TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

ECAMPUS

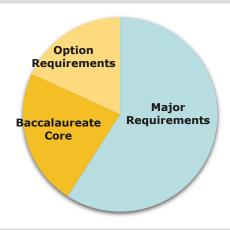
Rogue Community College

Natural Resources Major with Ecological Restoration Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations.

NR students completing this option will understand the complexities associated with restoration of terrestrial and aquatic ecosystems, and how restorative decisions involve significant interactions between ecological and social systems.

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>forestry.oregonstate.edu/undergraduate-</u> programs/natural-resources/ecological-restoration

Courses Required for Natural Resources Major

| NR Core Requirements | RCC Course | OSU Course | Notes |
|--|------------|------------|-------------------------|
| Complete one course per category | RCC Course | 050 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 | | | |
| Intro to Communication Theory | | COMM 321 | |
| Small Group Problem Solving | | COMM 322 | |
| Communication in Organizations | | COMM 324 | |
| Intercultural Communication | SP 115 | 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 227 | 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: Cells | BI 211 | BI 221 | |



| NR Core Requirements (continued) Complete one course per category | RCC Course | OSU Course | Notes |
|---|------------|--------------------------------------|------------------------------|
| Biology II | | | |
| Introduction to Biology II | | BI 205 | Available online at OSU |
| Principles of Biology: Organisms | BI 213 | BI 222 | Available offilite at 050 |
| Biology III | B1 213 | D1 222 | |
| Introduction to Biology III | | BI 206 | Available online at OSU |
| | DI 212 | | Available offille at 050 |
| Principles of Biology: Populations | BI 212 | BI 223 | |
| Chemistry | | | |
| General Chemistry I with Lab | CHEM 104 | CH 121 | Available online at OSU |
| General Chemistry (Majors) I with Lab | CHEM 221 | 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 |
| ntro 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 | |
| Soil Science with Lab | | SOIL 205 & 206 | |
| Soil Science with Forest Soils Lab | | SOIL 203 & 200 SOIL 205 & FOR 206 | |
| | | 301L 203 & 1 OK 200 | |
| Ecology | | DI 251 | Available online at OCU |
| Marine Ecology | | BI 351 | Available online at OSU |
| General Ecology | | BI 370 | Available online at OSU |
| Plant Ecology | | BOT 341 | Available online at OSU |
| Forest Ecology | | FES 341 | Available online at OSU |
| Mathematics | | | |
| 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 | 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 |
| | | FW 312 FW 316 | Available online at OSU |
| Systematics of Fishes | | | |
| Systematics of Mammals | | FW 318 | Available online at OSU |
| Biology of Insects | | Z 365 | Assettable assistance of OCC |
| Herpetology | | Z 473 | Available online at OSU |
| Aquatic Entomology | | Z 477 | |
| Environ. Assessment & Planning | | | |
| Ecological Restoration | | FES/FW 445 | Available online at OSU |
| Ecosystems Services | | FW 462 | Available online at OSU |
| and Use Planning for Sust. Communities | | GEOG 250 | Available online at OSU |
| and Use in the American West | | GEOG 450 | |
| Planning Principles for Resilient Communities | | GEOG 451 | |
| Sustainable Site Planning | | GEOG 452 | Available online at OSU |
| Scientific Methods for Analyzing NR Problems | | NR 325 | anable offinite de 050 |
| | | | Available online at OSU |
| Wildland restoration and Ecology | | RNG 421 | |
| 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 | I | TRAL 457 | İ |

| NR Core Requirements (continued) | RCC Course | OSU Course | Notes |
|---|------------|--------------|--|
| Complete one course per category | | | |
| Fish & Marine Sciences | BI 109 | BI 150 | |
| Intro to Marine Biology | BI 109 | | Accelled a college of OCU |
| 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 |
| Marine Fisheries | | FW 465 | |
| Fish Ecology | | FW 473 | Available online at OSU |
| Wildlife Ecology | | FW 481 | Available online at OSU |
| Oceanography | GS 108 | OC 201 | Available online at OSU |
| Coastal Oceanography | | OC 332 | |
| Forestry | | | |
| International Forestry | | FE/FOR 456 | |
| Forest Biology | | 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 |
| 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 |
| 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 |
| 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 |
| 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 | | 2312 100 | A Canadia of mile at 050 |
| 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 – Grassianus Range Ecology II – Shrub Lands | | RNG 351 | Available online at OSU |
| | | RNG 421 | Available online at OSU |
| Wildland Restoration and Ecology | | RNG 441 | Available online at OSU |
| Rangeland Analysis | | | 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 | | DOT 221 | |
| Plant Systematics | | BOT 321 | |
| Agrostology | | BOT 414 | |
| Flora of the Pacific Northwest | | BOT 425 | |
| Dendrology | | FES 241 | Available online at OSU |
| Landscape Plant Materials I: Decid & Conifers | | HORT 226 | Available online at OSU |
| Landscape Plant Materials II: Shrubs | | HORT 228 | Available online at OSU |
| Wildland Plant Identification | | RNG 353 | Available online at OSU |

