TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:
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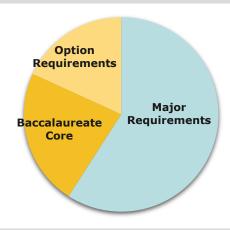
Linn-Benton Community College

Natural Resources Major with Forest Ecosystems Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Students will understand the nature of forest ecosystems and the process by which they function.

Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

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 at forestry.oregonstate.edu/undergraduateprograms/natural-resources/forest-ecosystems

Courses Required for Natural Resources Major

NR Core Requirements Complete one course per category	LBCC Course	OSU Course	Notes
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 Intro to Communication Theory Small Group Problem Solving Communication in Organizations		AG 351 COMM 321 COMM 322 COMM 324	Available online at OSU
Intercultural Communication Non-Verbal Communication Communication and Culture in Cyberspace Theories of Conflict and Conflict Management Bargaining and Negotiating Processes		COMM 326 COMM 328 COMM 385 COMM 440 COMM 442	Available online at OSU Available online at OSU
Forest as Classroom Effective Comm of Environmental Change Sci Critical thinking for NR Challenges		FES 430 GEOG 453 NR 312	Available online at OSU
Environmental Interpretation Science Writing		TRAL 493 WR 362	Available online at OSU Available online at OSU
Environmental Writing		WR 462	Available online at OSU
Biology I Introduction to Biology I Principles of Biology: Cells	BI 221	BI 204 BI 221	Available online at OSU



NR Core Requirements (continued)	LBCC Course	OSU Course	Notes
Complete one course per category	EDCC COUISC	050 000.50	Hotes
Biology II			
Introduction to Biology II	DT 222	BI 205	Available online at OSU
Principles of Biology: Organisms	BI 222	BI 222	
Biology III		DT 2006	
Introduction to Biology III	DT 222	BI 206	Available online at OSU
Principles of Biology: Populations	BI 223	BI 223	
Chemistry	CH 121	CH 121	Available enline at OCH
General Chemistry I with Lab General Chemistry (Majors) I with Lab	CH 221	CH 231 & 261	Available online at OSU Available online at OSU
Climate Science	CH 221	CH 231 & 261	Available offille at USU
Climate Science		ATS 201	Available online at OSU
Global Change Biology		FW 345	Available offillie at 050
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Soil Science		303 103	Available offilite at 050
Soil Science		CSS 205	Available online at OSU
Soil Science with Lab	CSS 205	SOIL 205 & 206	, wandsie omnie de ooo
Soil Science with Forest Soils Lab	333 203	SOIL 205 & 200 SOIL 205 & FOR 206	
Ecology		3312 233 & 1 31 230	
Marine Ecology		BI 351	Available online at OSU
General Ecology		BI 370	Available online at OSU
Plant Ecology		BOT 341	Available online at OSU
Mathematics			
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			
Principles of Statistics	STAT 243Z	ST 243Z	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			
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	Aveilable entiret OCU
Planning Principles for Resilient Communities		GEOG 451	Available online at OSU
Sustainable Site Planning		GEOG 452	Available online at OSU
Wildland restoration and Ecology		RNG 421 RNG 457	Available online at OSU Available online at OSU
Habitat Analysis I		RNG 457 RNG 490	Available online at OSU Available online at OSU
Rangeland Management and Planning			Available online at OSU Available online at OSU
Sustainability Assessment Sustainable Communities		SUS 304 SUS 350	Available online at OSU
Planning for Sustainable Recreation		TRAL 456	Available offille at 050
Planning for Sustainable Recreation Planning for Sustainable Tourism		TRAL 450	
Scientific Methods for Analyzing NR Problems		NR 325	Available online at OSU
Scientific metrious for Analyzing NK Problems	I .	INIT JEJ	Available offille at 030

