#### TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

#### Major Offered At:

CORVALLIS ECAMPUS

PUS CASCADES

#### Blue Mountain Community College

#### Natural Resources Major with Fish & Wildlife Conservation Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Completing this option prepares students for careers natural resource and wildlife conservation.

It emphasizes understanding the relationship between animal species and their habitat requirements and ability to apply that knowledge to the management of ecosystems as a means of conserving fish and wildlife.

## Your Bachelor's Degree (BS) in Natural Resources



### **Courses Required for Natural Resources Major**

NR Core Requirements	BMCC Course	OSU Course	Notes
Complete one course per category			
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	



NR Core Requirements (continued)	BMCC Course	OSU Course	Notes
Complete one course per category Biology II			
Introduction to Biology II		BI 205	Available online at OSU
Principles of Biology: Organisms	BI 212	BI 203	Available offinite at 050
	DI 212	DI 222	
Biology III		DI 200	Available enline at OCU
Introduction to Biology III	DT 212	BI 206	Available online at OSU
Principles of Biology: Populations	BI 213	BI 223	
Chemistry			
General Chemistry I with Lab		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	
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Earth or Soil Science			
BMCC course: Physical Geology/Earth Reveal	GS 142	GEO LDT	
Soil Science	-	CSS 205	Available online at OSU
The Solid Earth	G 101	GEO 101	
Physical Geology	G 201	GEO 201	Available online at OSU
Earth Systems Science	G 201	GEO 201 GEO 202	
Environmental Geology	0 202	GEO 202 GEO 221	
	C 102		
Physical Geography	G 102	GEOG 102	Available online at OSU
Soil Science with Lab		SOIL 205 & 206	Available online at OSU
Soil Science with Forest Soils Lab		SOIL 205 & FOR 206	
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		FES 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	Available online at OSU
Differential Calculus	MTH 251	MTH 251	Available online at OSU
Statistics	19111 231	14111 251	Available offinite at 050
Principles of Statistics	STAT 243Z	ST 243Z	Available online at OSU
•	STAT 2432		
Intro to Statistical Methods		ST 351	Available online at OSU
Animal ID		505 010	
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	
Planning Principles for Resilient Communities		GEOG 450 GEOG 451	
Sustainable Site Planning		GEOG 451 GEOG 452	Available online at OSU
Wildland restoration and Ecology		RNG 421	Available online at OSU
57			
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
Custainable Communities		SUS 350	Available online at OSU
Sustainable Communities			
Planning for Sustainable Recreation		TRAL 456	
		TRAL 456 TRAL 457	

<b>NR Core Requirements</b> (continued) Complete one course per category	BMCC 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		OC 201	Available online at OSU
Coastal Oceanography		OC 332	
Forestry			
International Forestry		FE/FOR 456	
Forest Biology		FES 240	Available online at OSU
		FES 341	Available online at OSU
Forest Ecology			
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
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 393	Available online at OSU
		SUIL 400	
Range		550 440	
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			
BMCC Course: Systemic Botany	BOT 221	BOT 321 LD	
Plant Systematics		BOT 321	
Agrostology		BOT 414	
Flora of the Pacific Northwest		BOT 425	
		BOT461	Available online at OSU
Mycology			
Mycology Dendrology		FES 241	Available online at OSU
Dendrology		FES 241 HORT 226	Available online at OSU Available online at OSU

