TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS ECAMPUS

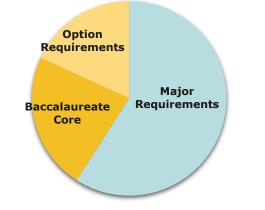
Umpqua Community College

Natural Resources Major with Landscape Analysis 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 to work with Geographic Information Science (GIS) technology

in a Natural Resource field such as wildfire ecology, land use planning, ecological restoration, etc. In addition, students will earn an undergraduate certificate in GIScience.

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/landscape-analysis

Courses Required for Natural Resources Major

NR Core Requirements	UCC Course	OSU Course	Notes
Complete one course per category Consensus and Natural Resources		FES 485	Available online at OSU
	FOD (ND 201		
Managing Nat Res for the Future	FOR/NR 201	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			
UCC Course: Enrivon. Dispute Resolution	NR 295	FES LDT	
Intro to Communication Theory		COMM 321	
Small Group Problem Solving		COMM 322	
Communication in Organizations		COMM 324	
Intercultural Communication		COMM 326	Available online at OSU
Non-Verbal Communication		COMM 328	Available online at OSU
Communication and Culture in Cyberspace		COMM 385	
Theories of Conflict and Conflict Management		COMM 440	
Bargaining and Negotiating Processes		COMM 442	Available online at OSU
Forest as Classroom		FES 430	Available online at OSU
Effective Comm in Fish & Wildlife Sciences		FW 489	
Critical thinking for NR Challenges		NR 312	Available online at OSU
Environmental Interpretation		TRAL 493	Available online at OSU
Technical Writing	WR 227	WR 327	Available online at OSU
Science Writing		WR 362	
Environmental Writing		WR 462	
Professional Writing		WR 466	
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 212	BI 221	



NR Core Requirements (continued)	UCC Course	OSU Course	Notes
Complete one course per category			
Biology II General Biology II with Lab Introduction to Biology II	BI 102	BI 102 BI 205	Available online at OSU Available online at OSU
Principles of Biology: Organisms	BI 213	BI 222	
Biology III			
General Biology III with Lab	BI 103	BI 103	Available online at OSU
Introduction to Biology III		BI 206	Available online at OSU
Principles of Biology: Populations	BI 211	BI 223	
Chemistry			
General Chemistry I with Lab	CH 221	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	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 Science			
The Solid Earth	0.001	GEO 101	Available online at OSU
Physical Geology	G 201	GEO 201	
Earth Systems Science	G 202	GEO 202	
Environmental Geology	G 221	GEO 221	Available online at OSU
Physical Geography		GEOG 102	Available online at OSU
Ecology Marine Factory		DI 251	Available entire at OCU
Marine Ecology		BI 351 BI 370	Available online at OSU
General Ecology		BOT 341	Available online at OSU Available online at OSU
Plant Ecology Forest Ecology		FES 341	Available online at OSU
Mathematics		FL3 341	Available offinite at 050
Elementary Functions	MTH 112	MTH 112	Available online at OSU
Calculus for Mgmt, Life, and Social Science		MTH 241	Available online at OSU
Math for Mgmt, Life, and Social Science		MTH 245	Available online at OSU
Differential Calculus		MTH 251	Available online at OSU
Statistics			
Principles of Statistics	MTH 243	ST 201	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			Available antire at OCU
Ecological Restoration		FES/FW 445	Available online at OSU
Ecosystems Services		FW 462	Available online at OSU Available online at OSU
Land Use Planning for Sust. Communities		GEOG 250 GEOG 450	Available online at USU
Land Use in the American West Planning Principles for Resilient Communities		GEOG 450 GEOG 451	
Sustainable Site Planning		GEOG 451 GEOG 452	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	
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	
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NR Core Requirements (continued) <i>Complete one course per category</i>	UCC 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
		BI 351	Available online at OSU
Marine Ecology			
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
Marine Fisheries		FW 465	
Fish Ecology		FW 473	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
	GS 147		
Oceanography	GS 147	OC 201	Available online at OSU
Coastal Oceanography		OC 332	
Forestry			
International Forestry		FE/FOR 456	
Forest Biology	FOR/NR 240	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
Jrban 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		101 441	
	ND 221		
UCC Course: Water Resource Mgmt.	NR 221	GEO LDT	
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
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Minerals, Energy, Water and the Environment	0.010	GEO 306	Available online at OSU
National Park Geology and Preservation	G 213	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
Desert Water Shed Management		RNG 355	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			
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
			Available online at OSU
Rangeland-Animal Relations		RNG 442	
Rangeland Management and Planning		RNG 490	Available online at OSU
Vegetation ID			
UCC Course: Flowering Plants of SW Oregon	BOT 204	BOT LDT	
Plant Systematics		BOT 321	
Agrostology		BOT 414	
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Flora of the Pacific Northwest		BOT 425	Available online at OSU
Dendrology	FOR/NR 241	FES 241	Available online at OSU
Landscape Plant Materials I: Decid & Conifers		HORT 226	Available online at OSU
	1	HORT 228	Available online at OSU
Landscape Plant Materials II: Shrubs		101(1 220	

