

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

**CORVALLIS**

**Treasure Valley  
Community College**

## Natural Resources Major with Forest Ecosystems Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Students will understand the nature of forest ecosystems and the process by which they function.

Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

## 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/forest-ecosystems](http://forestry.oregonstate.edu/undergraduate-programs/natural-resources/forest-ecosystems)

## Courses Required for Natural Resources Major

| NR Core Requirements                         | TVCC 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              | NATR 111    | 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 |
| <b>Advanced Communication</b>                |             |            |                         |
| 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 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     |                         |
| <b>Biology I</b>                             |             |            |                         |
| Introduction to Biology I                    |             | BI 204     | Available online at OSU |
| Principles of Biology: Cells                 | BIOL 211    | BI 221     |                         |

| <b>NR Core Requirements</b> (continued)<br><i>Complete one course per category</i>   | <b>TVCC Course</b>                   | <b>OSU Course</b>   | <b>Notes</b>  |
|--|--------------------------------------|---|---|
| <b>Biology II</b><br>Introduction to Biology II<br>Principles of Biology: Organisms  | BIOL 213                             | BI 205<br>BI 222  | Available online at OSU   |
| <b>Biology III</b><br>Introduction to Biology III<br>Principles of Biology: Populations  | BIOL 212                             | BI 206<br>BI 223  | Available online at OSU   |
| <b>Chemistry</b><br>General Chemistry I with Lab<br>General Chemistry (Majors) I with Lab  | CHEM 121<br>CHEM 221                 | CH 121<br>CH 231 & 261  | Available online at OSU<br>Available online at OSU  |
| <b>Climate Science</b><br>Climate Science<br>Global Change Biology<br>Climatology<br>Intro to Climate Change   |                                      | ATS 201<br>FW 345<br>GEOG 323<br>SUS 103  | Available online at OSU<br>Available online at OSU<br>Available online at OSU   |
| <b>Soil Science</b><br>Soil Science<br>Principles of Soil Science<br>Soil Science with Lab<br>Soil Science with Forest Soils Lab   | CSS 205                              | CSS 205<br>CSS 305<br>SOIL 205 & 206<br>SOIL 205 & FOR 206  | Available online at OSU   |
| <b>Ecology</b><br>Marine Ecology<br>General Ecology<br>Plant Ecology   |                                      | BI 351<br>BI 370<br>BOT 341   | Available online at OSU<br>Available online at OSU<br>Available online at OSU   |
| <b>Mathematics</b><br>Elementary Functions<br>Calculus for Mgmt, Life, and Social Science<br>Math for Mgmt, Life, and Social Science<br>Differential Calculus  | MATH 112<br>MATH 241<br><br>MATH 251 | MTH 112<br>MTH 241<br>MTH 245<br>MTH 251  | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |
| <b>Statistics</b><br>Principles of Statistics<br>Intro to Statistical Methods  | MTH 243                              | ST 201<br>ST 351  | Available online at OSU<br>Available online at OSU  |
| <b>Animal ID</b><br>Terrestrial Vertebrate ID & Natural History<br>Forest Entomology<br>Systematics of Birds<br>Systematics of Fishes<br>Systematics of Mammals<br>Biology of Insects<br>Herpetology<br>Aquatic Entomology   |                                      | FOR 210<br>FES 412<br>FW 312<br>FW 316<br>FW 318<br>Z 365<br>Z 473<br>Z 477   | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |
| <b>Environ. Assessment &amp; Planning</b><br>Ecological Restoration<br>Ecosystems Services<br>Land Use Planning for Sust. Communities<br>Land Use in the American West<br>Planning Principles for Resilient Communities<br>Sustainable Site Planning<br>Scientific Methods for Analyzing NR Problems<br>Wildland restoration and Ecology<br>Habitat Analysis I<br>Rangeland Management and Planning<br>Sustainability Assessment<br>Sustainable Communities<br>Planning for Sustainable Recreation<br>Planning for Sustainable Tourism |                                      | FES/FW 445<br>FW 462<br>GEOG 250<br>GEOG 450<br>GEOG 451<br>GEOG 452<br>NR 325<br>RNG 421<br>RNG 457<br>RNG 490<br>SUS 304<br>SUS 350<br>TRAL 456<br>TRAL 457 | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU |

