TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS ECAMPUS

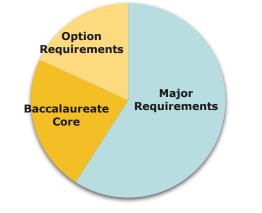
Linn-Benton Community College

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	LBCC Course	OSU Course	Notes
Complete one course per category	LDCC Course		NOLES
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	Available online at OSU
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	LBCC Course	OSU Course	Notes
Biology II			
General Biology II with Lab	BI 102	BI 102	Available online at OSU
Introduction to Biology II		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	51 100	BI 206	Available online at OSU
Principles of Biology: Populations	BI 223	BI 223	Available online at 050
Chemistry	Di 223	D1 225	
General Chemistry I with Lab	CH 121	CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CH 221	CH 231 & 261	Available online at OSU
Climate Science			
Climate Science		ATS 201	Available online at OSU
Global Change Biology		FW 345	Available online at 050
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Earth or Soil Science		565 105	
Soil Science		CSS 205	Available online at OSU
The Solid Earth	G 101	GEO 101	Available online at OSU
Physical Geology	G 201	GEO 101 GEO 201	
Earth Systems Science	G 201 G 202	GEO 201 GEO 202	
Environmental Geology	5 202	GEO 202	Available online at OSU
Physical Geography	G 102	GEOG 102	Available online at OSU
Soil Science with Lab	CSS 205	SOIL 205 & 206	Available offine at 050
Soil Science with Forest Soils Lab	633 203	SOIL 205 & FOR 206	
Ecology		5012 205 & TOR 200	
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		123 341	Available offinite at 050
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	MTH 245	Available online at OSU
Differential Calculus	MTH 251	MTH 251	Available online at OSU
Statistics	1111 251	FITT 251	
Principles of Statistics	STAT 243Z	ST 243Z	Available online at OSU
Intro to Statistical Methods	STAT 2452	ST 351	Available online at OSU
Animal ID		51 551	
Terrestrial Vertebrate ID & Natural History		FOR 210	
Forest Entomology		FES 412	
Systematics of Birds		FUS 412 FW 312	Available online at OSU
		FW 316	Available online at OSU
Systematics of Fishes Systematics of Mammals		FW 318	Available online at OSU
Biology of Insects		Z 365	
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 473	
Environ. Assessment & Planning			
Agriculture & Environmental Predicaments		CROP/SOIL/SUS 325	
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 450 GEOG 451	Available online at OSU
Sustainable Site Planning		GEOG 451 GEOG 452	Available online at OSU
Wildland restoration and Ecology		RNG 421	Available online at OSU
Habitat Analysis I		RNG 421 RNG 457	Available online at OSU
Rangeland Management and Planning		RNG 490	Available online at OSU
Sustainability Assessment		SUS 304	Available online at OSU
			Available online at OSU
Sustainable Communities		SUS 350	
Planning for Sustainable Recreation		TRAL 456	
Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems		TRAL 457 NR 325	Available online at OSU
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NR Core Requirements (continued) Complete one course per category	LBCC Course	OSU Course	Notes
Fish & Marine Sciences			
		DI 150	
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
		FW 323	
Mgmt Principles of Pacific Salmon in the NW			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
	GS 108	OC 201	Available online at OSU
Oceanography	GS 108		Available offinite at 050
Coastal Oceanography		OC 332	
Forestry			
International Forestry		FE/FOR 456	
Forest Biology		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
			Available Utilitie at USU
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
			Available offinite at 030
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
		RNG 455	Available online at OSU
Riparian Ecohydrology and Management			
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
		5012 100	
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
			Available online at OSU
Range Ecology I – Grasslands		RNG 351	
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
			Available online at OSU
Rangeland Management and Planning		RNG 490	
Vegetation ID			
Plant Systematics		BOT 321	Available online at OSU
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	HORT 226	HORT 226	Available online at OSU
Landscape Plant Materials II: Shrubs	HORT 228	HORT 228	Available online at OSU
Wildland Plant Identification		RNG 353	Available online at OSU

NR Core Requirements (continued) Complete one course per category	LBCC Course	OSU Course	Notes
Wildlife Management Principles of Fish & Wildlife Conservation 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	FW 251	FW 251 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
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 Transforming Environmental Conflicts Environmental Justice Environmental History of the United States Critical Thinking for NR Challenges Nature in Storytelling over the Centuries Environmental Ethics World View and Environmental Values Sustainability, Justice & Engagement	G 209	AG 301 ANTH 352 ANTH 477 ANTH 481 ANTH 482 FW 340 GEOG 241 GEOG 330 HST 481 NR 312 NR 380 PHL 440 PHL/REL 443 SUS 331	Available online at OSU Available online at OSU
Natural Resource Policy Environmental Law Public Lands Policy & Management Forest Policy Forest Policy Analysis Fish & Wildlife Law and Policy Introduction to Ocean Law U.S. Energy Policy Environmental Politics and Policy International Environmental Politics & Policy Political Issues Plagues, Pests, and Politics Endangered Spec, Society and Sustainability When Science Escapes the Lab The Politics of Climate Change Environmental Politics International Environmental Policy Science and Politics International Environmental Politics & Policy Wilderness Management		AEC 432 FES 486 FOR 460 FOR 461 FW 415 FW 422 PS 473 PS 475 PS 477 ENT/HORT 300 FW 350 NR 351 PS 455 PS 475 PS 476 PS 477 TRAL 352	Available online at OSU Available online at OSU
Economics Intro to Environmental Economics & Policy Intro to Microeconomics	EC 201	AEC 250 ECON 201	Available online at OSU Available online at OSU Available online at OSU