NR Core Requirements (continued) Complete one course per category	UCC Course	OSU Course	Notes
Wildlife Management			
Principles of Fish & Wildlife Conservation	NR 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
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 481	
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 online at 030
Nature in Storytelling over the Centuries		NR 312 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
		SUS 331	Available online at OSU
Sustainability, Justice & Engagement Natural Resource Policy		505 551	Available offine at 050
Environmental Law		AEC 432	Available online at OSU
Rural Development Economics & Policy		AEC 452	Available online at OSU
Rural Development Economics & Policy		FES 486	Available online at OSU
Public Lands Policy & Management		FOR 460	Available online at USU
Forest Policy			
Natural Resources Policy and Law		FOR 462	Ausilable antine at OCU
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
Natural Resource Policy and Law		FOR 462	
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

NR Core Requirements (continued) Complete one course per category	UCC Course	OSU Course	Notes
•	FOR/NR 261	BI 301 BI 348 FES 365 FW 325 GEOG 300 GEOG 240 GEOG 241 GEOG 430 GEOG 431 NR 351 OC 333 SOC 381 SOC 475 SOC 480 SOC 481 SUS 420 TRAL 251 TRAL 351 TRAL 352 TRAL 353 TRAL 354	Available online at OSU Available online at OSU
Parks & Protected Areas Women and Natural Resources Spatial Analysis Waived for Landscape Analysis students		TRAL 357 WGSS 440	Available online at OSU

Courses Required for Landscape Analysis Option

Requirement Complete one course per category unless otherwise noted	UCC Course	OSU Course	Notes
Measurements			
Forest Surveying	FOR/SUR 161	FE 208	Available online at OSU
Foundations of Geospatial Science & GIS	GIS 203	GEOG 201	Available online at OSU
Civil Engr: Geospatial Info & GIS		CE 202	
GIS & Forest Engineering Applications	FOR/GIS 234	FE 257	
Geoscience I: GIS Systems & Theory		GEOG 360	Available online at OSU
Geo-visualization: Cartography		GEOG 370	Available online at OSU
Forestry Remote Sensing & Photogrammetry		FE 444	
Remote Sensing I: Principles & Applications		GEOG 380	Available online at OSU
GIS Electives – choose two courses GIS in Water Resources Precision Agriculture Internship Forest Photogrammetry & Remote Sensing Forest Route Surveying Unmanned Aircraft Systems Remote Sensing Forestry Remote Sensing & Photogrammetry Survey of Geographic Information Systems GIScience II: Analysis & Applications Geovisualization: Web Mapping Plan Prin and Pract for Resilient Communities GIScience III: Programming for Geo. Analysis GIScience IV: Spatial Modeling Geospatial Perspectives Geo-visualization: Geo-visual Analytics	FOR/SUR 209 SUR 163	CE 413 CROP/HORT 414 NR 410 FE 209 FE 310 FE 423 FE 444 FW 303 GEOG 361 GEOG 361 GEOG 451 GEOG 451 GEOG 462 GEOG 463 GEOG 464 GEOG 472	Available online at OSU Available online at OSU
Remote Sensing II: Digital Image Processing Soil Landscape Analysis NR Electives – 11-14 credits Courses related to GIScience and Natural Resources		GEOG 481 SOIL 468	

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 UCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-</u> equivalencies-umpqua-community-college

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 112 or higher WR 121. Required to transfer. Can be completed as part of major: see advisor Choose one course from Bacc Core link above HPE 295 @ Umpqua
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.

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OSU College of Forestry Prospective Student Advisor	Autumn VanderLinden 541-737-9135 Autumn.VanderLinden@oregonstate.edu