TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS ECAMPUS

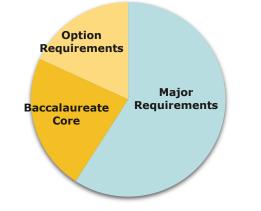
Tillamook Bay Community College

Natural Resources Major with Policy & Management 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 in the broad arena of natural resource and environmental conservation, with an emphasis on the social and political aspects of resource issues.

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.
- <u>More info: forestry.oregonstate.edu/undergraduate-</u> programs/natural-resources/policy-and-management

Courses Required for Natural Resources Major

NR Core Requirements	TBCC Course	OSU Course	Notes
Complete one course per category	1200 000100		
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		COMM 321	
Small Group Problem Solving	COMM 215	COMM 322	
Communication in Organizations		COMM 324	
Intercultural Communication	COMM 140	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 in Fish & Wildlife Sciences		FW 489	Available online at OSU
Critical thinking for NR Challenges		NR 312	
Environmental Interpretation		TRAL 493	Available online at OSU
Technical Writing	WR 227	WR 327	Available online at OSU
Science Writing		WR 362	Available online at OSU
Environmental Writing		WR 462	
Professional Writing		WR 466	
Biology I			
General Biology I with Lab	BI 101	BI 101	Available online at OSU
Introduction to Biology I		BI 204	Available online at OSU
Principles of Biology: Cells	BI 221	BI 221	



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	51 102	BI 205	Available online at OSU
Principles of Biology: Organisms	BI 222	BI 222	
Biology III			
General Biology III with Lab	BI 103	BI 103	Available online at OSU
Introduction to Biology III	DI 105	BI 206	Available online at OSU
Principles of Biology: Populations	BI 223	BI 223	Available offinite at 050
Chemistry	DI 225	DI 225	
General Chemistry I with Lab	CH 104	CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CH 221	CH 231 & 261	Available online at OSU
Climate Science		CH 251 & 201	Available offinite at 030
Climate Science		ATS 201	Available online at OSU
		FW 345	Available offinite at 030
Global Change Biology		GEOG 323	Available online at OSU
Climatology			
Intro to Climate Change		SUS 103	Available online at OSU
Earth or Soil Science		CSS 205	Available enline at OCU
Soil Science		CSS 205	Available online at OSU
Principles of Soil Science	CS 10C	CSS 305	Available enline -t OCU
The Solid Earth	GS 106	GEO 101	Available online at OSU
Physical Geology	G 201	GEO 201	
Earth Systems Science	G 202	GEO 202	Available online at OCU
Environmental Geology		GEO 221	Available online at OSU
Physical Geography	COTI 205	GEOG 102	Available online at OSU
Soil Science with Lab	SOIL 205	SOIL 205 & 206	
Soil Science with Forest Soils Lab	SOIL 205	SOIL 205 & FOR 206	
Ecology		BT 254	
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		FES 341	Available online at OSU
Mathematics			
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		CT 201	
Principles of Statistics	MTH 243	ST 201	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	
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 477	
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		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
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		SUS 304	Available online at OSU
Sustainable Communities		SUS 350	Available online at OSU
	1	TRAL 456	
Planning for Sustainable Recreation		TRAL 450	

NR Core Requirements (continued) Complete one course per category	TBCC Course	OSU 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	
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
Coastal Oceanography		OC 332	
Forestry		00002	
International Forestry		FE/FOR 456	
Forest Biology	FOR 240	FES 240	Available online at OSU
Forest Ecology	1 OK 240	FES 341	Available online at OSU
57			
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
		GEOG 440	Available offine at 050
Water Resources Management in the U.S.		GEOG 441	Available online at OSU
International Water Resource Management			Available online at OSU
Desert Water Shed Management		RNG 355	
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 441 RNG 442	Available online at OSU
Rangeland Management and Planning		RNG 490	Available online at OSU
Vegetation ID		DOT 221	
Plant Systematics		BOT 321	
Agrostology		BOT 414	
Flora of the Pacific Northwest		BOT 425	
	FOR 241	FES 241	Available online at OSU
Dendrology			
Landscape Plant Materials I: Decid & Conifers		HORT 226	Available online at OSU
		HORT 226 HORT 228 RNG 353	Available online at OSU Available online at OSU

NR Core Requirements (continued)	TBCC Course	OSU Course	Notes
Complete one course per category		030 course	Hotes
Wildlife Management			
Principles of Fish & Wildlife Conservation	FW 251	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
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			
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	
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	
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			
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	
Natural Resources Policy and Law		FOR 462	
Fish & Wildlife Law and Policy		FW 415	Available online at OSU
Introduction to Ocean Law		FW 422	Available online at OSU
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			
Plagues, Pests, and Politics		ENT/HORT 300	Available online at OSU
Natural Resource Policy and Law		FOR 462	
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 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 Oceans, Coasts & People Social Dimensions of Sustainability Rural Sociology Environmental Sociology Society and Natural Resources		BI 301 BI 348 FES 365 FW 325 GEOG 300 GEOG 240 GEOG 241 GEOG 430 GEOG 431 NR 351 OC 333 SOC 381 SOC 475 SOC 480 SOC 481	Available online at OSU Available online at OSU
Social Dimensions of Sustainability Recreation Resource Management Outdoor Recreation on Public Lands Wilderness Management Nature, Eco, and Adventure Tourism Communities, Natural Areas, and Tourism Parks & Protected Areas Women and Natural Resources	FOR 251	SUS 420 TRAL 251 TRAL 351 TRAL 352 TRAL 353 TRAL 354 TRAL 357 WGSS 440	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	GEO 265	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 Policy & Management Option

