TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

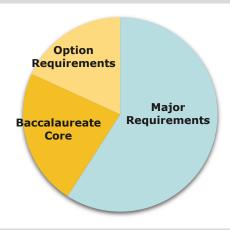
Treasure Valley Community College

Natural Resources Major with Ecological Restoration Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations.

NR students completing this option will understand the complexities associated with restoration of terrestrial and aquatic ecosystems, and how restorative decisions involve significant interactions between ecological and social systems.

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.
- forestry.oregonstate.edu/undergraduateprograms/natural-resources/ecological-restoration

Courses Required for Natural Resources Major

NR Core Requirements Complete one course per category	TVCC Course	OSU Course	Notes
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future	NATR 111	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 Intercultural Communication Non-Verbal Communication Communication and Culture in Cyberspace Theories of Conflict and Conflict Management Bargaining and Negotiating Processes Forest as Classroom		AG 351 COMM 321 COMM 322 COMM 324 COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 FES 430	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Effective Comm of Environmental Change Sci Critical thinking for NR Challenges Environmental Interpretation Science Writing Environmental Writing Biology I Introduction to Biology I Principles of Biology: Cells	BIOL 211	GEOG 453 NR 312 TRAL 493 WR 362 WR 462 BI 204 BI 221	Available online at OSU Available online at OSU Available online at OSU Available online at OSU



NR Core Requirements (continued) Complete one course per category	TVCC Course	OSU Course	Notes
Biology II			
Introduction to Biology II		BI 205	Available online at OSU
Principles of Biology: Organisms	BIOL 213	BI 222	/ (Valiable of life at 656
Biology III			
Introduction to Biology III		BI 206	Available online at OSU
Principles of Biology: Populations	BIOL 212	BI 223	Available offine at 656
Chemistry	DIOL 212	B1 223	
General Chemistry I with Lab	CHEM 121	CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CHEM 221	CH 231 & 261	Available online at OSU
Climate Science	CHEMIZZI	C11 251 Q 201	Available offine at 656
Climate Science		ATS 201	Available online at OSU
Global Change Biology		FW 345	Available offilite at 030
		GEOG 323	Available online at OSU
Climatology			
Intro to Climate Change		SUS 103	Available online at OSU
Soil Science		CCC 20E	Aveilable estima at OCU
Soil Science	666 305	CSS 205	Available online at OSU
Soil Science with Lab	CSS 205	SOIL 205 & 206	
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	MATH 112Z	MTH 112Z	Available online at OSU
Calculus for Mgmt, Life, and Social Science	MATH 241	MTH 241	Available online at OSU
Math for Mgmt, Life, and Social Science		MTH 245	Available online at OSU
Differential Calculus	MATH 251	MTH 251	Available online at OSU
Statistics	100011231	11111231	7.Vullable offilite at 656
Principles of Statistics	STAT 243Z	ST 243Z	Available online at OSU
Intro to Statistical Methods	STAT 2432	ST 351	Available online at OSU
Animal ID		31 331	Available offilite at 030
		EOD 210	
Terrestrial Vertebrate ID & Natural History		FOR 210 FES 412	
Forest Entomology		_	A
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 451	Available online at OSU
Sustainable Site Planning		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
Sustainablicy Assessment Sustainable Communities		SUS 350	Available online at OSU
			Available offille at 050
Planning for Sustainable Recreation		TRAL 456	
			Assettable as the set OCC
Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems		TRAL 457 NR 325	Available online at OS

NR Core Requirements (continued) Complete one course per category	TVCC 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	GSCI 108	OC 201	Available online at OSU
Coastal Oceanography	0001100	OC 332	Available offine at 656
Forestry		36 332	
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 443	Available online at OSU
Agroforestry		FES/NR 477	Available offille at 030
Topics in Wildland Fire		FOR 346	Available online at OSU
Silviculture Principles		FOR 441	Available offilite at 030
Land & Water		100 441	
TVCC Course: Intro to Watershed Mgmt.	NATR 218	NR LDT	
Watershed Processes	NATE 210	FE 430	Available online at OSU
Forest Watershed Management		FE 434	Available offille at 030
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	Available offine at 050
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
		3012 400	Available offine at 050
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	NATR 241	RNG 341	Available online at OSU
Range Ecology I – Grasslands	NATE 241	RNG 351	Available online at OSU
Range Ecology II – Grasslands Range Ecology II – Shrub Lands		RNG 351	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	Available online at OSU
Rangeland Management and Planning		RNG 442	Available online at OSU
Vegetation ID		INIO 490	Available offilite at 030
TVCC Course: Applied Botany	NATR 103		
Plant Systematics	INVIK 102	BOT 321	Available online at OSU
		BOT 414	Available Utilitie at USU
Agrostology Flora of the Pacific Northwest		BOT 414	
		BOT 425	Available online at OSU
Mycology		FES 241	Available online at OSU Available online at OSU
Dendrology		HORT 226	Available online at OSU Available online at OSU
Landscape Plant Materials I: Decid & Conifers Landscape Plant Materials II: Shrubs		HORT 228	Available online at OSU Available online at OSU
Wildland Plant Identification	<u> </u>	RNG 353	Available online at OSU

