TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS ECAMPUS

CASCADES

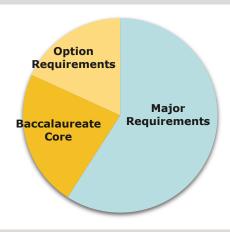
Umpqua Community College

Natural Resources Major with Individualized Specialty Option

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

Individualized Specialty Option students create their own option around a particular theme or area of interest.

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/undergraduateprograms/natural-resources/individualized-specialty

Courses Required for Natural Resources Major

| NR Core Requirements Complete one course per category | UCC Course | OSU Course | Notes |
|--|------------------|---|--|
| Consensus and Natural Resources | | FES 485 | Available online at OSU |
| Managing Nat Res for the Future | FOR/NR 201 | 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 UCC Course: Enrivon. Dispute Resolution Intro to Communication Theory Small Group Problem Solving Communication in Organizations Intercultural Communication Non-Verbal Communication Communication and Culture in Cyberspace Theories of Conflict and Conflict Management Bargaining and Negotiating Processes | NR 295 | FES LDT COMM 321 COMM 322 COMM 324 COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 | Available online at OSU Available online at OSU Available online at OSU |
| Forest as Classroom Effective Comm in Fish & Wildlife Sciences Critical thinking for NR Challenges Environmental Interpretation Technical Writing Science Writing Environmental Writing Professional Writing | WR 227 | FES 430 FW 489 NR 312 TRAL 493 WR 327 WR 362 WR 462 WR 466 | Available online at OSU Available online at OSU Available online at OSU Available online at OSU |
| Biology I General Biology I with Lab Introduction to Biology I Principles of Biology: Cells | BI 101 BI 212 | BI 101 BI 204 BI 221 | Available online at OSU Available online at OSU |



| Introduction to Biology II Principles of Biology: Organisms BI 213 Biology III General Biology III with Lab Introduction to Biology III Principles of Biology: Populations Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science BI 213 BI 205 BI 202 Availab BI 203 CH 211 BI 223 CH 121 CH 121 Availab CH 231 & 261 Availab | le online at OSU |
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| General Biology II with Lab Introduction to Biology II Principles of Biology: Organisms BI 213 Biology III General Biology III with Lab Introduction to Biology III General Biology III with Lab Introduction to Biology III Principles of Biology: Populations BI 211 BI 206 Availab Principles of Biology: Populations Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science Climate Science ATS 201 Availab Availab Availab Availab Availab | le online at OSU le online at OSU le online at OSU |
| Introduction to Biology II Principles of Biology: Organisms BI 213 BI 222 Biology III General Biology III with Lab Introduction to Biology III Principles of Biology: Populations Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science Climate Science Available BI 213 BI 205 BI 222 Available BI 206 Available BI 206 Available CH 221 CH 121 Available CH 221 CH 221 Available CH 231 & 261 Available Available CH 231 & 261 Available | le online at OSU le online at OSU le online at OSU |
| Principles of Biology: Organisms BI 213 Biology III General Biology III with Lab Introduction to Biology III Principles of Biology: Populations Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science Climate Science BI 213 BI 222 BI 103 BI 206 Availab BI 223 CH 121 CH 121 CH 221 CH 221 CH 231 & 261 Availab Availab | le online at OSU |
| Biology III General Biology III with Lab Introduction to Biology III Principles of Biology: Populations Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science Climate Science ATS 201 BI 103 BI 103 BI 206 Availab BI 223 CH 221 CH 121 CH 221 CH 221 Availab Availab | le online at OSU |
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| Introduction to Biology III Principles of Biology: Populations BI 211 BI 206 BI 223 Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science Climate Science ATS 201 Available Available Available Available Available Available ATS 201 ATS 201 Available Available Available Available | le online at OSU |
| Principles of Biology: Populations Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab Climate Science Climate Science ATS 201 BI 223 CH 121 CH 121 Availab CH 231 & 261 AVailab ATS 201 ATS 201 AVailab | le online at OSU |
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| General Chemistry (Majors) I with Lab Climate Science Climate Science ATS 201 AVailable ATS 201 AVailable ATS 201 AVailable | le online at OSU |
| Climate Science Climate Science ATS 201 ATS 201 Available | |
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| Global Change Biology FW 345 | le online at OSU |
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| | le online at OSU |
| Earth or Soil Science | |
| | le online at OSU |
| Principles of Soil Science CSS 305 | |
| | le online at OSU |
| Physical Geology G 201 GEO 201 | |
| Earth Systems Science G 202 GEO 202 | la anlina at OCU |
| 1 | le online at OSU le online at OSU |
| Soil Science with Lab SOIL 205 & SOIL 206 SOIL 205 & 206 | ie online at USU |
| Soil Science with Forest Soils Lab SOIL 205 & FOR/SOIL 206 SOIL 205 & FOR 206 | |
| Ecology | |
| | le online at OSU |
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| | le online at OSU |
| Mathematics | |
| | le online at OSU |
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| | le online at OSU |
| Differential Calculus MTH 251 MTH 251 Availab | le online at OSU |
| Statistics | |
| | le online at OSU |
| | le online at OSU |
| Animal ID | |
| Terrestrial Vertebrate ID & Natural History FOR 210 | |
| Forest Entomology FES 412 | |
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| | le online at OSU |
| Biology of Insects Z 365 | lo onlino at OCU |
| 1 37 | le online at OSU |
| Aquatic Entomology Z 477 Environ. Assessment & Planning | |
| | le online at OSU |
| | le online at OSU |
| | le online at OSU |
| Land Use in the American West GEOG 450 | .5 5/11116 46 050 |
| Planning Principles for Resilient Communities GEOG 451 | |
| | le online at OSU |
| Scientific Methods for Analyzing NR Problems NR 325 | |
| | le online at OSU |
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| | le online at OSU |
| Planning for Sustainable Recreation TRAL 456 | |
| Planning for Sustainable Tourism TRAL 457 | |