| <b>NR Core Requirements</b> (continued)<br><i>Complete one course per category</i>   | <b>TVCC Course</b> | <b>OSU Course</b>   | <b>Notes</b>   |
|--|--------------------|---|--|
| <b>Fish &amp; Marine Sciences</b><br>Intro to Marine Biology<br>Biology of Marine Mammals<br>Oceans in Peril<br>Marine Ecology<br>Intro to Population Dynamics<br>Mgmt Principles of Pacific Salmon in the NW<br>Coastal Ecology and Resource Management<br>Fishery Biology<br>Marine Fisheries<br>Fish Ecology<br>Wildlife Ecology<br>Oceanography<br>Coastal Oceanography  | GSCI 108           | BI 150<br>FW 302<br>BI 347<br>BI 351<br>FW 320<br>FW 323<br>FW 426<br>FW 454<br>FW 465<br>FW 473<br>FW 481<br>OC 201<br>OC 332  | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU   |
| <b>Forestry</b><br>International Forestry<br>Forest Biology<br>Forest Types of the Northwest<br>Urban Forestry<br>Ecological Restoration<br>Agroforestry<br>Topics in Wildland Fire  |                    | FE/FOR 456<br>FES 240<br>FES 342<br>FES/HORT 350<br>FES/FW 445<br>FES/NR 477<br>FOR 346   | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |
| <b>Land &amp; Water</b><br>TVCC Course: Intro to Watershed Mgmt.<br>Watershed Processes<br>Forest Watershed Management<br>Integrated Watershed Management<br>Freshwater Ecology and Conservation<br>Wetlands and Riparian Ecology<br>Minerals, Energy, Water and the Environment<br>National Park Geology and Preservation<br>Global Change and Earth Sciences<br>Introduction to Water Science & Policy<br>Water Resources Management in the U.S.<br>International Water Resource Management<br>Desert Water Shed Management<br>Riparian Ecohydrology and Management<br>Ecosystems of Wildland Soils<br>Soil Systems and Plant Growth<br>World Soil Resources<br>Soil Morphology and Classification | NATR 218           | NR LDT<br>FE 430<br>FE 434<br>FW 326<br>FW 456<br>FW 479<br>GEO 306<br>GEO 307<br>GEO 308<br>GEOG 340<br>GEOG 440<br>GEOG 441<br>RNG 355<br>RNG 455<br>SOIL 366<br>SOIL 388<br>SOIL 395<br>SOIL 466 | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU |
| <b>Range</b><br>Ecological Restoration<br>Topics in Wildland Fire<br>Rangeland Ecology and Management<br>Range Ecology I – Grasslands<br>Range Ecology II – Shrub Lands<br>Wildland Restoration and Ecology<br>Rangeland Analysis<br>Rangeland-Animal Relations<br>Rangeland Management and Planning   | NATR 241           | FES/FW 445<br>FOR 346<br>RNG 341<br>RNG 351<br>RNG 352<br>RNG 421<br>RNG 441<br>RNG 442<br>RNG 490  | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |
| <b>Vegetation ID</b><br>TVCC Course: Applied Botany<br>Plant Systematics<br>Agrostology<br>Flora of the Pacific Northwest<br>Dendrology<br>Landscape Plant Materials I: Decid & Conifers<br>Landscape Plant Materials II: Shrubs<br>Wildland Plant Identification  | NATR 103           | BOT LDT<br>BOT 321<br>BOT 414<br>BOT 425<br>FES 241<br>HORT 226<br>HORT 228<br>RNG 353  | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |

| <b>NR Core Requirements</b> (continued)<br><i>Complete one course per category</i>   | <b>TVCC Course</b> | <b>OSU Course</b>  | <b>Notes</b>   |
|--|--------------------|--|--|
| <b>Wildlife Management</b><br>Principles of Fish & Wildlife Conservation<br>Introductory Population Dynamics<br>Applied Community and Ecosystem Ecology<br>Wildlife in Agricultural Ecosystems<br>Avian Conservation and Management<br>Mammal Conservation and Management<br>Wildlife Ecology<br>Animal Behavior   | NATR 252           | FW 251<br>FW 320<br>FW 321<br>FW 435<br>FW 451<br>FW 458<br>FW 481<br>Z 350  | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU   |
| <b>Ethics &amp; Philosophy</b><br>Ecosystems Science of the PNW Indians<br>Anthropology, Health, and the Environment<br>Ecological Anthropology<br>Natural Resources and Community Values<br>Anthropology of International Development<br>Multicultural Perspectives in NR<br>Transforming Environmental Conflicts<br>Environmental Justice<br>Environmental History of the United States<br>Critical Thinking for NR Challenges<br>Nature in Storytelling over the Centuries<br>Environmental Ethics<br>World View and Environmental Values<br>Sustainability, Justice & Engagement   |                    | AG 301<br>ANTH 352<br>ANTH 477<br>ANTH 481<br>ANTH 482<br>FW 340<br>GEOG 241<br>GEOG 330<br>HST 481<br>NR 312<br>NR 380<br>PHL 440<br>PHL/REL 443<br>SUS 331   | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU         |
| <b>Political Issues</b><br>Plagues, Pests, and Politics<br>Natural Resource Policy and Law<br>Endangered Spec, Society and Sustainability<br>When Science Escapes the Lab<br>The Politics of Climate Change<br>Environmental Politics and Policy<br>Science and Politics<br>International Environmental Politics & Policy<br>Wilderness Management   |                    | ENT/HORT 300<br>FOR 462<br>FW 350<br>NR 351<br>PS 455<br>PS 475<br>PS 476<br>PS 477<br>TRAL 352  | Available online at OSU<br><br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |
| <b>Economics</b><br>Intro to Environmental Economics & Policy<br>Intro to Microeconomics   | EC 201             | AEC 250<br>ECON 201  | Available online at OSU<br>Available online at OSU   |
| <b>Social Issues</b><br>Human Impacts on Ecosystems<br>Human Ecology<br>Issues in Natural Resource Conservation<br>Global Crises in Resource Ecology<br>Sustainability for the Common Good<br>Climate Change, Water and Society<br>Transforming Environmental Conflicts<br>Resilience-Based Natural Resource Mgmt<br>Global Resource Development<br>When Science Escapes the Lab<br>Oceans, Coasts & People<br>Social Dimensions of Sustainability<br>Rural Sociology<br>Environmental Sociology<br>Society and Natural Resources<br>Social Dimensions of Sustainability<br>Recreation Resource Management<br>Outdoor Recreation on Public Lands<br>Wilderness Management<br>Nature, Eco, and Adventure Tourism<br>Communities, Natural Areas, and Tourism<br>Parks & Protected Areas<br>Women and Natural Resources | NATR 251           | BI 301<br>BI 348<br>FES 365<br>FW 325<br>GEOG 300<br>GEOG 240<br>GEOG 241<br>GEOG 430<br>GEOG 431<br>NR 351<br>OC 333<br>SOC 381<br>SOC 475<br>SOC 480<br>SOC 481<br>SUS 420<br>TRAL 251<br>TRAL 351<br>TRAL 352<br>TRAL 353<br>TRAL 354<br>TRAL 357<br>WGSS 440 | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br><br>Available online at OSU |
| <b>Spatial Analysis</b><br>Precision Agriculture<br>GIS and Forest Engineering Applications<br>Survey of Geographic Information Systems<br>Foundations of Geospatial Science & GIS<br>Geoscience I: GIS and Theory   | GEOG 265           | CROP/HORT 414<br>FE 257<br>FW 303<br>GEOG 201<br>GEOG 360  | Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU<br>Available online at OSU  |

