

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

## Major Offered At:

CORVALLIS

ECAMPUS

CASCADES

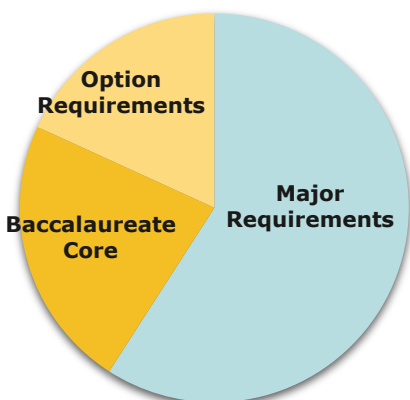
Shasta College

## 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 124 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	Shasta 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	AGNR 1	NR 201	Available online at OSU
Natural Resources Decision Making		NR 455	Available online at OSU
<b>Advanced Communication:</b> 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 Forest as Classroom Effective Comm in Fish & Wildlife Sciences Critical thinking for NR Challenges Environmental Interpretation Technical Writing Science Writing Environmental Writing Professional Writing		COMM 321 COMM 322 COMM 324 COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 FES 430 FW 489 NR 312 TRAL 493 WR 327 WR 362 WR 462 WR 466	Available online at OSU Available online at OSU
<b>Biology I</b> Introduction to Biology I Principles of Biology I with Lab		BI 204 BI 211	Available online at OSU
<b>Biology II</b> Introduction to Biology II Principles of Biology II with Lab	BIOL 1	BI 205 BI 212	Available online at OSU

<b>NR Core Requirements</b> (continued) <i>Complete one course per category</i>	<b>Shasta Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Biology III</b> Introduction to Biology III Principles of Biology III with Lab		BI 206 BI 213	Available online at OSU
<b>Chemistry</b> General Chemistry I with Lab General Chemistry (Majors) I with Lab	CHEM 1A	CH 121 CH 231 & 261	Available online at OSU Available online at OSU
<b>Climate Science</b> Climate Science Global Change Biology Climatology Intro to Climate Change		ATS 201 FW 345 GEOG 323 SUS 103	Available online at OSU Available online at OSU Available online at OSU
<b>Earth or Soil Science</b> 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	ESCI 1 ESCI 17 ESCI 10 GEOG 1A AGPS 24	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
<b>Ecology</b> 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
<b>Mathematics</b> Elementary Functions Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science Differential Calculus	MATH 2B MATH 9 MATH 9 MATH 3A	MTH 112 MTH 241 MTH 245 MTH 251	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
<b>Statistics</b> Principles of Statistics Intro to Statistical Methods	MATH 14	ST 201 ST 351	Available online at OSU Available online at OSU
<b>Animal ID</b> Forest Entomology Systematics of Birds Systematics of Fishes Systematics of Mammals Biology of Insects Herpetology Aquatic Entomology		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
<b>Environ. Assessment &amp; Planning</b> Ecological Restoration Ecosystems Services Land Use Planning for Sust. Communities Land Use in the American West Planning Principles for Resilient Communities Sustainable Site Planning Wildland restoration and Ecology Rangeland Management and Planning Sustainability Assessment Sustainable Communities Planning for Sustainable Recreation Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems		FES/FW 445 FW 462 GEOG 250 GEOG 450 GEOG 451 GEOG 452 RNG 421 RNG 490 SUS 304 SUS 350 TRAL 456 TRAL 457 NR 325	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