| NR Core Requirements (continued) | | | |
|---|------------|--------------------|--|
| Complete one course per category | RCC 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 | Available offilite at 050 |
| 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 | Available offilite 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 |
| Environmental History of the United States | | HST 481 | Available online at OSU |
| Critical Thinking for NR Challenges | | NR 312 | Available offille at 030 |
| 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 | | 303 331 | Available offilite at 030 |
| Environmental Law | | AEC 432 | Available online at OSU |
| Rural Development Economics & Policy | | AEC 452 AEC 454 | Available online at OSU |
| Public Lands Policy & Management | | FES 486 | Available online at OSU |
| Forest Policy | | FOR 460 | Available offille at 030 |
| 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 | | 13477 | Available offille at 030 |
| Plagues, Pests, and Politics | | ENT/HORT 300 | Available online at OSU |
| Natural Resource Policy and Law | | FOR 462 | Available offille at 030 |
| Endangered Spec, Society and Sustainability | | FW 350 | Available online at OSU |
| When Science Escapes the Lab | | NR 351 | Available offille at 030 |
| 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 Available online at OSU |
| | | PS 476 PS 477 | Available online at OSU Available online at OSU |
| International Environmental Politics & Policy | | _ | |
| Wilderness Management Economics | | TRAL 352 | Available online at OSU |
| | | AEC 350 | Available online at OSU |
| Intro to Environmental Economics & Policy | ECON 201 | AEC 250 | |
| Intro to Microeconomics | ECON 201 | ECON 201 | Available online at OSU |

| NR Core Requirements (continued) Complete one course per category | RCC 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 | |
| Women and Natural Resources | | WGSS 440 | Available online at OSU |
| Spatial Analysis | | | |
| RCC Course: Geographical Info Systems | CT 115 | GEO LDT | |
| 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 Ecological Restoration Option

| 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | | |
|--|------------|--------------|---------------------------|
| Requirement Complete one course per category unless otherwise noted | RCC Course | OSU Course | Notes |
| Measurements | | | |
| Field Methods in Ecological Restoration | | BI 375 | Available online at OSU |
| Field Methods in Plant Ecology | | BOT 440 | Available online at OSU |
| Scientific Methods for Analyzing NR Problems | | NR 325 | |
| Rangeland Analysis | | RNG 441 | Available online at OSU |
| Resource Economics | | 100 111 | Available offilite at 656 |
| Natural Resources Economics & Policy | | AEC 351 | Available online at OSU |
| Environmental Economics & Policy | | AEC/ECON 352 | Available online at OSU |
| Intro to Coastal & Marine Resource Econ | | AEC 353 | Available online at OSU |
| Rural Development Economics & Policy | | AEC 454 | Available offilite at 050 |
| Forest Resource Economics I | | FOR 329 | |
| Economics & Policy of Wildland Fire | | FOR 431 | Available online at OSU |
| Plant Systematics | | BOT 321 | Available offille at 030 |
| Plant Ecology | | BOT 321 | Available online at OSU |
| General Chemistry II with Lab | CH 105 | CH 122 | Available online at OSU |
| General Chemistry II with Lab (for majors) | CH 222 | CH 232 & 262 | Available online at OSU |
| Ecological Restoration | 0.1 222 | FES/FW 445 | Available online at OSU |
| Wetlands and Riparian Ecology | | FW 479 | Available online at OSU |
| Riparian Ecohydrology and Management | | RNG 455 | Available online at OSU |
| Land Use in the American West | | GEOG 450 | Available offilite at 030 |
| Planning Prin & Pract for Resilient Community | | GEOG 450 | |
| Sustainable Site Planning | | GOEG 451 | Available online at OSU |
| Ecosystems of Wildland Soils | | SOIL 366 | Available online at OSU |
| Soil System and Plant Growth | | SOIL 388 | Available online at OSU |
| Soil Morphology and Classification | | SOIL 466 | Available online at OSU |
| Social & Ethical Considerations | | 301L 400 | Available offilite at 050 |
| Urban Forestry | | FES/HORT 350 | Available online at OSU |
| Econ and Policy of Forest Wildland Fire | | FOR 431 | Available online at OSU |
| Critical Thinking for NR Challenges | | NR 312 | Available offilite at 050 |
| Environmental Ethics | | PHL 440 | |
| World Views and Environmental Values | | PHL/REL 443 | Available online at OSU |
| Environmental Sociology | | SOC 480 | Available online at OSU |
| Society and Natural Resources | | SOC 481 | Available online at OSU |
| Sustainability, Justice, and Engagement | | SUS 331 | Available online at OSU |
| Ecological & NR Electives - 2 classes | | 303 331 | Available offine at 050 |
| Marine Ecology | | BI 351 | Available online at OSU |
| Environmental Physiology of plants | | BOT 488 | Available offilite at 050 |
| Wildland Fire Ecology | | FES 440 | Available online at OSU |
| Wildland Fire Science & Management | | FOR 436 | Available online at OSU |
| Biodiversity Cons in Managed Forests | | FES/FW 452 | Available online at OSU |
| Silviculture Principles | | FOR 441 | , wanasie omine de oso |
| Introductory Population Dynamics | | FW 320 | Available online at OSU |
| Coastal Ecology and Resource Management | | FW 426 | Available online at OSU |
| Avian Conservation and Management | | FW 451 | Available online at OSU |
| Fishery Biology | | FW 454 | Available online at OSU |
| Freshwater Ecology and Conservation | | FW 456 | Available online at OSU |
| Mammal Conservation and Management | | FW 458 | Available online at OSU |
| Fish Ecology | | FW 473 | Available online at OSU |
| Wildlife Ecology | | FW 481 | Available online at OSU |
| Rangeland Ecology and Management | | RNG 341 | Available online at OSU |
| Wildland Restoration and Ecology | | RNG 421 | Available online at OSU |
| Soil Landscape Analysis | | SOIL 468 | |
| Biodiversity: Causes, Consequences, Conserv | | Z 349 | Available online at OSU |
| Environmental Physiology | | Z 423 | 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.
- Full listing of RCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-roque-community-college</u>

| 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 @ RCC |
|------------------------|--|---|
| 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.

| Rogue Community College | Pam Green pgreen@roguecc.edu |
|--|--|
| OSU College of Forestry Prospective Student Advisor | Autumn VanderLinden 541-737-9135 Autumn.VanderLinden@oregonstate.edu |