## Courses Required for Forest Ecosystems Option

| <b>Requirement</b><br><i>Complete one course per category unless otherwise noted</i>                                   | <b>TVCC Course</b> | <b>OSU Course</b>            | <b>Notes</b>            |
|--|--------------------|------------------------------|-------------------------|
| <b>Measurements</b><br>Field Methods in Ecological Restoration<br>Field Methods in Plant Ecology<br>Forest Mensuration |                    | BI 375<br>BOT 440<br>FOR 321 | Available online at OSU |
| Forest Ecology   |                    | FES 341                      | Available online at OSU |
| Forest Entomology  |                    | FES 412                      |                         |
| Wildland Fire Ecology  |                    | FES 440                      | Available online at OSU |
| Biodiversity Conservation in Managed Forests   |                    | FES/FW 452                   | Available online at OSU |
| Forest Pathology   |                    | FOR 413                      |                         |
| Wildland Fire Science & Management   |                    | FOR 436                      | Available online at OSU |
| Silviculture Principles  |                    | FOR 441                      |                         |
| <b>Ecology Breath – choose two classes</b>   |                    |                              |                         |
| Plant Systematics  |                    | BOT 321                      |                         |
| Plant Ecology  |                    | BOT 341                      | Available online at OSU |
| Flora of the Pacific Northwest   |                    | BOT 425                      |                         |
| Forest Watershed Management  |                    | FE 434                       |                         |
| Ecological Restoration   |                    | FES/FW 445                   | Available online at OSU |
| Agroforestry   |                    | FES/NR 477                   |                         |
| Principles of Fish & Wildlife Conservation   |                    | FW 251                       | Available online at OSU |
| Ornithology  |                    | FW 311                       | Available online at OSU |
| Ichthyology  |                    | FW 315                       | Available online at OSU |
| Mammalogy  |                    | FW 317                       | Available online at OSU |
| Introductory Population Dynamics   |                    | FW 320                       | Available online at OSU |
| Applied Community and Ecosystem Ecology  |                    | FW 321                       | Available online at OSU |
| Avian Conservation and Management  |                    | FW 451                       | 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                       |                         |
| Wildlife Ecology   |                    | FW 481                       | Available online at OSU |
| Scientific Methods for Analyzing NR Problems   |                    | NR 325                       |                         |
| Range Ecology I – Grasslands   |                    | RNG 351                      | Available online at OSU |
| Range Ecology II – Shrublands  |                    | RNG 352                      | 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 |
| Soil morphology and Classification   |                    | SOIL 466                     | Available online at OSU |
| Biodiversity: Causes, Consequences, Conserv.   |                    | Z 349                        | Available online at OSU |
| Herpetology  |                    | Z 473                        | Available online at OSU |
| <b>Technical Electives – choose one</b>  |                    |                              |                         |
| Forest Surveying   |                    | FE 208                       | Available online at OSU |
| Forest Photogrammetry & Remote Sensing   |                    | FE 209                       |                         |
| Harvesting Operations  |                    | FE 370                       |                         |
| Forestry Remote Sensing & Photogrammetry   |                    | FE 444                       |                         |
| Arboriculture  |                    | FES 447                      | Available online at OSU |
| Foundations of Geospatial Science & GIS  |                    | GEOG 201                     | Available online at OSU |
| Geoscience I: GIS and Theory   | GEOG 285           | GEOG 360                     | Available online at OSU |
| Intro to Statistical Methods I   |                    | ST 351                       | Available online at OSU |
| Intro to Statistical Methods II  |                    | ST 352                       | 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 TVCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-community-college)

|                            |  |   |
|----------------------------|--|---|
| <b>SKILLS COURSES</b>      | Math<br>Writing I<br>Writing II<br>Speech (Writing III)<br>Fitness   | Completed as part of major: MTH 112 or higher WR 121. Required to transfer.<br>Can be completed as part of major: see advisor<br>Choose one course from Bacc Core link above<br>HPE 295 @ TVCC  |
| <b>PERSPECTIVE COURSES</b> | Biological Science<br>Physical Science<br>Additional Biological or Physical Science<br>Cultural Diversity<br>Literature and the Arts<br>Social Processes and Institutions<br>Western Culture | Completed as part of major: Biology I<br>Completed as part of major: Chemistry<br>Completed as part of major: Biology II<br>Choose one course from Bacc Core link above<br>Choose one course from Bacc Core link above<br>Completed as part of major: EC 201<br>Choose one course from Bacc Core link above |
| <b>DPD COURSE</b>          | Difference, Power, & Discrimination  | Can be completed as part of major: see advisor  |
| <b>SYNTHESIS COURSES</b>   | Contemporary Global Issues<br>Science, Technology, & Society   | Upper division course, take through OSU<br>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](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

|  |   |
|--|---|
| <b>Treasure Valley Community College</b>                   | Marcus Nichols, Natural Resources Faculty<br>541-881-5968<br><a href="mailto:mnichols@tvcc.cc">mnichols@tvcc.cc</a>                 |
| <b>OSU College of Forestry Prospective Student Advisor</b> | Autumn VanderLinden<br>541-737-9135<br><a href="mailto:Autumn.VanderLinden@oregonstate.edu">Autumn.VanderLinden@oregonstate.edu</a> |