| NR Core Requirements (continued) Complete one course per category | UCC 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 |
| 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 | rivaliable elimie at eee |
| Fish Ecology | | FW 473 | Available online at OSU |
| Wildlife Ecology | | FW 481 | Available online at OSU |
| Oceanography | GS 147 | OC 201 | Available online at OSU |
| Coastal Oceanography | 00 117 | OC 332 | Available offilite at 350 |
| Forestry | | 36 332 | |
| International Forestry | | FE/FOR 456 | |
| Forest Biology | FOR/NR 240 | FES 240 | Available online at OSU |
| Forest Ecology | 1 314111 2 13 | 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 | Available offille at 030 |
| | | FOR 346 | Available online at OSU |
| Topics in Wildland Fire Silviculture Principles | | FOR 441 | Available offliffe at 050 |
| Land & Water | | FOR 441 | |
| UCC Course: Water Resource Mgmt. | NR 221 | GEO LDT | |
| Watershed Processes | INK 221 | FE 430 | Available online at OSU |
| Forest Watershed Management | | FE 434 | Available offliffe at 030 |
| Integrated Watershed Management | | FW 326 | Available online at OSU |
| | | FW 456 | Available online at OSU |
| Freshwater Ecology and Conservation | | FW 479 | Available online at OSU |
| Wetlands and Riparian Ecology | | GEO 306 | Available online at OSU |
| Minerals, Energy, Water and the Environment National Park Geology and Preservation | G 213 | GEO 307 | Available online at OSU |
| Global Change and Earth Sciences | G 213 | 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 | Available offliffe at 030 |
| 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 388 | Available online at OSU |
| Soil Morphology and Classification | | SOIL 466 | Available online at OSU |
| Range | | 3012 400 | Available offilite 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 |
| Wildland Restoration and Ecology | | RNG 421 | Available online at OSU |
| | | RNG 441 | Available online at OSU |
| Rangeland Analysis Rangeland-Animal Relations | | | Available online at OSU |
| Rangeland Management and Planning | | RNG 442 | |
| Vegetation ID | | RNG 490 | Available online at OSU |
| UCC Course: Flowering Plants of SW Oregon | BOT 204 | BOT LDT | |
| | DO1 204 | | |
| Plant Systematics | | BOT 321 | |
| Agrostology | | BOT 414 | Available caling at OCU |
| Flora of the Pacific Northwest | EOD/ND 241 | BOT 425 | Available online at OSU Available online at OSU |
| Dendrology | FOR/NR 241 | FES 241 | |
| Landscape Plant Materials II: Decid & Conifers | | HORT 226 | Available online at OSU |
| Landscape Plant Materials II: Shrubs | | HORT 228 | Available online at OSU |
| Wildland Plant Identification | | RNG 353 | |

| NR Core Requirements (continued) | | | |
|---|------------|--------------|-------------------------|
| Complete one course per category | UCC Course | OSU Course | Notes |
| Wildlife Management | | | |
| Principles of Fish & Wildlife Conservation | NR 251 | 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 | | | |
| 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 |
| 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 |
| 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 | | AEC 250 | Available online at OSU |
| Intro to Microeconomics | ECON 201 | ECON 201 | Available online at OSU |

| NR Core Requirements (continued) Complete one course per category | UCC 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 | FOR/NR 261 | 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 | | | |
| Precision Agriculture | | CROP/HORT 414 | Available online at OSU |
| GIS and Forest Engineering Applications | GIS 134 or FOR/GIS 234 | FE 257 | Available online at OSU |
| Survey of Geographic Information Systems | | FW 303 | Available online at OSU |
| Foundations of Geospatial Science & GIS | GIS 203 | GEOG 201 | Available online at OSU |
| Geoscience I: GIS and Theory | GIS 234 | GEOG 360 | Available online at OSU |

Courses Required for Individualized Specialty Option

| Requirement Complete one course per category | UCC Course | OSU Course | Notes |
|---|------------|------------|-------|
| Measurements – one course | | | |
| Upper-Division Courses – 20 credit min. | | | |
| Additional Courses to reach 37 credits tot | | | |

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 UCC courses that fulfill Bacc Core requirements: <u>admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-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 @ Umpqua |
|------------------------|--|---|
| 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.

| Umpqua Community College | Bryan Benz, Science Faculty 541-440-4618 bryan.benz@umpqua.edu |
|---|--|
| OSU College of Forestry Prospective Student Advisor | Autumn VanderLinden 541-737-9135 Autumn.VanderLinden@oregonstate.edu |