NR Core Requirements (continued) Complete one course per category	LBCC 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		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	Available online at OSU
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	ENGR 242	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 Policy & Management Option

Requirement Complete one course per category unless	LBCC Course	OSU Course	Notes
otherwise noted			
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 Economics & Policy		AEC 122	Available online at OSU
Environmental Law, Policy & Economics		AEC 253	Available online at OSU
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	Available online at OSU
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	Available online at OSU
Sustainable Site Planning		GEOG 452	Available online at OSU
Critical Thinking for NR Challenges		NR 312	
When Science Escapes the Lab		NR 351	
Intro to Sociology		SOC 204	Available online at OSU
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			Notes
Complete one course per category unless	LBCC Course	OSU Course	Notes
otherwise noted			
NR Policy: Choose 12-13 credits from at least two departments			
Natural Resource Economics & Policy		AEC 351	Available online at OSU
			Available online at OSU
Environmental Econ & Policy		AEC/ECON 352	
Intro to Coastal and Marine Resource Econ		AEC 353	Available online at OSU
Environmental Law		AEC 432	Available online at OSU
Marine Economics Issues in Natural Resource Conservation		AEC 452	Available enline at OCU
		FES 365	Available online at OSU
Public Lands Policy and Management		FES 486 FOR 431	Available online at OSU
Econ and Policy of Forest Wildland Fire			Available online at OSU
Forest Policy		FOR 460	
Forest Policy Analysis		FOR 461	Available enline at OCU
Endangered Species, Soc. and Sustainability		FW 350 FW 415	Available online at OSU Available online at OSU
Fisheries and Wildlife Law and Policy			
Intro to Ocean Law	DE 201	FW 422	Available online at OSU
Intro to US Gov't & Politics	PS 201	PS 201 PS 455	Available online at OSU Available online at OSU
The Politics of Climate Change		PS 455 PS 470	Available online at OSU
Global Food Politics and Policy		PS 470 PS 473	
U.S. Energy Policy		PS 475	Available online at OSU Available online at OSU
Environmental Politics and Policy			
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		POT 440	Available enline at OSU
Field Methods in Plant Ecology		BOT 440	Available online at OSU Available online at OSU
Environmental Case Studies		ENSC 479 FES 440	
Wildland Fire Ecology			Available online at OSU Available online at OSU
Urban Forest Planning, Policy, and Mgmt		FES/HORT 455	Available online at OSU
Ecological Restoration Topics in Wildland Fire		FES/FW 445 FOR 346	Available online at OSU
		FOR 436	
Wildland Fire Science and Management		FW 303	Available online at OSU
Survey of Geographic Information Systems		FW 303 FW 321	Available online at OSU
Applied Community and Ecosystem Ecology Global Crises in Resource Ecology		FW 325	Available online at OSU Available online at OSU
Integrated Watershed Management		FW 325	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
Water Resources Management in the US		GEOG 440 GEOG 440	Available online at 050
			Available online at OSU
Int'l Water Resource Management Riparian Ecohydrology and Management		GEOG 441 RNG 455	Available online at OSU
Rangeland Management and Planning		RNG 490	Available online at OSU
and a second		TRAL 352	
Wilderness Management Resource Economics		INAL 332	Available online at OSU
Natural Resources Economics & Policy		AEC 351	Available online at OSU
Environmental Economics & Policy			Available online at OSU
		AEC/ECON 352 AEC 353	Available online at OSU
Intro to Coastal & Marine Resource Econ		ECON 466	Available online at OSU
Econ of Traditional and Renewable Energy		FOR 329	Available online at USU
Forest Resource Economics I		FOR 329	Available online at OSU
Economics & Policy of Wildland Fire Economics of Recreation & Tourism			Available offine at USU
LCONUMICS OF RECLEMENT & TOURISM		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 LBCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-</u> equivalencies-linn-benton-community-college

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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 PE 231 @ LBCC
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 or PS 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.

Linn-Benton Community College	linnbenton.edu/current-students/student-support/advising-center/
OSU College of Forestry	541-737-1594
Student Services Office	forestrystudentservices@oregonstate.edu