#### TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:
CORVALLIS

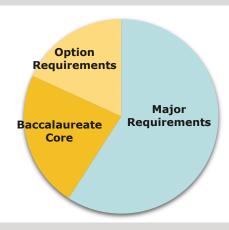
## Blue Mountain Community College

#### **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

NR Core Requirements			
Complete one course per category	BMCC 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		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	
Biology I			
Introduction to Biology I		BI 204	Available online at OSU
Principles of Biology: Cells	BI 211	BI 221	
Biology II			
Introduction to Biology II		BI 205	Available online at OSU
Principles of Biology: Organisms	BI 212	BI 222	





Complete one course per category			
Biology III			
Introduction to Biology III		BI 206	Available online at OSU
Principles of Biology: Populations	BI 212	BI 223	
Chemistry			
Introductory Chemistry	CH 104	CH LDT	
General Chemistry I with Lab		CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CH 221(req. for 200 level	CH 231 & 261	Available online at OSU
Climate Science	Biology at OSU)		
Climate Science		ATS 201	Available online at OSU
Global Change Biology		FW 345	
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Soil Science			
Soil Science		CSS 205	Available online at OSU
Principles of Soil Science Soil Science with Lab		CSS 305 SOIL 205 & 206	
Soil Science with Forest Soils Lab		SOIL 205 & 206 SOIL 205 & FOR 206	
Ecology		3012 203 & 1 0 1 200	
Marine Ecology		BI 351	Available online at OSU
General Ecology		BI 370	Available online at OSU
Plant Ecology		BOT 341	Available online at OSU
Mathematics			
Elementary Functions	MTH 112Z	MTH 112Z	Available online at OSU
Calculus for Mgmt, Life, and Social Science	MTH 241	MTH 241 MTH 245	Available online at OSU
Math for Mgmt, Life, and Social Science Differential Calculus	MTH 251	MTH 251	Available online at OSU  Available online at OSU
Statistics	14111 231	14111 231	Available offilite at 030
Principles of Statistics	STAT 243Z	ST 243Z	Available online at OSU
Intro to Statistical Methods	0.7.1. 2.132	ST 351	Available online at OSU
Animal ID			
Terrestrial Vertebrate ID & Natural History		FOR 210	
Systematics of Birds		FW 312	
Systematics of Fishes		FW 316	Available online at OSU
Systematics of Mammals		FW 318 Z 365	Available online at OSU
Biology of Insects Herpetology		Z 473	Available online at OSU
_ Aquatic Entomology		Z 477	Available online at OSU
Environ. Assessment & Planning			7.1.4.1.4.5.1.5.1.1.1.1.1.1.1.1.1.1.1.1.1
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 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 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
Planning for Sustainable Recreation		TRAL 456	
Planning for Sustainable Tourism		TRAL 457	Available online at OCH
Scientific Methods for Analyzing NR Problems Fish & Marine Sciences		NR 325	Available online at OSU
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 Fish Ecology		FW 454 FW 473	Available online at OSU  Available online at OSU
Wildlife Ecology		FW 473	Available online at OSU
Oceanography		OC 201	Available online at OSU
Coastal Oceanography		OC 332	

MCC Course	OSU Course	Notes
	FE/FOR 456	
	FES 240	Available online at OSU
		Available offilite at 030
		Available online at OSU
	FOR 340	Available offliffe at 030
	EE 420	Available online at OSU
		Available offille at 030
		Available online at OSU
		Available online at OSU
		Available online at OSU
	_	
		Available online at OSU
		Available online at OSU
	SOIL 466	Available online at OSU
		Available online at OSU
	_	Available online at OSU
		Available online at OSU
	_	Available online at OSU
	RNG 490	Available online at OSU
OT 221		
	BOT 321	
	BOT 414	
	BOT461	Available online at OSU
	FES 241	Available online at OSU
	HORT 226	Available online at OSU
	HORT 228	Available online at OSU
	RNG 353	Available online at OSU
	FW 251	Available online at OSU
	FW 320	Available online at OSU
	FW 321	Available online at OSU
	FW 435	Available online at OSU
	FW 451	Available online at OSU
	FW 458	Available online at OSU
	FW 481	Available online at OSU
		Available online at OSU
	OT 221	FES 342 FES/HORT 350 FES/FW 445 FES/NR 477 FOR 346  FE 430 FE 434 FW 326 FW 456 FW 479 GEO 306 GEO 307 GEO 308 GEOG 340 GEOG 440 GEOG 441 RNG 455 SOIL 366 SOIL 388 SOIL 395 SOIL 466  FES/FW 445 FOR 346 RNG 341 RNG 351 RNG 352 RNG 421 RNG 441 RNG 442 RNG 490  DT 221  BOT 321 LD BOT 321 LD BOT 321 BOT 414 BOT 425 BOT 414 BOT 425 BOT461 FES 241 HORT 226 HORT 228 RNG 353  FW 251 FW 320 FW 321 FW 320 FW 321 FW 455 FW 451 FW 458