Requirement Complete one course per category unless otherwise noted	TBCC Course	OSU Course	Notes
Measurements			
Research Methods in Social Science		FES 422	Available online at OSU
Research Methods		PS 300	Available online at OSU
Social Science & NR: choose 2 courses			
Intro to Climate Change Econ & Policy		AEC 122	Available online at OSU
Environmental Law, Policy & Economics		AEC 253	
Ecosystems of the Pacific NW Indians		AG 301	Available online at OSU
Ecological Anthropology		ANTH 477	Available online at OSU
Mgmt Principles of Pacific Salmon in NW		FW 323	Available online at OSU
Multicultural Perspectives in Natural Resources		FW 340	Available online at OSU
Climate Change, Water and Society		GEOG 240	
Land Use Planning for Sustainable Community		GEOG 250	Available online at OSU
Sustainability for the Common Good		GEOG 300	Available online at OSU
Geography of Natural Hazards		GEOG 350	Available online at OSU
Resilience-Based Nat Resource Management		GEOG 430	
Land Use in the American West		GEOG 450	
Plan Principles and Pract for Resilient Comm		GEOG 451	
Sustainable Site Planning		GEOG 452	Available online at OSU
Critical Thinking for NR Challenges		NR 312	
When Science Escapes the Lab		NR 351	
Environmental Sociology		SOC 480	Available online at OSU
Society and Natural Resources		SOC 481	Available online at OSU
Sustainability, Justice, and Engagement		SUS 331	Available online at OSU

Requirement Complete one course per category unless	TBCC Course	OSU Course	Notes
otherwise noted		obo course	Hotes
NR Policy: Choose 12-13 credits from at			
least two departments			
Natural Resource Economics & Policy		AEC 351	Available online at OSU
Environmental Econ & Policy		AEC/ECON 352	Available online at OSU
Environmental Law		AEC 432	Available online at OSU
Marine Economics		AEC 452	Available online at 050
Conservation of Private Land		AEC 453	
Issues in Natural Resource Conservation		FES 365	Available online at OSU
		FES 486	Available online at OSU
Public Lands Policy and Management			Available offinite at 050
Econ and Policy of Forest Wildland Fire		FOR 431	
Forest Policy		FOR 460	
Forest Policy Analysis		FOR 461	
Endangered Species, Soc. and Sustainability		FW 350	Available online at OSU
Fisheries and Wildlife Law and Policy		FW 415	Available online at OSU
Intro to Ocean Law		FW 422	Available online at OSU
Intro to US Government & Politics		PS 201	Available online at OSU
The Politics of Climate Change		PS 455	Available online at OSU
Environmental Political Theory		PS 461	
Global Food Politics and Policy		PS 470	Available online at OSU
U.S. Energy Policy		PS 473	Available online at OSU
Environmental Politics and Policy		PS 475	Available online at OSU
Int'l Environmental Politics and Policy		PS 477	Available online at OSU
Renewable Energy Policy		PS 478	Available online at OSU
NR Management: Choose 12 credits			
Field Methods in Plant Ecology		BOT 440	Available online at OSU
Environmental Case Studies		ENSC 479	Available online at OSU
Wildland Fire Ecology		FES 440	Available online at OSU
Urban Forest Planning, Policy, and Mgmt		FES/HORT 455	Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Topics in Wildland Fire		FOR 346	Available online at OSU
Wildland Fire Science and Management		FOR 436	Available online at OSU
Survey of Geographic Information Systems		FW 303	Available online at OSU
Applied Community and Ecosystem Ecology		FW 321	Available online at OSU
Global Crises in Resource Ecology		FW 325	Available online at OSU
Integrated Watershed Management		FW 326	Available online at OSU
Wildlife in Agricultural Ecosystems		FW 435	Available online at OSU
Wetlands and Riparian Ecology		FW 479	Available online at OSU
Foundations of Geospatial Science and GIS		GEOG 201	Available online at OSU
Intro to Water Science and Policy		GEOG 340	Available online at OSU
		GEOG 440	Available offine at 050
Water Resources Management in the US			Available online at OCU
Int'l Water Resource Management		GEOG 441	Available online at OSU
Riparian Ecohydrology and Management		RNG 455	Available online at OSU
Rangeland Management and Planning		RNG 490	Available online at OSU
Wilderness Management		TRAL 352	Available online at OSU
Resource Economics			
Natural Resources Economics & Policy		AEC 351	Available online at OSU
Environmental Economics & Policy		AEC/ECON 352	Available online at OSU
Intro to Coastal & Marine Resource Econ		AEC 353	Available online at OSU
Rural Development Economics & Policy		AEC 454	
Econ of Traditional & Renewable Energy		ECON 466	Available online at OSU
Forest Resource Economics I		FOR 329	
Economics & Policy of Wildland Fire		FOR 431	Available online at OSU
Economics of Recreation & Tourism	1	TRAL 432	

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

equivalencies tillation	ok bay community conege	
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 PE 295 @ TBCC
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.

Tillamook Bay Community College	Megan Deane McKenna, Lead Faculty for Agriculture, Nat Resources, and Forestry Megan.deanemckenna@oregonstate.edu
OSU College of Forestry Prospective Student Advisor	Autumn VanderLinden 541-737-9135 Autumn.VanderLinden@oregonstate.edu