Complete one course per category <b>Vildlife Management</b> ntroductory Population Dynamics Applied Community and Ecosystem Ecology Vildlife in Agricultural Ecosystems		OSU Course	Notes
ntroductory Population Dynamics Applied Community and Ecosystem Ecology Vildlife in Agricultural Ecosystems			
Applied Community and Ecosystem Ecology Vildlife in Agricultural Ecosystems		FW 320	Available online at OSU
Vildlife in Agricultural Ecosystems		FW 321	Available online at OSU
		FW 435	
			Available online at OSU
vian Conservation and Management		FW 451	Available online at OSU
Biodiversity Conservation in Managed Forests		FES/FW 452	Available online at OSU
Iammal Conservation and Management		FW 458	Available online at OSU
Vildlife Ecology		FW 481	Available online at OSU
Animal Behavior		Z 350	Available online at OSU
thics & Philosophy	1		
cosystems Science of the PNW Indians		AG 301	Available online at OSU
Anthropology, Health, and the Environment		ANTH 352	Available online at OSU
cological Anthropology		ANTH 477	Available online at OSU
Natural Resources and Community Values		ANTH 481	Available online at OSU
Anthropology of International Development		ANTH 482	
Iulticultural Perspectives in NR		FW 340	Available online at OSU
ransforming Environmental Conflicts		GEOG 241	
Invironmental Justice		GEOG 330	Available online at OSU
Invironmental 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
invironmental Ethics		PHL 440	Available online at OSU
Vorld View and Environmental Values		PHL/REL 443	Available online at OSU
Sustainability, Justice, and Engagement			
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	
			Available online at OSU
ish & Wildlife Law and Policy		FW 415	
ntroduction to Ocean Law		FW 422	Available online at OSU
J.S. Energy Policy		PS 473	Available online at OSU
Invironmental Politics and Policy		PS 475	Available online at OSU
nternational 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
		NR 351	Available online at 050
When Science Escapes the Lab			Ausilable enline at OCU
he Politics of Climate Change		PS 455	Available online at OSU
Invironmental Politics and Policy		PS 475	Available online at OSU
Science and Politics		PS 476	Available online at OSU
nternational Environmental Politics & Policy		PS 477	Available online at OSU
Vilderness Management		TRAL 352	Available online at OSU
Economics	1		
ntro to Environmental Economics & Policy		AEC 250	Available online at OSU
ntro to Microeconomics	EC 201	ECON 201	Available online at OSU
	LC 201	LCON 201	Available offinite at 050
		DT DO I	
luman Impacts on Ecosystems		BI 301	
luman Ecology		BI 348	
ssues 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	
		GEOG 430	
Resilience-Based Natural Resource Mgmt		GEOG 431	
Resilience-Based Natural Resource Mgmt Global Resource Development		NR 351	
Resilience-Based Natural Resource Mgmt Global Resource Development Vhen Science Escapes the Lab		OC 333	Available online at OSU
Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab Oceans, Coasts & People			
Resilience-Based Natural Resource Mgmt Global Resource Development Vhen Science Escapes the Lab		SOC 381	Available online at OSU
Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab Oceans, Coasts & People Social Dimensions of Sustainability			Available online at OSU
Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab Oceans, Coasts & People Social Dimensions of Sustainability Rural Sociology		SOC 475	
Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab Oceans, Coasts & People Social Dimensions of Sustainability Rural Sociology Environmental Sociology		SOC 475 SOC 480	Available online at OSU
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		SOC 475 SOC 480 SOC 481	Available online at OSU Available online at OSU
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 Social Dimensions of Sustainability		SOC 475 SOC 480 SOC 481 SUS 420	Available online at OSU Available online at OSU Available online at OSU
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 Social Dimensions of Sustainability Recreation Resource Management		SOC 475 SOC 480 SOC 481 SUS 420 TRAL 251	Available online at OSU Available online at OSU
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 Social Dimensions of Sustainability		SOC 475 SOC 480 SOC 481 SUS 420	Available online at OSU Available online at OSU Available online at OSU

Social Issues (continued)		
Wilderness Management	TRAL 352	Available online at OSU
Nature, Eco, and Adventure Tourism	TRAL 353	
Communities, Natural Areas, and Tourism	TRAL 354	Available online at OSU
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	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 Fish & Wildlife Conservation Option**

