available online at OSU

NR Core Requirements (continued)	Shasta Course	OSU Course	Notes
<i>Complete one course per category</i>			

Biology II General Biology II with Lab Introduction to Biology II Principles of Biology II with Lab	BIOL 1	BI 102 BI 205 BI 212	Available online at OSU
Biology III General Biology III with Lab Introduction to Biology III Principles of Biology III with Lab		BI 103 BI 206 BI 213	Available online at OSU
Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab	CHEM 1A	CH 121 CH 231 & 261	Available online at OSU Available online at OSU
Climate Science Climate Science Global Change Biology Climatology Intro to Climate Change		ATS 201 FW 345 GEOG 323 SUS 103	Available online at OSU Available online at OSU Available online at OSU
Earth or Soil Science Soil Science Principles of Soil Science The Solid Earth Physical Geology Earth Systems Science Environmental Geology Physical Geography Soil Science with Lab Soil Science with Forest Soils Lab	ESCI 1 ESCI 17 ESCI 10 GEOG 1A AGPS 24	CSS 205 CSS 305 GEO 101 GEO 201 GEO 202 GEO 221 GEOG 102 SOIL 205 & 206 SOIL 205 & FOR 206	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Ecology Marine Ecology General Ecology Plant Ecology Forest Ecology		BI 351 BI 370 BOT 341 FES 341	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	MATH 2B MATH 9 MATH 9 MATH 3A	MTH 112 MTH 241 MTH 245 MTH 251	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Statistics Principles of Statistics Intro to Statistical Methods	MATH 14	ST 201 ST 351	Available online at OSU Available online at OSU
Animal ID Forest Entomology Systematics of Birds Systematics of Fishes Systematics of Mammals Biology of Insects Herpetology Aquatic Entomology		FES 412 FW 312 FW 316 FW 318 Z 365 Z 473 Z 477	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Environ. Assessment & Planning Ecological Restoration Ecosystems Services Land Use Planning for Sust. Communities Land Use in the American West Planning Principles for Resilient Communities Sustainable Site Planning Wildland restoration and Ecology Rangeland Management and Planning Sustainability Assessment Sustainable Communities Planning for Sustainable Recreation Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems		FES/FW 445 FW 462 GEOG 250 GEOG 450 GEOG 451 GEOG 452 RNG 421 RNG 490 SUS 304 SUS 350 TRAL 456 TRAL 457 NR 325	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 Core Requirements (continued) <i>Complete one course per category</i>	Shasta Course	OSU Course	Notes
Wildlife Management Shasta Course: Wildlife Conservation & Mgmt Introductory Population Dynamics Applied Community and Ecosystem Ecology Wildlife in Agricultural Ecosystems Avian Conservation and Management Biodiversity Conservation in Managed Forests Mammal Conservation and Management Wildlife Ecology Animal Behavior	AGNR 70	FW LDT FW 320 FW 321 FW 435 FW 451 FES/FW 452 FW 458 FW 481 Z 350	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
Ethics & Philosophy Ecosystems Science of the PNW Indians Anthropology, Health, and the Environment Ecological Anthropology Natural Resources and Community Values Anthropology of International Development Multicultural Perspectives in NR Environmental Justice Environmental History of the United States Critical Thinking for NR Challenges Environmental Ethics World View and Environmental Values		AG 301 ANTH 352 ANTH 477 ANTH 481 ANTH 482 FW 340 GEO 309 HST 481 NR 412 PHL 440 PHL/REL 443	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
Natural Resource Policy Shasta Course: Environmental Policy & Law Environmental Law Rural Development Economics & Policy Public Lands Policy & Management Forest Policy Natural Resources Policy and Law Fish & Wildlife Law and Policy Introduction to Ocean Law U.S. Energy Policy Environmental Politics and Policy International Environmental Politics & Policy	AGNR 12	FES LDT AEC 432 AEC 454 FES 486 FOR 460 FOR 462 FW 415 FW 422 PS 473 PS 475 PS 477	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
Political Issues Plagues, Pests, and Politics Natural Resource Policy and Law Endangered Spec, Society and Sustainability When Science Escapes the Lab The Politics of Climate Change Environmental Politics and Policy Science and Politics International Environmental Politics & Policy Wilderness Management		ENT/HORT 300 FOR 462 FW 350 NR 351 PS 455 PS 475 PS 476 PS 477 TRAL 352	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
Resource Economics Natural Resource Economics and Policy Environmental Economics and Policy Rural Development Economics and Policy Forest Resource Economics I		AEC 351 AEC/ECON 352 AEC 454 FOR 329	Available online at OSU Available online at OSU Available online at OSU

NR Core Requirements (continued) <i>Complete one course per category</i>	Shasta Course	OSU Course	Notes
Social Issues Management for Multiple Resource Values Issues in Natural Resource Conservation Global Crises in Resource Ecology Sustainability for the Common Good Climate Change, Water and Society Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab Social Dimensions of Sustainability Rural Sociology Environmental Sociology Society and Natural Resources Social Dimensions of Sustainability Recreation Resource Management Outdoor Recreation on Public Lands Wilderness Management Nature, Eco, and Adventure Tourism Communities, Natural Areas, and Tourism Women and Natural Resources		FES 355 FES 365 FW 325 GEOG 300 GEOG 240 GEOG 430 GEOG 431 NR 351 SOC 381 SOC 475 SOC 480 SOC 481 SUS 420 TRAL 251 TRAL 351 TRAL 352 TRAL 353 TRAL 354 WGSS 440	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
Spatial Analysis Precision Agriculture GIS and Forest Engineering Applications Survey of Geographic Information Systems Foundations of Geospatial Science & GIS Geoscience I: GIS and Theory	GEOG 13	CROP/HORT 414 FE 257 FW 303 GEOG 201 GEOG 360	Available online at OSU Available online at OSU Available online at OSU 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>	Shasta Course	OSU Course	Notes
Measurements			
Forest as Classroom		FES 430	Available online at OSU
Introduction to Forestry	ANGR 55	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 253	Available online at OSU
Technology for Educators		ED 496	Available online at OSU
Inquiry in Science and Science Education		SED 413	Available online at OSU
Electives – choose at least 14 credits			
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
Educational Psychology, Learning and Develop		ED 411	Available online at OSU
Learning Styles and Needs in Adolescence		ED 412	Available online at OSU
Projects		SED 406	Available online at OSU
Tech Found for Teaching Math & Science		SED 412	Available online at OSU
Comm. Ocean Science to Informal Audiences		SED 435	Available online at OSU
Intro to Marine Biology		BI 150	
Human Impacts on Ecosystems		BI 301	
Oceans in Peril		BI 347	Available online at OSU
Human Ecology		BI 348	
Mgmt for Multiple Resource Values		FES 355	Available online at OSU
Biodiv. Conservation in Managed Forests		FES/FW 452	Available online at OSU
Biology and Conservation of Marine Mammals		FW 302	Available online at OSU
Coastal Ecology and Resource Management		FW 426	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	ESCI 17	GEO 202	
Evolution of Planet Earth		GEO 203	
National Park Geology and Preservation		GEO 307	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
Recreation Resource Management		TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	
Wilderness Management		TRAL 352	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 the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.

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 HHS 231 & 241/PAC Course
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: ECON 201 or AEC 250 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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