TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS ECAMPUS

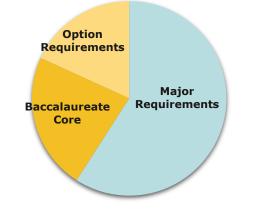
Lane Community College

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 | LCC Course | OSU Course | Notes |
|--|------------|------------|-------------------------|
| Complete one course per category | | 050 000130 | 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 | | | |
| 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 221 | BI 221 | |



| NR Core Requirements (continued) Complete one course per category | LCC Course | OSU Course | Notes |
|--|---------------------|----------------------|--|
| Biology II | | | |
| General Biology II with Lab | BI 102 | BI 102 | Available online at OSU |
| Introduction to Biology II | - | BI 205 | Available online at OSU |
| Principles of Biology: Organisms | BI 222 | 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 223A or BI 223B | BI 223 | |
| Chemistry | | | |
| General Chemistry I with Lab | | 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 | Available online at OSU |
| Global Change Biology | | FW 345 | Available online at 050 |
| Climatology | | GEOG 323 | Available online at OSU |
| Intro to Climate Change | | SUS 103 | Available online at OSU |
| Earth Science | | 303 103 | Available offinite at 050 |
| The Solid Earth | G 101 | GEO 101 | Available online at OSU |
| Physical Geology | G 201 | GEO 201 | |
| Earth Systems Science | G 202 | GEO 201 GEO 202 | |
| Environmental Geology | 0 202 | GEO 202 GEO 221 | Available online at OSU |
| | G 102 | | |
| Physical Geography | 0 102 | GEOG 102 | Available online at OSU |
| Ecology | | BI 351 | Available online at OSU |
| Marine Ecology General Ecology | | BI 370 | Available online at OSU |
| | | BOT 341 | Available online at OSU |
| Plant Ecology | | FES 341 | |
| Forest Ecology Mathematics | | FES 341 | Available online at OSU |
| | MTH 112Z | MTH 112Z | Available online at OSU |
| Elementary Functions | MTH 1122 MTH 241 | MTH 1122 MTH 241 | Available online at OSU |
| Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science | MIH 241 | MTH 241 MTH 245 | Available online at OSU |
| Differential Calculus | MTH 251 | MTH 251 | Available online at OSU |
| Statistics | MIII 231 | MIII 231 | Available offinite at 030 |
| Principles of Statistics | STAT 243Z | ST 243Z | Available online at OSU |
| Intro to Statistical Methods | STAT 2452 | ST 351 | Available online at OSU |
| Animal ID | | 31 331 | Available offinite at 030 |
| 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 | Available offinite at 030 |
| | | Z 473 | Available online at OSU |
| Herpetology Aquatic Entomology | | Z 473 Z 477 | Available offine at 030 |
| Environ. Assessment & Planning | | 24// | |
| Agriculture & Environmental Predicaments | | CROP/SOIL/SUS 325 | |
| 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 offine at 050 |
| Land Use in the American West | | | Available online at OSU |
| Planning Principles for Resilient Communities | | GEOG 451 | Available online at OSU |
| Sustainable Site Planning Wildland restoration and Ecology | | GEOG 452 | Available online at OSU |
| Wildland restoration and Ecology | | RNG 421 RNG 457 | Available online at OSU |
| Habitat Analysis I Rangeland Management and Planning | | | |
| Rangeland Management and Planning | | RNG 490 | Available online at OSU Available online at OSU |
| Sustainability Assessment | | SUS 304 | |
| Sustainable Communities | | SUS 350 | Available online at OSU |
| Planning for Sustainable Recreation | | TRAL 456 | |
| Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems | | TRAL 457 | Available online at OSU |
| SUBULUC MELIDOUS INF ADAIV7ING NR PRODEMS | 1 | NR 325 | Avaliable online at USU |