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Requirement			
Complete one course per category unless	BMCC Course	OSU Course	Notes
otherwise noted.			
Measurements			
Field Methods in Ecological Restoration		BI 375	
Field Sampling of Fish & Wildlife		FW 255	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	
Rangeland Analysis		RNG 441	Available online at OSU
Forest Types of the Northwest		FES 342	
Introduction to Forestry		FOR 111	Available online at OSU
Wildland Fire Ecology		FES 440	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
Biodiversity Conservation in Managed Forests		FES/FW 452	Available online at OSU
Conservation Genetics		FW 370	Available online at OSU
Principles of Fish & Wildlife Conservation		FW 251	Available online at OSU
Fish & Wildlife Biology – complete 3			
Biology of Marine Mammals		FW 302	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
Ecology of Marine and Estuarine Birds		FW 331	
Fish Ecology		FW 473	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Environmental Physiology		Z 423	Available online at OSU
Herpetology		Z 473	
Habitat Management – complete 2			
Ecological Restoration		FES/FW 445	Available online at OSU
Integrated Watershed Management		FW 326	Available online at OSU
Coastal Ecology and Resource Management		FW 426	Available online at OSU
Estuarine Ecology		FW/OC 434	Available online at OSU
Wildlife in Agricultural Ecosystems		FW 435	Available online at OSU
Freshwater Ecology and Conservation		FW 456	Available online at OSU
Wetlands and Riparian Ecology		FW 479	Available online at OSU
Rangeland Ecology and Management		RNG 341	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
Natural Resource Policy		556 406	
Public Lands Policy and Management		FES 486	Available online at OSU
Endangered Species, Soc and Sustainability		FW 350	Available online at OSU
Fisheries and Wildlife Law and Policy		FW 415	Available online at OSU
Human Dimensions in Fish & Wildlife Mgmt		FW 439	Available online at OSU
Natural Resource Policy and Law	1	FOR 462	

Requirement			
Complete one course per category unless	BMCC Course	OSU Course	Notes
otherwise noted.			
Electives – complete 1			
Oceans in Peril		BI 347	
Intro to Plant Pathology		BOT 220	Available online at OSU
Plant Systematics		BOT 321	Available online at OSU
Fungi in Society		BOT 324	Available online at OSU
Plant Ecology		BOT 341	Available online at OSU
Mycology		BOT 461	Available online at OSU
Aquatic Biological Invasions		FW 421	Available online at OSU
Environmental Case Studies		ENSC 321	Available online at OSU
Human Dimensions in Fish & Wildlife Mgmt		FW 439	Available online at OSU
Mgmt Principles of Pacific Salmon in NW		FW 323	Available online at OSU
Environmental Contaminants in F&W		FW 366	Available online at OSU
Environmental Physiology of Fishes		FW 371	
Natural History of Whales and Whaling		FW 419	Available online at OSU
Principles of Wildlife Disease		FW 427	Available online at OSU
Avian Conservation and Management		FW 451	Available online at OSU
Fishery Biology		FW 454	Available online at OSU
Ecosystems Services		FW 462	Available online at OSU
Antarctic Science and Conservation		FW 467	
Phys and Behavior of Marine Megafauna		FW 469	Available online at OSU
Early Life History Fishes		FW 474	
Wildlife Behavior		FW 475	Available online at OSU
Fish Physiology		FW 476	Available online at OSU
Aquaculture		FW 497	Available online at OSU
Aquaculture Laboratory		FW 498	
Scientific Methods for Analyzing NR Problems		NR 325	
Oceans, Coasts, and People		OC 333	
Biological Oceanography		OC 340	
Habitat Analysis I		RNG 457	
Biodiv: Causes, Consequences, Conservation		Z 349	Available online at OSU
Animal Behavior		Z 350	Available online at OSU
Biology of Insects		Z 365	
Aquatic Entomology		Z 477	

# 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-</u> <u>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 visitosu organistate edu/visit-campus to schedule your personalized visit.

visitosu.oregonstate.edu/visit campus 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	