TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

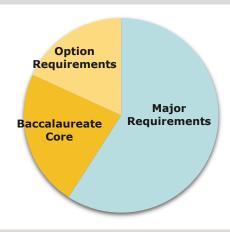
Shasta College

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 124 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	Shasta Course	OSU Course	Notes
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future	AGNR 1	NR 201	Available online at OSU
Natural Resources Decision Making		NR 455	Available online at OSU
Advanced Communication:			
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 in Fish & Wildlife Sciences		FW 489	Available online at OSU
Critical thinking for NR Challenges		NR 312	
Environmental Interpretation		TRAL 493	Available online at OSU
Technical Writing		WR 327	Available online at OSU
Science Writing		WR 362	Available online at OSU
Environmental Writing		WR 462	
Professional Writing		WR 466	
Biology I			
Introduction to Biology I		BI 204	Available online at OSU
Principles of Biology I with Lab		BI 211	



NR Core Requirements (continued) Complete one course per category	Shasta Course	OSU Course	Notes
Biology II Introduction to Biology II		BI 205	Available online at OSU
Principles of Biology II with Lab	BIOL 1	BI 212	Available offillie at 050
Biology III		DI 206	Available suline at OCH
Introduction to Biology III Principles of Biology III with Lab		BI 206 BI 213	Available online at OSU
Chemistry			
General Chemistry I with Lab General Chemistry (Majors) I with Lab	CHEM 1A	CH 121 CH 231 & 261	Available online at OSU Available online at OSU
Climate Science	CHETTER		
Climate Science Global Change Biology		ATS 201 FW 345	Available online at OSU
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		CSS 305	Available offine at 050
Soil Science with Lab	AGPS 24	SOIL 205 & 206	
Soil Science with Forest Soils Lab Ecology		SOIL 205 & FOR 206	
Marine Ecology		BI 351	Available online at OSU
General Ecology Plant Ecology		BI 370 BOT 341	Available online at OSU Available online at OSU
Mathematics		BOT 341	Available offilite at 030
Elementary Functions	MATH 2A	MTH 112	Available online at OSU
Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science	MATH 9 MATH 9	MTH 241 MTH 245	Available online at OSU Available online at OSU
Differential Calculus	MATH 3A	MTH 251	Available online at OSU
Statistics	MATIL 14	CT 201	Available enline at OCH
Principles of Statistics Intro to Statistical Methods	MATH 14	ST 201 ST 351	Available online at OSU Available online at OSU
Animal ID			
Systematics of Birds Systematics of Fishes		FW 312 FW 316	Available online at OSU
Systematics of Mammals		FW 318	Available online at OSU
Biology of Insects		Z 365	Available online at OSU
Herpetology Aquatic Entomology		Z 473 Z 477	Available online at OSU
Environ. Assessment & Planning			
Ecological Restoration Ecosystems Services		FES/FW 445 FW 462	Available online at OSU 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
Rangeland Management and Planning		RNG 490	Available online at OSU
Sustainability Assessment Sustainable Communities		SUS 304 SUS 350	Available online at OSU Available online at OSU
Planning for Sustainable Recreation		TRAL 456	
Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems		TRAL 457 NR 325	
Fish & Marine Sciences		IVIX JZJ	
Intro to Marine Biology		BI 150	
Biology of Marine Mammals Oceans in Peril		FW 302 BI 347	Available online at OSU Available online at OSU
Marine Ecology		BI 351	Available online at OSU
Intro to Population Dynamics Maret Principles of Pacific Salmon in the NW		FW 320	Available online at OSU
Mgmt Principles of Pacific Salmon in the NW Coastal Ecology and Resource Management		FW 323 FW 426	Available online at OSU Available online at OSU
Fishery Biology		FW 454	Available online at OSU
Marine Fisheries Fish Ecology		FW 465 FW 473	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Oceanography	ESCI 15	OC 201	Available online at OSU
Coastal Oceanography	<u> </u>	OC 332	<u> </u>