<b>NR Core Requirements</b> (continued) <i>Complete one course per category</i>	<b>Shasta Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Wildlife Management</b> Shasta Course: Wildlife Conservation & Mgmt 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	AGNR 70	FW LDT 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
<b>Ethics &amp; Philosophy</b> 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 Environmental Justice Environmental History of the United States Critical Thinking for NR Challenges Environmental Ethics World View and Environmental Values		AG 301 ANTH 352 ANTH 477 ANTH 481 ANTH 482 FW 340 GEO 309 HST 481 NR 312 PHL 440 PHL/REL 443	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
<b>Natural Resource Policy</b> Shasta Course: Environmental Law & 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	AGNR 12	FES LDT 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
<b>Political Issues</b> 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
<b>Resource Economics</b> Natural Resource Economics and Policy Environmental Economics and Policy Rural Development Economics and Policy Forest Resource Economics I		AEC 351 AEC/ECON 352 AEC 454 FOR 329	Available online at OSU Available online at OSU Available online at OSU

<b>NR Core Requirements</b> (continued) <i>Complete one course per category</i>	<b>Shasta Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Social Issues</b> Management for Multiple Resource Values Issues in Natural Resource Conservation Global Crises in Resource Ecology Sustainability for the Common Good Climate Change, Water and Society Resilience-Based Natural Resource Mgmt Global Resource Development When Science Escapes the Lab 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 Women and Natural Resources		FES 355 FES 365 FW 325 GEOG 300 GEOG 240 GEOG 430 GEOG 431 NR 351 SOC 381 SOC 475 SOC 480 SOC 481 SUS 420 TRAL 251 TRAL 351 TRAL 352 TRAL 353 TRAL 354 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
<b>Spatial Analysis</b> Precision Agriculture GIS and Forest Engineering Applications Survey of Geographic Information Systems Foundations of Geospatial Science & GIS Geoscience I: GIS and Theory	GEOG 13	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

<b>Requirement</b> <i>Complete one course per category unless otherwise noted.</i>	<b>Shasta Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Measurements</b> Field Methods in Marine Ecology Field Sampling of Fish & Wildlife Field Methods for Marine Research Scientific Methods for Analyzing NR Problems Rangeland Analysis		BI 373 FW 255 FW 493 NR 325 RNG 441	Available online at OSU  Available online at OSU
Forest Types of the Northwest Introduction to Forestry	ANGR 55	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
<b>Fish &amp; Wildlife Biology – complete 3</b> 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

<b>Requirement</b> <i>Complete one course per category unless otherwise noted.</i>	<b>Shasta Course</b>	<b>OSU Course</b>	<b>Notes</b>
<b>Habitat Management – complete 2</b> 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
<b>Natural Resource Policy</b> 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
<b>Electives – complete 2</b> Oceans in Peril Aquatic Biological Invasions Environmental Case Studies Human Dimensions in Fish & Wildlife Mgmt Mgmt Principles of Pacific Salmon in NW Origins of Fish & Wildlife Management Environmental Contaminants in F&W Natural History of Whales and Whaling Principles of Wildlife Disease Dynamics of Marine Biological Resources Avian Conservation and Management Fishery Biology Ecosystems Services Marine Fisheries Antarctic Science and Conservation Phys and Behavior of Marine Megafauna Environmental Physiology of Fishes Early Life History Fishes Wildlife Behavior Fish Physiology Aquaculture Aquaculture Laboratory Natural Resource Problems and Solutions Scientific Methods for Analyzing NR Problems Biodiv: Causes, Consequences, Conservation Animal Behavior Biology of Insects Aquatic Entomology		BI 347 FW 421 ENSC 479 FW 439 FW 323 FW 360 FW 366 FW 419 FW 427 FW 431 FW 451 FW 454 FW 462 FW 465 FW 467 FW 469 FW 471 FW 474 FW 475 FW 476 FW 497 FW 498 NR 202 NR 325 Z 349 Z 350 Z 365 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.

<b>SKILLS COURSES</b>	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 HHS 231 & 241/PAC Course
<b>PERSPECTIVE COURSES</b>	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 AEC 250 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 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](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

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<b>OSU College of Forestry Prospective Student Advisor</b>	Autumn Granger 541-737-9135 <a href="mailto:Autumn.granger@oregonstate.edu">Autumn.granger@oregonstate.edu</a>