| NR Core Requirements (continued) Complete one course per category | LCC Course | OSU Course | Notes |
|---|------------------|---------------------------------|---|
| Fish & Marine Sciences | | | |
| | BI 102C | BI 150 | |
| Intro to Marine Biology | BI 102C | | |
| 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 | GS 147 or GS 108 | OC 201 | Available online at OSU |
| 51, | GS 147 01 GS 108 | | Available offinite at 050 |
| Coastal Oceanography | | OC 332 | |
| Forestry | | | |
| International Forestry | | FE/FOR 456 | |
| Forest Biology | BI 103 | FES 240 | Available online at OSU |
| Forest Ecology | 51 105 | 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 452 | Available online at OSU |
| , . | | | Available offinite at 050 |
| Agroforestry | | FES/NR 477 | |
| Topics in Wildland Fire | | FOR 346 | Available online at OSU |
| Silviculture Principles | | FOR 441 | |
| Land & Water | | | |
| Watershed Processes | | FE 430 | Available online at OSU |
| | | | Available offinite at 050 |
| 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 |
| | | GEO 307 | Available online at OSU |
| National Park Geology and Preservation | | | |
| 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 |
| | | 0012 100 | |
| Range | | 550 440 | |
| 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 |
| | | RNG 351 | Available online at OSU |
| Range Ecology I – Grasslands | | | |
| 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 |
| Rangeland Management and Planning | | RNG 490 | Available online at OSU |
| | + | | |
| Vegetation ID | | | |
| Plant Systematics | | BOT 321 | Available online at OSU |
| Agrostology | | BOT 414 | |
| Flora of the Pacific Northwest | | BOT 425 | |
| | | | Available enline at OCU |
| Mycology | | BOT 461 | Available online at OSU |
| | 1 | FES 241 | Available online at OSU |
| Dendrology | | | |
| Landscape Plant Materials I: Decid & Conifers | LAT 155 | HORT 226 | Available online at OSU |
| Landscape Plant Materials I: Decid & Conifers | LAT 155 | | |
| | LAT 155 | HORT 226 HORT 228 RNG 353 | Available online at OSU Available online at OSU Available online at OSU |

| NR Core Requirements (continued) Complete one course per category | LCC Course | OSU Course | Notes |
|---|------------|------------------------|--|
| Wildlife Management | | | |
| 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 |
| 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 | | 2 330 | |
| 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 ANTH 482 | Available offinite at 050 |
| 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 |
| | | HST 481 | Available online at OSU |
| Environmental History of the United States | | NR 312 | Available online at 050 |
| Critical Thinking for NR Challenges | | NR 312 NR 380 | Available online at OSU |
| Nature in Storytelling over the Centuries Environmental Ethics | | | Available online at OSU |
| World View and Environmental Values | | PHL 440 | Available online at OSU |
| | | PHL/REL 443 SUS 331 | Available online at OSU |
| Sustainability, Justice & Engagement Natural Resource Policy | | 505 551 | |
| Environmental Law | | AEC 432 | Available online at OSU |
| Public Lands Policy & Management | | FES 486 | Available online at OSU |
| Forest Policy | | FOR 460 | Available offine at 050 |
| Forest Policy Analysis | | FOR 460 | |
| Fish & Wildlife Law and Policy | | FW 415 | Available online at OSU |
| Introduction to Ocean Law | | FW 415 FW 422 | Available online at OSU |
| | | PS 473 | |
| U.S. Energy Policy | | PS 473 PS 475 | Available online at OSU Available online at OSU |
| Environmental Politics and Policy | | | |
| 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 | ECON 260 | AEC 250 | Available online at OSU |
| Intro to Microeconomics | EC 201 | ECON 201 | Available online at OSU |

| NR Core Requirements (continued) Complete one course per category | LCC 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 | | 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 | | | |
| Waived for Landscape Analysis Students | | | |

Courses Required for Landscape Analysis Option

| Requirement Complete one course per category unless otherwise noted | LCC Course | OSU Course | Notes |
|---|------------|---------------|-------------------------|
| Measurements | | | |
| Forest Surveying | | FE 208 | Available online at OSU |
| Foundations of Geospatial Science & GIS | GIS 151 | GEOG 201 | Available online at OSU |
| Geoscience I: GIS Systems & Theory | GIS 245 | GEOG 360 | Available online at OSU |
| GIS & Forest Engineering Applications | | 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 |
| Internship | | NR 410 | Available online at OSU |
| Forest Photogrammetry & Remote Sensing | | FE 209 | |
| 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 |
| GIScience II: Analysis & Applications | | GEOG 361 | Available online at OSU |
| Geovisualization: Web Mapping | | GEOG 371 | Available online at OSU |
| Plan Prin and Pract for Resilient Communities | | GEOG 451 | Available online at OSU |
| GIS & Spatial Data Science | | GEOG 460 | Available online at OSU |
| GIScience III: Programming for Geo. Analysis | | GEOG 462 | Available online at OSU |
| Geospatial Perspectives | | GEOG 464 | Available online at OSU |
| Remote Sensing II: Digital Image Processing | | GEOG 481 | Available online at OSU |
| Soil Landscape Analysis | | SOIL 468 | Available online at OSU |
| NR Electives 11-14 credits | | | |
| Courses related to GIScience and NR | | | |

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 Lane CC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-</u> equivalencies-lane-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 HE 275 |
|------------------------|--|---|
| 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 ECON 260 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.

| Lane Community College | https://www.lanecc.edu/get-support/academic-support/academic-advising |
|-------------------------|---|
| OSU College of Forestry | 541-737-1594 |
| Student Services Office | forestrystudentservices@oregonstate.edu |