NR Core Requirements (continued) Complete one course per category	LBCC 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
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			
International Forestry		FE/FOR 456	
Forest Biology		FES 240	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Urban Forestry		FES/HORT 350	Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Agroforestry		FES/NR 477	
Topics in Wildland Fire		FOR 346	Available online at OSU
Land & Water			,
Watershed Processes		FE 430	Available online at OSU
Forest Watershed Management		FE 434	Available offille at 030
Integrated Watershed Management		FW 326	Available online at OSU
		FW 456	Available online at OSU
Freshwater Ecology and Conservation			
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
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			
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
			Available online at OSU
Range Ecology II – Shrub Lands Wildland Restoration and Ecology		RNG 352 RNG 421	Available online at OSU
5.			
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		DOT 224	A
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
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
Mammal Conservation and Management		FW 451 FW 458	Available online at OSU
		FW 481	Available online at OSU
Wildlife Ecology			
Animal Behavior	l	Z 350	Available online at OSU

NR Core Requirements (continued)			
Complete one course per category	LBCC Course	OSU Course	Notes
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	Available offilite at 030
Multicultural Perspectives in NR		FW 340	Available online at OSU
Transforming Environmental Conflicts		GEOG 241	Available online at OSU
Environmental Justice	G 209	GEOG 330	Available online at OSU
	G 209	HST 481	
Environmental History of the United States			Available online at OSU
Critical Thinking for NR Challenges		NR 312	Associable entire at OCH
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
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy		FOR 460	
Forest Policy Analysis		FOR 461	
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
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
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	/ valuable of line at 000
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 361 SOC 475	Available offille at 030
Environmental Sociology		SOC 473	Available online at OSU
		SOC 480 SOC 481	Available online at OSU
Society and Natural Resources			
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	A
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

NR Core Requirements (continued) Complete one course per category	LBCC Course	OSU Course	Notes
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 Forest Ecosystems Option

Requirement Complete one course per category unless	LBCC Course	OSU Course	Notes
otherwise noted			
Measurements			
Field Methods in Ecological Restoration		BI 375	
Field Methods in Plant Ecology		BOT 440	Available online at OSU
Forest Mensuration		FOR 321	
Forest Ecology		FES 341	Available online at OSU
Forest Entomology		FES 412	
Wildland Fire Ecology		FES 440	Available online at OSU
Biodiversity Conservation in Managed Forests		FES/FW 452	Available online at OSU
Forest Pathology		FOR 413	7 (Valiable of life at 656
Wildland Fire Science & Management		FOR 436	Available online at OSU
Silviculture Principles		FOR 441	Available offine at 050
Ecology Breath – choose two classes		100 441	
Plant Systematics		BOT 321	
Plant Ecology		BOT 321	Available online at OSU
Flora of the Pacific Northwest		BOT 425	Available offilite at 030
Forest Watershed Management		FE 434	
Ecological Restoration		FES/FW 445	Available online at OSU
Agroforestry		FES/NR 477	Available offilite at 030
Principles of Fish & Wildlife Conservation		FW 251	Available online at OSU
Ornithology		FW 311	Available online at OSU
Ichthyology		FW 315	Available online at OSU
Mammalogy		FW 317	Available online at OSU
Introductory Population Dynamics		FW 320	Available online at OSU
Applied Community and Ecosystem Ecology		FW 321	Available online at OSU
Avian Conservation and Management		FW 451	Available online at OSU
Freshwater Ecology and Conservation		FW 456	Available online at OSU
Mammal Conservation and Management		FW 458	Available online at OSU
Fish Ecology		FW 473	/ tvaliable of line at 000
Wildlife Ecology		FW 481	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	/ tvaliable of line at 000
Range Ecology I – Grasslands		RNG 351	Available online at OSU
Range Ecology II – Shrublands		RNG 352	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
Soil morphology and Classification		SOIL 466	Available online at OSU
Biodiversity: Causes, Consequences, Conserv.		Z 349	Available online at OSU
Herpetology		Z 473	Available online at OSU
Technical Electives			
Forest Surveying	CEM 263	FE 208	Available online at OSU
Forest Photogrammetry & Remote Sensing		FE 209	
GIS & Forest Engineering Applications		FE 257	Available online at OSU
Harvesting Operations		FE 370	
Forestry Remote Sensing & Photogrammetry		FE 444	
Arboriculture		FES 447	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
Intro to Statistical Methods I		ST 351	Available online at OSU
Intro to Statistical Methods II		ST 352	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 LBCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-linn-benton-community-college</u>

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 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.

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