TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

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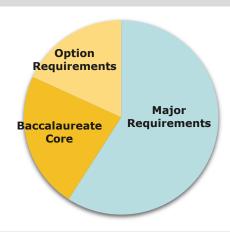
Klamath Community College

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

Courses Required for Natural Resources Major

NR Core Requirements Complete one course per category	KCC 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	Available online at OSU
Biology I			
Introduction to Biology I		BI 204	Available online at OSU
Principles of Biology: Cells	BIO 211 & BIO 211L	BI 221	



NR Core Requirements (continued) Complete one course per category	KCC Course	OSU Course	Notes
Biology II			
Introduction to Biology II		BI 205	Available online at OSU
Principles of Biology: Organisms	BIO 213 & BIO 213L	BI 222	
Biology III			
Introduction to Biology III		BI 206	Available online at OSU
Principles of Biology: Populations	BIO 212 & BIO 212L	BI 223	7.174.1142.12 01.11.12 42 000
Chemistry			
General Chemistry I with Lab		CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CHE 221 & CHE 221L	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
Soil Science		000 100	7.174.114.21.2 31.11.12 42 33 3
Soil Science		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		3	
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		201311	/ (Valiable offinite at 000
Elementary Functions	MTH 112Z	MTH 112Z	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	MTH 251	Available online at OSU
Statistics			
Principles of Statistics	STA 243Z	ST 243Z	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			
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
Sustainable Communities		SUS 350	Available online at OSU
Planning for Sustainable Recreation		TRAL 456	
Planning for Sustainable Tourism		TRAL 457	
Scientific Methods for Analyzing NR Problems	Ī	NR 325	Available online at OSU

NR Core Requirements (continued) Complete one course per category	KCC 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
		FW 320	
Mgmt Principles of Pacific Salmon in the NW			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	666 100 0 666 1001	FW 481	Available online at OSU
Oceanography	GSC 108 &GSC 108L	OC 201	Available online at OSU
Coastal Oceanography		OC 332	
Forestry		FE/FOR 4F6	
International Forestry	END/ 244 0 END/ 2441	FE/FOR 456	A - 11-11 11 1 - OGU
Forest Biology	ENV 241 & ENV 241L	FES 240	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Urban Forestry		FES/HORT 350	Available online at OSU
Ecological Restoration		FES/FW 445	Available online at OSU
Agroforestry		FES/NR 477	
Topics in Wildland Fire		FOR 346	Available online at OSU
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 466	Available online at OSU
Range			
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
		RNG 490	Available online at OSU
Rangeland Management and Planning Vegetation ID		INING 450	Available offille at 030
Plant Systematics		BOT 321	Available online at OSU
Agrostology		BOT 414	Available offillite at 030
Flora of the Pacific Northwest		BOT 414 BOT 425	
		BOT 425	Available online at OSU
Mycology	ENV 141	FES 241	Available online at OSU
Dendrology	LINV 141		Available online at OSU Available online at OSU
Landscape Plant Materials I: Decid & Conifers		HORT 226	
Landscape Plant Materials II: Shrubs		HORT 228	Available online at OSU
Wildland Plant Identification		RNG 353	Available online at OSU
Wildlife Management		EW 251	Assettable setting at 2000
Principles of Fish & Wildlife Conservation		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
Mammal Conservation and Management		FW 458	Available online at OSU
Wildlife Ecology		FW 481 Z 350	Available online at OSU
Animal Behavior			

NR Core Requirements (continued)	KCC 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		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	
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			
Environmental Law		AEC 432	Available online at OSU
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy		FOR 460	Available offille at 050
Forest Policy Analysis		FOR 461	
		FW 415	Available online at OSU
Fish & Wildlife Law and Policy Introduction to Ocean Law		FW 415	Available online at OSU
U.S. Energy Policy		PS 473 PS 475	Available online at OSU
Environmental Politics and Policy			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	ARE 250	AEC 250	Available online at OSU
Intro to Microeconomics	ECO 201	ECON 201	Available online at OSU
Social Issues	1		
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
		GEOG 300	Available online at OSU
Sustainability for the Common Good			Available offille at 050
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		TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	
Wilderness Management		TRAL 351	Available online at OSU
Nature, Eco, and Adventure Tourism		TRAL 352	Available offille at 050
		TRAL 353	
Communities, Natural Areas, and Tourism			Available online of OCU
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 KC	CC 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

Requirement			
Complete one course per category unless otherwise noted	KCC 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	/ wantable shimle at 555
Forest Ecology		FES 341	Available online at OSU
Forest Entomology		FES 412	7. Valiable 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 413	Available online at OSU
		FOR 436	Available offille at 050
Silviculture Principles Ecology Breath - choose two classes		FOR 441	
		POT 221	
Plant Systematics		BOT 321	Aveilable enline at OCII
Plant Ecology		BOT 341	Available online at OSU
Flora of the Pacific Northwest		BOT 425 FE 434	
Forest Watershed Management			Aveilable enline at OCII
Ecological Restoration		FES/FW 445	Available online at OSU
Agroforestry		FES/NR 477	Accellate antina at OCH
Principles of Fish & Wildlife Conservation		FW 251	Available online at OSU
Ornithology		FW 311	Available online at OSU
Ichthyology		FW 315 FW 317	Available online at OSU Available online at OSU
Mammalogy			
Introductory Population Dynamics		FW 320 FW 321	Available online at OSU
Applied Community and Ecosystem Ecology Avian Conservation and Management			Available online at OSU
Freshwater Ecology and Conservation		FW 451 FW 456	Available online at OSU Available online at OSU
3,		FW 458	Available online at OSU
Mammal Conservation and Management		FW 473	Available offille at 050
Fish Ecology		FW 473	Available online at OSU
Wildlife Ecology Scientific Methods for Analyzing NR Problems		NR 325	Available offille at 030
Range Ecology I – Grasslands		RNG 351	Available online at OSU
Range Ecology II – Grassianus Range Ecology II – Shrublands		RNG 351	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		2 473	Available offine at 050
Forest Surveying		FE 208	Available online at OSU
Forest Photogrammetry & Remote Sensing		FE 209	Available offilite at 030
GIS & Forest Engineering Applications		FE 257	Available online at OSU
Harvesting Operations		FE 370	Available offillie at 050
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 I		ST 352	Available online at OSU
That to Statistical Methods II		J1 JJ2	Available offille at 030

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

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 @ KCC
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: ECO 201 or ARE 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.

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OSU College of Forestry	541-737-1594
Student Services Office	forestrystudentservices@oregonstate.edu