TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

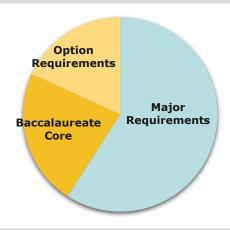
Tillamook Bay Community College

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 Core Requirements Complete one course per category	TBCC Course	OSU Course	Notes
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future	NAT 201	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 Intro to Communication Theory Small Group Problem Solving Communication in Organizations	COMM 215	COMM 321 COMM 322 COMM 324	
Intercultural Communication Non-Verbal Communication Communication and Culture in Cyberspace Theories of Conflict and Conflict Management Bargaining and Negotiating Processes Forest as Classroom	COMM 140	COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 FES 430	Available online at OSU Available online at OSU Available online at OSU
Effective Comm in Fish & Wildlife Sciences Critical thinking for NR Challenges Environmental Interpretation Technical Writing Science Writing Environmental Writing Professional Writing	WR 227	FW 489 NR 312 TRAL 493 WR 327 WR 362 WR 462 WR 466	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Biology I General Biology I with Lab Introduction to Biology I Principles of Biology: Cells	BI 101 BI 221	BI 101 BI 204 BI 221	Available online at OSU Available online at OSU



NR Core Requirements (continued) Complete one course per category	TBCC Course	OSU Course	Notes
Biology II			
General Biology II with Lab	BI 102	BI 102	Available online at OSU
Introduction to Biology II Principles of Biology: Organisms	BI 222	BI 205 BI 222	Available online at OSU
Biology III	01 222	D1 222	
General Biology III with Lab	BI 103	BI 103	Available online at OSU
Introduction to Biology III		BI 206	Available online at OSU
Principles of Biology: Populations	BI 223	BI 223	
Chemistry	CUITOA	CU 121	Association and an action
General Chemistry I with Lab General Chemistry (Majors) I with Lab	CH 104 CH 221	CH 121 CH 231 & 261	Available online at OSU Available online at OSU
Climate Science	C11 ZZ1	C11 251 & 201	Available offiline at 050
Climate Science		ATS 201	Available online at OSU
Global Change Biology		FW 345	
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change Earth or Soil Science		SUS 103	Available online at OSU
Soil Science		CSS 205	Available online at OSU
Principles of Soil Science		CSS 305	Available offine at 636
The Solid Earth	GS 106	GEO 101	Available online at OSU
Physical Geology	G 201	GEO 201	
Earth Systems Science	G 202	GEO 202	
Environmental Geology		GEO 221	Available online at OSU
Physical Geography Soil Science with Lab	SOIL 205	GEOG 102 SOIL 205 & 206	Available online at OSU
Soil Science with Forest Soils Lab	SOIL 205	SOIL 205 & 200	
Ecology			
Marine Ecology		BI 351	Available online at OSU
General Ecology		BI 370	Available online at OSU
Plant Ecology		BOT 341	Available online at OSU
Forest Ecology Mathematics		FES 341	Available online at OSU
Elementary Functions	MTH 112	MTH 112	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	MTU 242	CT 201	Available enline at OCH
Principles of Statistics Intro to Statistical Methods	MTH 243	ST 201 ST 351	Available online at OSU Available online at OSU
Animal ID		31 331	Available offilite at 030
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 Biology of Insects		FW 318 Z 365	Available online at OSU
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 477	, wandsie omme de ooo
Environ. Assessment & Planning			
Ecological Restoration		FES/FW 445	Available online at OSU
Ecosystems Services		FW 462	Available online at OSU
Land Use Planning for Sust. Communities Land Use in the American West		GEOG 250 GEOG 450	Available online at OSU
Planning Principles for Resilient Communities		GEOG 450 GEOG 451	
Sustainable Site Planning		GEOG 452	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	
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 Sustainable Communities		SUS 304 SUS 350	Available online at OSU Available online at OSU
Planning for Sustainable Recreation		TRAL 456	Available offiline at 050
Planning for Sustainable Tourism		TRAL 457	

