

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

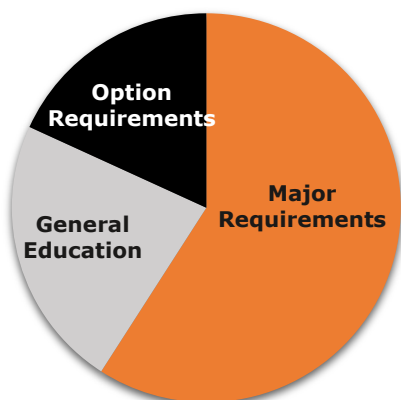
**Linn-Benton
Community College**

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.
- [More info forestry.oregonstate.edu/undergraduate-programs/natural-resources/landscape-analysis](http://moreinfo.forestry.oregonstate.edu/undergraduate-programs/natural-resources/landscape-analysis)

Courses Required for Natural Resources Major

NR Core Requirements	LBCC Course	OSU Course	Notes
<i>Complete one course per category</i>			
Managing Nat Res for the Future		NR 201	Available online at OSU
Natural Resource Problems & Solutions		NR 202	Available online at OSU
Consensus and Natural Resources		FES 485	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
Social Media Advocacy in Ag Sci & Nat Res		AG 445	Available online at OSU
Risk & Crisis Communication in Ag Sci & NR		AG 455	
Small Group Communication		COMM 222	
Intercultural Communication		COMM 226	Available online at OSU
Communication in Organizations		COMM 324	
Non-Verbal Communication		COMM 328	
Communication in Cyberspace		COMM 385	Available online at OSU
Theories of Conflict and Conflict Management		COMM 440	
Bargaining and Negotiating Processes		COMM 442	
Environmental Case Studies		ENSC 321	Available online at OSU
Forest as Classroom		FES 430	Available online at OSU
Maps, Media and Communication		GEOG 202	
Effective Comm of Environmental Change Sci		GEOG 453	
Critical thinking for NR Challenges		NR 312	
Environmental Interpretation		TRAL 493	Available online at OSU
Technical Writing		WR 227Z	Available online at OSU
Advanced Writing & Argumentation		WR 323	Available online at OSU
Science Writing		WR 362	Available online at OSU
Writing for the Natural Sciences		WR 375	Available online at OSU
Environmental Writing		WR 462	Available online at OSU



**Oregon State
University**

NR Core Requirements <i>Complete one course per category</i>	LBCC Course	OSU Course	Notes
Writing Intensive Course Ag and Environmental Predicaments Environmental Case Studies Public Lands Policy and Management Forest Policy and Regulation Aquaculture Climatology Research Methods Rangeland Management and Planning World Soil Resources Environmental Writing		CROP/SOIL/SUS 325 ENSC 321 FES 486 FE/FOR 463 FW 497 GEOG 323 PS 300 RNG 491 SOIL 395 WR 462	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Biology I Env Bio: Ecology, Cons., Global Change Introductory Biology I Principles of Biology: Cells	BI 101 BI 221Z	BI 101 BI 204 BI 221Z	Available online at OSU Available online at OSU
Biology II Animal Bio: Genes, Behavior, and Evolution Introductory Biology II Principles of Biology: Organisms	BI 102 BI 222Z	Z 102 BI 205 BI 222Z	Available online at OSU Available online at OSU
Biology III Human Bio: Anatomy, Phys, and Disease Introductory Biology III Principles of Biology: Ecology & Evolution	BI 103 BI 223Z	BI 103 BI 206 BI 223Z	Available online at OSU Available online at OSU
Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab	CH 121 CH 221Z & 227Z	CH 121 CH 221Z & 227Z	Available online at OSU Available online at OSU
Climate Science Climate Science Snow, Smoke and Storms: Climate in PNW Climatology Intro to Climate Change		ATS 201 ATS 341 GEOG 323 SUS 103	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Land Science Soil Science Environmental Earth Science Planet Earth Physical Geology Earth Systems Science Global Change and Earth Sciences Surface Processes Dynamic Planet Soil Science & Lab	G 101 G 201 G 202 G 102 CSS 205	CSS 205 ENSC 210 GEO 101 GEO 201 GEO 202 GEO 308 GEO 322 GEOG 102 SOIL 205 & 206	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Water Science Watershed Processes Forest Watershed Management Environmental Hydrogeology Intro to Water Science and Policy Hydrology for Water Resource Mgmt Oceanography Intro to Biological Oceanography Coastal Oceanography	GS 108	FE 430 FE 434 GEO 387 GEOG 340 GEOG 424 OC 201 OC 202 OC 332	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Ecology Ecology for Engineers Marine Ecology General Ecology Plant Ecology Tropical Ecology and Conservation Forest Ecology Wildlife Ecology Intro to Wildland Ecology		BEE 270 BI 351 BI 370 BOT 341 ENSC 341 FES 341 FW 481 RNG 121	 Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Mathematics Elementary Functions Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science Differential Calculus	MTH 112Z MTH 241 MTH 245 MTH 251Z	MTH 112Z MTH 241 MTH 245 MTH 251Z	Available online at OSU Available online at OSU Available online at OSU Available online at OSU