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NR Core Requirements (continued)	BMCC Course	OSU Course	Notes
Complete one course per category  Ethics & Philosophy			
Ecosystems Science of the PNW Indians		AG 301	Available online at OSU
Anthropology, Health, and the Environment		AG 301 ANTH 352	Available online at OSU
		ANTH 477	Available online at OSU
Ecological Anthropology			
Natural Resources and Community Values		ANTH 481	Available online at OSU
Anthropology of International Development		ANTH 482	Aveileble selies at OCH
Multicultural Perspectives in NR		FW 340 GEOG 241	Available online at OSU
Transforming Environmental Conflicts			Available online at OSU
Environmental Justice		GEOG 330	
Environmental History of the United States		HST 481	Available online at OSU
Critical Thinking for NR Challenges		NR 312 NR 380	Available online at OSU
Nature in Storytelling Over the Centuries Environmental Ethics		PHL 440	Available online at OSU
World View and Environmental Values			Available online at OSU
		PHL/REL 443 SUS 331	Available online at OSU
Sustainability, Justice, and Engagement		505 331	Available offille at USU
Natural Resource Policy Environmental Law		AEC 432	Available online at OSU
		FES 486	Available online at OSU  Available online at OSU
Public Lands Policy & Management		FOR 460	Available offille at USU
Forest Policy		FOR 460 FOR 461	
Forest Policy Analysis			Available online at OSU
Fish & Wildlife Law and Policy Introduction to Ocean Law		FW 415 FW 422	Available online at OSU  Available online at OSU
		PS 473	Available online at OSU
U.S. Energy Policy Environmental Politics and Policy		PS 475	Available online at OSU
International Environmental Politics & Policy		PS 477	Available online at OSU
Political Issues		F3 477	Available offilite at 030
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	Available offilite at 050
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	
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, and 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

NR Core Requirements (continued) Complete one course per category	BMCC Course	OSU Course	Notes
Spatial Analysis			
Precision Agriculture		CROP/HORT 414	Available online at OSU
GIS and Forest Engineering Applications		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**

<b>Requirement</b> Complete one course per category unless otherwise noted	BMCC Course	OSU Course	Notes
Measurements			
Field Methods in Ecological Restoration		BI 375	
Field Methods in Plant Ecology		BOT 440	Available online at OSU
Forest Mensuration		FOR 321	Available offine at 050
Forest Ecology		FES 341	Available online at OSU
Forest Entomology		FES 412	Available offine at 050
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	Available offilite at 030
Wildland Fire Science & Management		FOR 436	Available online at OSU
		FOR 441	Available offille at 030
Silviculture Principles		FUR 441	
Ecology Breath – choose two classes		POT 221	
Plant Systematics Plant Ecology		BOT 321 BOT 341	Available online at OSU
Flora of the Pacific Northwest			Available offline at USU
		BOT 425 FE 434	
Forest Watershed Management Ecological Restoration		FES/FW 445	Available online at OSU
3		FES/FW 445	Available offille at 050
Agroforestry Principles of Fish & Wildlife Conservation		FES/NR 477	Available online at OSU
Ornithology		FW 251 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	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	Available offine at 050
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		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 BMCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-blue-mountain-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 HPE 295 @ BMCC
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.

Blue Mountain Community College	https://www.bluecc.edu/enrollment-services/advising
OSU College of Forestry	541-737-1594
Student Services Office	forestrystudentservices@oregonstate.edu