

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

**Southwestern Oregon
Community College**

CORVALLIS

ECAMPUS

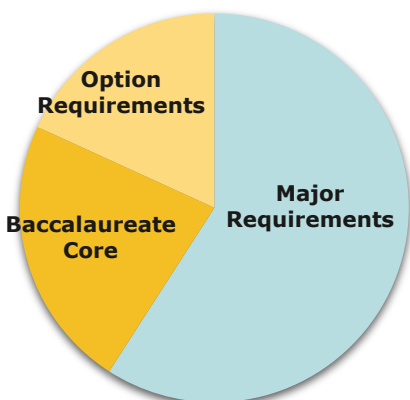
CASCADES

Natural Resources Major with Fish & Wildlife Conservation Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Completing this option prepares students for careers in natural resource and wildlife conservation.

It emphasizes understanding the relationship between animal species and their habitat requirements and ability to apply that knowledge to the management of ecosystems as a means of conserving fish and wildlife.

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/undergraduate-programs/natural-resources/fish-and-wildlife-conservation](http://more.info.at.forestry.oregonstate.edu/undergraduate-programs/natural-resources/fish-and-wildlife-conservation)

Courses Required for Natural Resources Major

| NR Core Requirements | SWOCC Course | OSU Course | Notes | |
|--|--------------|------------|-------------------------|-------------------------|
| <i>Complete one course per category</i> | | | | |
| Consensus and Natural Resources | | FES 485 | Available online at OSU | |
| Managing Nat Res for the Future | 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 | | | | |
| Intro to Communication Theory | SP 115 | COMM 321 | Available online at OSU | |
| Small Group Problem Solving | | COMM 322 | | |
| Communication in Organizations | | COMM 324 | | |
| Intercultural Communication | | COMM 326 | | |
| Non-Verbal Communication | | COMM 328 | | |
| Communication and Culture in Cyberspace | | COMM 385 | | |
| 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 | WR 227 | NR 312 | Available online at OSU | |
| Environmental Interpretation | | TRAL 493 | | |
| Technical Writing | | WR 327 | | |
| Science Writing | | WR 362 | | |
| Environmental Writing | | WR 462 | | |
| Professional Writing | WR 466 | | | |
| Biology I | | | | |
| Introduction to Biology I | BI 201 | BI 204 | Available online at OSU | |
| Principles of Biology: Cells | | BI 221 | | |
| Biology II | | | | |
| Introduction to Biology II | BI 203 | BI 205 | Available online at OSU | |
| Principles of Biology: Organisms | | BI 222 | | |

| NR Core Requirements (continued) <i>Complete one course per category</i> | SWOCC Course | OSU Course | Notes |
|--|-------------------------------|---|---|
| Biology III Introduction to Biology III Principles of Biology: Populations | BI 202 | BI 206 BI 223 | Available online at OSU |
| Chemistry General Chemistry I with Lab General Chemistry (Majors) I with Lab | CHEM 221 or 222 or 223 | CH 121 CH 231 & 261 | Available online at OSU Available online at OSU |
| Climate Science SWOCC Course: Weather & Climate Climate Science Global Change Biology Climatology Intro to Climate Change | GEO 209 | ATS 201 FW 345 GEOG 323 SUS 103 | Available online at OSU Available online at OSU Available online at OSU |
| Earth or Soil Science Soil Science Principles of Soil Science The Solid Earth Physical Geology Earth Systems Science Environmental Geology Physical Geography Soil Science with Lab Soil Science with Forest Soils Lab | G 201 G 202 ENV 235 | CSS 205 CSS 305 GEO 101 GEO 201 GEO 202 GEO 221 GEOG 102 SOIL 205 & 206 SOIL 205 & FOR 206 | Available online at OSU Available online at OSU Available online at OSU Available online at OSU |
| Ecology Marine Ecology General Ecology Plant Ecology Forest Ecology | | BI 351 BI 370 BOT 341 FES 341 | 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 112 MTH 241 MTH 251 | MTH 112 MTH 241 MTH 245 MTH 251 | Available online at OSU Available online at OSU Available online at OSU Available online at OSU |
| Statistics Principles of Statistics Intro to Statistical Methods | MTH 243 or 244 | ST 201 ST 351 | Available online at OSU Available online at OSU |
| Animal ID Terrestrial Vertebrate ID & Natural History Forest Entomology Systematics of Birds Systematics of Fishes Systematics of Mammals Biology of Insects Herpetology Aquatic Entomology | | FOR 210 FES 412 FW 312 FW 316 FW 318 Z 365 Z 473 Z 477 | Available online at OSU Available online at OSU Available online at OSU Available online at OSU |
| Environ. Assessment & Planning Ecological Restoration Ecosystems Services Land Use Planning for Sust. Communities Land Use in the American West Planning Principles for Resilient Communities Sustainable Site Planning Scientific Methods for Analyzing NR Problems Wildland restoration and Ecology Habitat Analysis I Rangeland Management and Planning Sustainability Assessment Sustainable Communities Planning for Sustainable Recreation Planning for Sustainable Tourism | | FES/FW 445 FW 462 GEOG 250 GEOG 450 GEOG 451 GEOG 452 NR 325 RNG 421 RNG 457 RNG 490 SUS 304 SUS 350 TRAL 456 TRAL 457 | 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 Available online at OSU Available online at OSU |