NR Core Requirements (continued)	TBCC Course	OSU Course	Notes
Complete one course per category	TBCC Course	OSO Course	Notes
Fish & Marine Sciences			
Intro to Marine Biology		BI 150	
Biology of Marine Mammals		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
Marine Fisheries		FW 465	Available offine at 050
Fish Ecology		FW 473	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Oceanography	GS 108	OC 201	Available online at OSU
	GS 106	OC 332	Available offliffe at 050
Coastal Oceanography Forestry		OC 332	
International Forestry		FE/FOR 456	
	FOR 240		Available enline at OCII
Forest Biology	FOR 240	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/FW 445	Available online at OSU
Biodiversity Conservation in Managed Forests		FES/FW 452	Available online at OSU
Agroforestry		FES/NR 477	
Topics in Wildland Fire		FOR 346	Available online at OSU
Silviculture Principles		FOR 441	
Land & Water			
Watershed Processes		FE 430	Available online at OSU
Forest Watershed Management		FE 434	
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
Desert Water Shed Management		RNG 355	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		-	
Wildland Fire Ecology		FES 440	Available online at OSU
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	
Dendrology	FOR 241	FES 241	Available online at OSU
Landscape Plant Materials I: Decid & Conifers		HORT 226	Available online at OSU
Landscape Plant Materials II: Shrubs		HORT 228	Available online at OSU
Wildland Plant Identification		RNG 353	Available online at OSU
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NR Core Requirements (continued)			
Complete one course per category	TBCC Course	OSU Course	Notes
Wildlife Management			
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
Biodiversity Conservation in Managed Forests		FES/FW 452	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
Ethics & Philosophy		_ = ===	/ ranasis simile at 555
Ecosystems Science of the PNW Indians		AG 301	Available online at OSU
Anthropology, Health, and the 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 offine de 050
Multicultural Perspectives in NR		FW 340	Available online at OSU
Transforming Environmental Conflicts		GEOG 241	Available online at OSU
Environmental Justice		GEOG 330	Available online at OSU
Environmental History of the United States		HST 481	Available online at OSU
Critical Thinking for NR Challenges		NR 312	Available offilite at 030
Nature in Storytelling over the Centuries		NR 380	Available online at OSU
Environmental Ethics		PHL 440	Available online at OSU
World View and Environmental Values		PHL/REL 443	Available online at OSU
Sustainability, Justice & Engagement		SUS 331	Available online at OSU
Natural Resource Policy		303 331	Available offilite at 030
Environmental Law		AEC 432	Available online at OSU
Rural Development Economics & Policy		AEC 454	Available online at OSU
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy		FOR 460	Available offille at 050
Natural Resources Policy and Law		FOR 462	
		FW 415	Available online at OSU
Fish & Wildlife Law and Policy		FW 413	Available online at OSU
Introduction to Ocean Law			
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
Political Issues		ENT/LIGHT 200	Accellate antique at OCH
Plagues, Pests, and Politics		ENT/HORT 300	Available online at OSU
Natural Resource Policy and Law		FOR 462	A - : ! - ! ! ! ! ! OG! !
Endangered Spec, Society and Sustainability		FW 350	Available online at OSU
When Science Escapes the Lab		NR 351	
The Politics of Climate Change		PS 455	Available online at OSU
Environmental Politics and Policy		PS 475	Available online at OSU
Science and Politics		PS 476	Available online at OSU
International Environmental Politics & Policy		PS 477	Available online at OSU
Wilderness Management		TRAL 352	Available online at OSU
Economics			
Intro to Environmental Economics & Policy		AEC 250	Available online at OSU
Intro to Microeconomics	EC 201	ECON 201	Available online at OSU

NR Core Requirements (continued) Complete one course per category	TBCC Course	OSU Course	Notes
Social Issues			
Human Impacts on Ecosystems		BI 301	
Human Ecology		BI 348	
Issues in Natural Resource Conservation		FES 365	Available online at OSU
Global Crises in Resource Ecology		FW 325	Available online at OSU
Sustainability for the Common Good		GEOG 300	Available online at OSU
Climate Change, Water and Society		GEOG 240	
Transforming Environmental Conflicts		GEOG 241	
Resilience-Based Natural Resource Mgmt		GEOG 430	
Global Resource Development		GEOG 431	
When Science Escapes the Lab		NR 351	
Oceans, Coasts & People		OC 333	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	FOR 251	TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	
Wilderness Management		TRAL 352	Available online at OSU
Nature, Eco, and Adventure Tourism		TRAL 353	
Communities, Natural Areas, and Tourism		TRAL 354	
Parks & Protected Areas		TRAL 357	
Women and Natural Resources		WGSS 440	Available online at OSU
Spatial Analysis			
Precision Agriculture		CROP/HORT 414	Available online at OSU
GIS and Forest Engineering Applications	GEO 265	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 Natural Resource Education Option

Requirement			
Complete one course per category unless	TBCC Course	OSU Course	Notes
otherwise noted			
Measurements		550 400	A 11 11 11 1 10 10 10 10 10 10 10 10 10 1
Forest as Classroom		FES 430	Available online at OSU
Introduction to Forestry	FOR 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	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 Multlicult. 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 12 credits			
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 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
Food from the Sea		FW 324	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	G 202	GEO 202	
Evolution of Planet Earth		GEO 203	
National Park Geology and Preservation		GEO 307	Available online at OSU
Nature in Storytelling Over the Centuries		NR 380	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	FOR 251	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.

• Full listing of TBCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-</u>

equivalencies-tillamook-bay-community-college

equivalences than	Math	Completed as part of major: MTH 112 or higher
	Matri	Completed as part of major: MTH 112 or higher WR 121. Required to transfer.
SIZEL S SOURCES	1	· ·
SKILLS COURSES	Writing II	Can be completed as part of major: see advisor
	Speech (Writing III)	Choose one course from Bacc Core link above
	Fitness	PE 295 @ TBCC
	Biological Science	Completed as part of major: Biology I
	Physical Science	Completed as part of major: Chemistry
DEDCRECTIVE	Additional Biological or Physical Science	Completed as part of major: Biology II
PERSPECTIVE	Cultural Diversity	Choose one course from Bacc Core link above
COURSES	Literature and the Arts	Choose one course from Bacc Core link above
	Social Processes and Institutions	Completed as part of major: EC 201
	Western Culture	Choose one course from Bacc Core link above
DPD COURSE	Difference, Power, & Discrimination	Can be completed as part of major: see advisor
	Contemporary Global Issues	Upper division course, take through OSU
SYNTHESIS COURSES	Science, Technology, & Society	Upper division course, take through OSU
	Science, realifology, & Society	opper division course, take through 050

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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