NR Core Requirements	LBCC Course	OSU Course	Notes
<i>Complete one course per category</i>			
Statistics Elementary Statistics I Intro to Statistical Methods	STAT 243Z	ST 243Z ST 351	Available online at OSU Available online at OSU
Animal Science Forest Entomology Terrestrial Vertebrate ID and Nat History Principles of Fish & Wildlife Conservation Bio and Conservation of Marine Mammals Ornithology Systematics of Birds Ichthyology Systematics of Fishes Mammalogy Systematics of Mammals Introductory Population Dynamics Applied Community and Ecosystem Ecology Ecology of Marine and Estuarine Birds Herpetofauna Conservation and Management Avian Conservation and Management Fishery Biology Mammal Conservation and Management Marine Conservation Biology Wildlife Ecology Animal Behavior Biology of Insects Herpetology Aquatic Entomology	FW 251	FES 412 FOR 210 FW 251 FW 302 FW 311 FW 312 FW 315 FW 316 FW 317 FW 318 FW 320 FW 321 FW 331 FW 448 FW 451 FW 454 FW 458 FW 464 FW 481 Z 350 Z 365 Z 473 Z 477	Available online at OSU Available online at OSU
Plant Science Botany: A Human Concern Intro to Plant Biology Plant Systematics Forest Pathology Aquatic Botany Flora of the Pacific Northwest Mycology Forest Biology Dendrology Landscape Plant Mat I: Decid & Coniferous Landscape Plant Mat II: Shrubs Wildland Plant Identification	HORT 226 HORT 228	BOT 101 BOT 220 BOT 321 BOT/FOR 413 BOT 416 BOT 425 BOT 461 FES 240 FES 241 HORT 226 HORT 228 RNG 353	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Aquatic Ecosystems Intro to Marine Biology Oceans in Peril Marine Ecology Mgmt Principles of Pacific Salmon in NW Integrated Watershed Management Coastal Ecology and Resource Management Estuarine Ecology Freshwater Ecology and Conservation Fish Ecology Wetlands and Riparian Ecology Hydrology for Water Resource Management Riparian Ecohydrology and Management		BI 150 BI 347 BI 351 FW 323 FW 326 FW 426 FW/OC 434 FW 456 FW 473 FW 479 GEOG 424 RNG 455	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU

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Courses Required for Landscape Analysis Option

Requirement <i>Complete one course per category unless otherwise noted</i>	LBCC Course	OSU Course	Notes
Measurements			
Forest Surveying	CEM 263	FE 208	Available online at OSU
Foundations of Geospatial Science & GIS		GEOG 201	Available online at OSU
Geoscience I: GIS Systems & Theory		GEOG 360	Available online at OSU
GIS & Forest Engineering Applications	ENGR 242	FE 257	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		CE 413	
Precision Agriculture		CROP/HORT 414	Available online at OSU
Forest Route Surveying		FE 310	
Unmanned Aircraft Systems Remote Sensing		FE 423	
Forestry Remote Sensing & Photogrammetry		FE 444	
Survey of Geographic Information Systems		FW 303	Available online at OSU
Quant Geospatial Analysis & Modeling		GEOG 361	Available online at OSU
Plan Prin and Pract for Resilient Communities		GEOG 451	
GIS & Spatial Data Science		GEOG 460	Available online at OSU
GIScience III: Programming for Geo. Analysis		GEOG 462	Available online at OSU
Analytical Workflows for Earth System Science		GEOG 463	
Geospatial Perspectives		GEOG 464	Available online at OSU
Interactive Cartography		GEOG 472	
Remote Sensing II: Digital Image Processing		GEOG 481	Available online at OSU
Internship		NR 410	Available online at OSU
Soil Landscape Analysis		SOIL 468	Available online at OSU
NR Electives – at least 10 credits			
Courses related to GIScience			

General Education Courses (called Core Ed)

- Complete one course in each category.
- Full listing of LBCC courses that fulfill Core Ed requirements: <https://admissions.oregonstate.edu/core-education-course-articulations-linn-benton-community-college>

FOUNDATIONAL CORE	Writing Foundations	WR 121Z required
	Arts & Humanities: General	
	Arts & Humanities: Global	
	Quantitative Literacy & Analysis	Fulfilled by major: MTH 112Z, MTH 241, or STAT 243Z
	Communication, Media & Society	
	Social Science	Fulfilled by major: EC 201Z
	Scientific Inquiry & Analysis	Fulfilled by major: Biology
	Scientific Inquiry & Analysis	Fulfilled by major: Chemistry
SIGNATURE CORE	Difference, Power, Oppression Foundations	
	Transitions	
	Beyond OSU I: Prepare	Fulfilled by major: NR 201
	Beyond OSU II: Engage	Fulfilled by major: NR 455
	Difference, Power, Oppression Advanced	Fulfilled by major: AG 311, ENSC/GEOG 333, SUS 331
	Seeking Solutions	Cannot be fulfilled by a major requirement
	Writing Elevation	
	Writing Intensive Course	Fulfilled by major: SUS 325, ENSC 321, FES 486, FOR 463, or WR 462

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.oregonstate.edu/visit-campus to schedule your personalized visit.

Linn-Benton Community College	541-917-4780 advisingcenter@linnbenton.edu
OSU Forestry Student Services Office	541-737-1594 forestrystudentservices@oregonstate.edu