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World View and Environmental Values PHL/REL 443 Available online at OSU			PHL 440	Available online at OSU
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NR Core Requirements (continued)			
Complete one course per category	Shasta Course	OSU Course	Notes
Natural Resource Policy			
Shasta Course: Environmental Policy & Law	AGNR 12	FES LDT	
Environmental Law		AEC 432	Available online at OSU
Rural Development Economics & Policy		AEC 454	Available online at OSU
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy		FOR 460	
Natural Resources Policy and Law		FOR 462	
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
Resource Economics			
Natural Resource Economics and Policy		AEC 351	Available online at OSU
Environmental Economics and Policy		AEC/ECON 352	Available online at OSU
Rural Development Economics and Policy		AEC 454	Available online at OSU
Forest Resource Economics I		FOR 329	
Social Issues			
Management for Multiple Resource Values		FES 355	Available online at OSU
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	
Resilience-Based Natural Resource Mgmt		GEOG 430	
Global Resource Development		GEOG 431	
When Science Escapes the Lab		NR 351	A situation of occur
Social Dimensions of Sustainability		SOC 381	Available online at OSU
Rural Sociology		SOC 475	A ilabla anlina at OCH
Environmental Sociology		SOC 480	Available online at OSU
Society and Natural Resources		SOC 481	Available online at OSU
Social Dimensions of Sustainability		SUS 420 TRAL 251	Available online at OSU
Recreation Resource Management		_	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	Available online at OSU
Wilderness Management Nature, Eco, and Adventure Tourism		TRAL 352	Available offille at USU
Communities, Natural Areas, and Tourism		TRAL 353 TRAL 354	
Women and Natural Resources		WGSS 440	Available online at OSU
Spatial Analysis		VV 000 TT0	Available offilite at 030
Precision Agriculture		CROP/HORT 414	Available online at OSU
GIS and Forest Engineering Applications	GEOG 13	FE 257	Available online at OSU
Survey of Geographic Information Systems	020013	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
Geografice 1. G15 and Theory	1	1 3203 300	Available offille at 050

Courses Required for Forest Ecosystems Option

Requirement Complete one course per category unless	Shasta Course	OSU Course	Notes
otherwise noted	Shasta course	oso 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	/ Wallable of life at 555
Forest Ecology		FES 341	Available online at OSU
Forest Entomology		FES 412	7. Valiable offine de 656
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 offille at 030
Wildland Fire Science & Management		FOR 415	Available online at OSU
		FOR 436	Available offille at 050
Silviculture Principles		FUR 441	
Ecology Breath – choose two classes		DOT 221	
Plant Systematics		BOT 321	Aveilelle enline et OCH
Plant Ecology		BOT 341	Available online at OSU
Flora of the Pacific Northwest		BOT 425	
Forest Watershed Management		FE 434	Augilahla anlina at OCH
Ecological Restoration		FES/FW 445	Available online at OSU
Agroforestry		FES/NR 477	Aveilelle enline et OCH
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
Herpetology		FW 473	Available enline at OCH
Wildlife Ecology		FW 481	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	Aveilelle enline et OCH
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
Technical Electives – choose two classes		FF 200	A - 11-11 11 1 OCH
Forest Surveying	CEOC 15	FE 208	Available online at OSU
Forest Photogrammetry & Remote Sensing	GEOG 15	FE 209	
Harvesting Operations		FE 370	
Forestry Remote Sensing & Photogrammetry		FE 444	Assettable and seed of OCH
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.

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 HHS 231 & 241/PAC Course
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 or AEC 250 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.

Shasta College	Melissa Markee, Forestry & Natural Resources Instructor 530-242-2298 mmarkee@shastacollege.edu
OSU College of Forestry Prospective Student Advisor	Autumn Granger 541-737-9135 Autumn.granger@oregonstate.edu