NR Core Requirements (continued)			
Complete one course per category	TVCC Course	OSU Course	Notes
Wildlife Management			
Principles of Fish & Wildlife Conservation	NATR 252	FW 251	Available online at OSU
Introductory Population Dynamics	NATR 232	FW 320	Available online at OSU
Applied Community and Face steem Feelens			
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	Available offine de 656
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		303 331	Available offilite at 030
Environmental Law		AEC 432	Available online at OSU
Public Lands Policy & Management		FES 486 FOR 460	Available online at OSU
Forest Policy			
Forest Policy Analysis		FOR 461	A
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	ECON 201	ECON 201	Available online at OSU
That o to The occonomics	200.4 201	20014 201	7.17 dilable offilite at 050

NR Core Requirements (continued) Complete one course per category	TVCC 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	NATR 251	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	GEOG 265	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 285	GEOG 360	Available online at OSU

Courses Required for Ecological Restoration Option

3 3 3 4 3 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5			
Requirement Complete one course per category unless otherwise noted	TVCC Course	OSU Course	Notes
Measurements			
Field Methods in Ecological Restoration Field Methods in Plant Ecology Scientific Methods for Analyzing NR Problems Rangeland Analysis		BI 375 BOT 440 NR 325 RNG 441	Available online at OSU Available online at OSU Available online at OSU
Resource Economics			
Natural Resources Economics & Policy Environmental Economics & Policy Intro to Coastal & Marine Resource Econ Rural Development Economics & Policy Forest Resource Economics I		AEC 351 AEC/ECON 352 AEC 353 AEC 454 FOR 329	Available online at OSU Available online at OSU Available online at OSU
Economics & Policy of Wildland Fire		FOR 431	Available online at OSU
Plant Systematics Plant Ecology		BOT 321 BOT 341	Available online at OSU Available online at OSU
General Chemistry II with Lab General Chemistry II with Lab (for majors)	CHEM 122 CHEM 222	CH 122 CH 232 & 262	Available online at OSU Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Wetlands and Riparian Ecology		FW 479	Available online at OSU
Riparian Ecohydrology and Management		RNG 455	Available online at OSU
Land Use in the American West		GEOG 450	A situation of a contract
Planning Prin & Pract for Resilient Community		GEOG 451	Available online at OSU
Sustainable Site Planning Ecosystems of Wildland Soils		GOEG 452 SOIL 366	Available online at OSU Available online at OSU
Soil System and Plant Growth		SOIL 388	Available online at OSU
Soil Morphology and Classification		SOIL 466	Available online at OSU
Social & Ethical Considerations		3312 .00	7. Valuasie Gilline de GGG
Urban Forestry Econ and Policy of Forest Wildland Fire Critical Thinking for NR Challenges Environmental Ethics World Views and Environmental Values Environmental Sociology Society and Natural Resources Sustainability, Justice, and Engagement		FES/HORT 350 FOR 431 NR 312 PHL 440 PHL/REL 443 SOC 480 SOC 481 SUS 331	Available online at OSU
Ecological & NR Electives - 2 classes		303 331	Available offiline at 050
Marine Ecology Environmental Physiology of plants Wildland Fire Ecology Wildland Fire Science & Management Biodiversity Cons in Managed Forests		BI 351 BOT 488 FES 440 FOR 436 FES/FW 452	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Silviculture Principles Introductory Population Dynamics Coastal Ecology and Resource Management Avian Conservation and Management Fishery Biology Freshwater Ecology and Conservation Mammal Conservation and Management Fish Ecology		FOR 441 FW 320 FW 426 FW 451 FW 454 FW 456 FW 458 FW 473	Available online at OSU
Wildlife Ecology Rangeland Ecology and Management Wildland Restoration and Ecology Soil Landscape Analysis Biodiversity: Causes, Consequences, Conserv Environmental Physiology	NATR 241	FW 481 RNG 341 RNG 421 SOIL 468 Z 349 Z 423	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 TVCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-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 @ TVCC
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: ECON 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.

Treasure Valley Community College	Marcus Nichols, Natural Resources Faculty 541-881-5968 mnichols@tvcc.cc
OSU College of Forestry	541-737-1594
Student Services Office	forestrystudentservices@oregonstate.edu