| NR Core Requirements (continued) <i>Complete one course per category</i> | SWOCC Course | OSU Course | Notes |
|--|---------------------|--|--|
| Wildlife Management Introductory Population Dynamics Applied Community and Ecosystem Ecology Wildlife in Agricultural Ecosystems Avian Conservation and Management Biodiversity Conservation in Managed Forests Mammal Conservation and Management Wildlife Ecology Animal Behavior | | FW 320 FW 321 FW 435 FW 451 FES/FW 452 FW 458 FW 481 Z 350 | 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 |
| Ethics & Philosophy Ecosystems Science of the PNW Indians Anthropology, Health, and the Environment Ecological Anthropology Natural Resources and Community Values Anthropology of International Development Multicultural Perspectives in NR Transforming Environmental Conflicts Environmental Justice Environmental History of the United States Critical Thinking for NR Challenges Nature in Storytelling over the Centuries Environmental Ethics World View and Environmental Values Sustainability, Justice & Engagement | | AG 301 ANTH 352 ANTH 477 ANTH 481 ANTH 482 FW 340 GEOG 241 GEOG 330 HST 481 NR 312 NR 380 PHL 440 PHL/REL 443 SUS 331 | 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 Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU |
| Natural Resource Policy Environmental Law Rural Development Economics & Policy Public Lands Policy & Management Forest Policy Natural Resources Policy and Law Fish & Wildlife Law and Policy Introduction to Ocean Law U.S. Energy Policy Environmental Politics and Policy International Environmental Politics & Policy | | AEC 432 AEC 454 FES 486 FOR 460 FOR 462 FW 415 FW 422 PS 473 PS 475 PS 477 | 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 Available online at OSU |
| Political Issues Plagues, Pests, and Politics Natural Resource Policy and Law Endangered Spec, Society and Sustainability When Science Escapes the Lab The Politics of Climate Change Environmental Politics and Policy Science and Politics International Environmental Politics & Policy Wilderness Management | | ENT/HORT 300 FOR 462 FW 350 NR 351 PS 455 PS 475 PS 476 PS 477 TRAL 352 | 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 |
| Economics Intro to Environmental Economics & Policy Intro to Microeconomics | ECON 201 | AEC 250 ECON 201 | Available online at OSU Available online at OSU |

| NR Core Requirements (continued) <i>Complete one course per category</i> | SWOCC Course | OSU Course | Notes |
|--|---------------------|--|---|
| Social Issues Human Impacts on Ecosystems Human Ecology Issues in Natural Resource Conservation Global Crises in Resource Ecology Sustainability for the Common Good Climate Change, Water and Society Transforming Environmental Conflicts Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab Oceans, Coasts & People Social Dimensions of Sustainability Rural Sociology Environmental Sociology Society and Natural Resources Social Dimensions of Sustainability Recreation Resource Management Outdoor Recreation on Public Lands Wilderness Management Nature, Eco, and Adventure Tourism Communities, Natural Areas, and Tourism Parks & Protected Areas Women and Natural Resources | F 251 | BI 301 BI 348 FES 365 FW 325 GEOG 300 GEOG 240 GEOG 241 GEOG 430 GEOG 431 NR 351 OC 333 SOC 381 SOC 475 SOC 480 SOC 481 SUS 420 TRAL 251 TRAL 351 TRAL 352 TRAL 353 TRAL 354 TRAL 357 WGSS 440 | 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 Available online at OSU Available online at OSU |
| Spatial Analysis Precision Agriculture GIS and Forest Engineering Applications Survey of Geographic Information Systems Foundations of Geospatial Science & GIS Geoscience I: GIS and Theory | | CROP/HORT 414 FE 257 FW 303 GEOG 201 GEOG 360 | Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU |

Courses Required for Fish & Wildlife Conservation Option

| Requirement <i>Complete one course per category unless otherwise noted.</i> | SWOCC Course | OSU Course | Notes |
|---|--------------|---|--|
| Measurements Field Methods in Marine Ecology Field Methods in Ecological Restoration Field Sampling of Fish & Wildlife Field Methods for Marine Research Scientific Methods for Analyzing NR Problems Rangeland Analysis | | BI 373 BI 375 FW 255 FW 493 NR 325 RNG 441 | Available online at OSU Available online at OSU Available online at OSU |
| Forest Types of the Northwest Introduction to Forestry | F 111 | FES 342 FOR 111 | Available online at OSU |
| Wildland Fire Ecology Topics in Wildland Fire Wildland Fire Science and Management | | FES 440 FOR 346 FOR 436 | Available online at OSU Available online at OSU Available online at OSU |
| Biodiversity Conservation in Managed Forests Conservation Genetics | | FES/FW 452 FW 370 | Available online at OSU Available online at OSU |
| Principles of Fish & Wildlife Conservation | | FW 251 | Available online at OSU |
| Fish & Wildlife Biology – complete 3 Biology of Marine Mammals Ornithology Ichthyology Mammalogy Introductory Population Dynamics Applied Community and Ecosystem Ecology Ecology of Marine and Estuarine Birds Fish Ecology Wildlife Ecology Environmental Physiology Herpetology | | FW 302 FW 311 FW 315 FW 317 FW 320 FW 321 FW 331 FW 473 FW 481 Z 423 Z 473 | 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 Available online at OSU Available online at OSU |
| Habitat Management – complete 2 Ecological Restoration Integrated Watershed Management Coastal Ecology and Resource Management Estuarine Ecology Wildlife in Agricultural Ecosystems Freshwater Ecology and Conservation Wetlands and Riparian Ecology Rangeland Ecology and Management Riparian Ecohydrology and Management Ecosystems of Wildland Soils Soil Systems and Plant Growth Soil Morphology and Classification | | FES/FW 445 FW 326 FW 426 FW/OC 434 FW 435 FW 456 FW 479 RNG 341 RNG 455 SOIL 366 SOIL 388 SOIL 466 | 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 Available online at OSU Available online at OSU Available online at OSU |
| Natural Resource Policy Public Lands Policy and Management Endangered Species, Soc and Sustainability Fisheries and Wildlife Law and Policy Human Dimensions in Fish & Wildlife Mgmt Natural Resource Policy and Law | | FES 486 FW 350 FW 415 FW 439 FOR 462 | Available online at OSU Available online at OSU Available online at OSU Available online at OSU |

| Requirement <i>Complete one course per category unless otherwise noted.</i> | SWOCC Course | OSU Course | Notes |
|---|---------------------|-------------------|-------------------------|
| Electives – complete one | | | |
| Oceans in Peril | | BI 347 | |
| Aquatic Biological Invasions | | FW 421 | Available online at OSU |
| Environmental Case Studies | | ENSC 479 | Available online at OSU |
| Human Dimensions in Fish & Wildlife Mgmt | | FW 439 | Available online at OSU |
| Mgmt Principles of Pacific Salmon in NW | | FW 323 | Available online at OSU |
| Origins of Fish & Wildlife Management | | FW 360 | Available online at OSU |
| Environmental Contaminants in F&W | | FW 366 | Available online at OSU |
| Natural History of Whales and Whaling | | FW 419 | Available online at OSU |
| Principles of Wildlife Disease | | FW 427 | Available online at OSU |
| Dynamics of Marine Biological Resources | | FW 431 | |
| Avian Conservation and Management | | FW 451 | Available online at OSU |
| Fishery Biology | | FW 454 | Available online at OSU |
| Ecosystems Services | | FW 462 | Available online at OSU |
| Marine Fisheries | | FW 465 | |
| Antarctic Science and Conservation | | FW 467 | |
| Phys and Behavior of Marine Megafauna | | FW 469 | Available online at OSU |
| Environmental Physiology of Fishes | | FW 471 | |
| Early Life History Fishes | | FW 474 | |
| Wildlife Behavior | | FW 475 | Available online at OSU |
| Fish Physiology | | FW 476 | Available online at OSU |
| Aquaculture | | FW 497 | Available online at OSU |
| Aquaculture Laboratory | | FW 498 | |
| Scientific Methods for Analyzing NR Problems | | NR 325 | |
| Oceans, Coasts, and People | | OC 333 | Available online at OSU |
| Biological Oceanography | | OC 444 | |
| Habitat Analysis I | | RNG 457 | Available online at OSU |
| Biodiv: Causes, Consequences, Conservation | | Z 349 | Available online at OSU |
| Animal Behavior | | Z 350 | Available online at OSU |
| Biology of Insects | | Z 365 | |
| Aquatic Entomology | | Z 477 | |

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 SWOCC courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college

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|----------------------------|--|---|
| 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 PE 231 @ SWOCC |
| 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: BI 201 @ SWOCC Completed as part of major: CHEM 221 @ SWOCC Completed as part of major: BI 202 @ SWOCC Choose one course from Bacc Core link above Choose one course from Bacc Core link above Completed as part of major: ECON 201 @ SWOCC 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 visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

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| Southwestern Oregon Community College | Tasha Livingstone , Faculty in Forestry & Natural Resources Tasha.livingstone@socc.edu , 541-888-7284 |
| OSU College of Forestry Prospective Student Advisor | Autumn VanderLinden 541-737-9135 Autumn.VanderLinden@oregonstate.edu |