



## COCC TRANSFER GUIDE

### BS- NATURAL RESOURCES

#### SPECIALTY OPTION: FISH AND WILDLIFE

Students who graduate with a BS degree in Natural Resources from OSU will learn to integrate technical field or laboratory skills with analytical skills to solve critical natural resource problems. The curriculum is designed to help students acquire knowledge about a range of natural resource issues, work in interdisciplinary teams, and deal with social and political aspects of resource management.

Students will acquire knowledge in biophysical sciences, social sciences, math and statistics. They will learn holistic resource management approaches that emphasize the interconnectedness of humans and the environment. In addition, students will develop a toolbox of resource management skills such as communication, collaboration, analysis, assessment and planning. They will explore the conservation and management of key resources which include fish and wildlife, land and water resources, and a wide range of ecosystems from forests to rangelands. A disciplinary depth in a focused area is developed through a required specialization option. Students may choose from a number of pre-approved options, or create an individualized (student designed) specialization option.

#### FISH AND WILDLIFE CONSERVATION

This option prepares students for a career in the broad arena of natural resource and wildlife conservation. It emphasizes understanding the relationship between animal species and their habitat requirements and the ability to apply this knowledge to the management of ecosystems as a means of conserving fish and wildlife.

Minimum of 37 credits is required with at least 20 upper division credits.

To complete a Bachelor of Science (BS) in Natural Resources students must complete the following degree requirements:

- OSU Graduation Requirements
- Baccalaureate Core
- Natural Resource Major Requirements
- Specialty Option Requirements

#### OSU Graduation Requirements:

*Students pursuing a degree at OSU must meet the following requirements in addition to program and college requirements.*

- 180—total number of credits required to graduate from OSU
- 60—number of upper division credits required (300-400 level courses)
- 135—maximum number of credits that will transfer from a community college
- 45 of last 75 credits must be OSU credits
- Maintain a 2.0 or better university GP

## Bacc Core Requirements

All Skills and Perspectives are completed with an AAOT. If student does not have an AAOT they can use the COCC Bacc Core Guide to pick out course needed to meet the Skills and Perspectives requirements.

BACCALAUREATE CORE			
Link to COCC Bacc Core Table			
<a href="https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college">https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college</a>			
Skills	NON-AAOT	AAOT	fulfilled
Lifetime Fitness (2)	HHP 295	AAOT Completes	
Mathematics (4)	Fulfilled By Major	AAOT Completes	
Writing I (3)	WR 121	AAOT Completes	
Writing II (3)	WR 227 recommended fulfills Advanced Communication	AAOT Completes	
Speech (3)	Use COCC Bacc Core Table	AAOT Completes	
Perspectives -No more than 2 courses from one department may be used to satisfy the following requirements			
Cultural Diversity (3-4)	Use COCC Bacc Core Table	AAOT Completes	
Literature & Arts	Use COCC Bacc Core Table	AAOT Completes	
Soc. Processes & Inst, (3)	Fulfilled by Major	AAOT Completes	
Western Culture	Use COCC Bacc Core Table	AAOT Completes	
Physical Science	Fulfilled by Major	AAOT Completes	
Biological Science	Fulfilled by Major	AAOT Completes	
Additional Phys or Bio Science	Fulfilled by Major	AAOT Completes	
Difference, Power, & Discrim.	Fulfilled by Major (if selected)	AAOT Completes	
Synthesis			
Contemporary Global Issues	In major (if selected)- OSU only	OSU ONLY	
Science, Tech & Society	Fulfilled by Major-OSU ONLY	OSU ONLY	
Writing Intensive Course			
WIC	ENSC 479 recommended can be used in Specialization Option- OSU ONLY	OSU ONLY	

Natural Resources- OSU-Cascades

NATURAL RESOURCES MAJOR REQUIREMENTS Curriculum (NR3)	
*IMPORTANT COURSES CAN'T DOUBLE COUNT IN THIS SECTION*	
Interdisciplinary Foundations (10 credits) Required	
OSU-Cascades Courses	COCC Courses
NR 201 (3) Managing NR for the Future	No Equivalent at COCC
NR 202 (3) Natural Resources Problems and Solutions	No Equivalent at COCC
FES 485 (3) Consensus of Natural Resources	No Equivalent at COCC
NR 455 (4) NR Decision Making (Capstone)	No Equivalent at COCC
Advanced Communication (3-4 credits) Choose One	
COMM 321 or COMM 328 or COMM 440, or WR 327	WR 227
Biophysical Science (28 Credits)	
Biology (choose one sequence)	
Bio 101, 102, 103 or BI 221,222, 223 200- level Biology preferred, and the whole sequence should be completed at the same institution	Bi 101, 102, 103 <b>or</b> BI 211, 212, 213 (200 level highly recommended)
Chemistry (choose one)	
CHEM 121 or CHEM 231/261	CH 104 (5)- CH 104 will not allow students to take BI 200 series at OSU <b>or</b> CH 221 (5)*200 level highly recommended
Climate Change	
ATS 201 (4)	GEOG 279 (3)
Earth Science <u>OR</u> Soil Science (choose one)	
Soil 205/206 lab (4)	G201(4) Geology I, <b>or</b> G202 (4) Geology II, <b>or</b> FOR 208 (4) Soils: Sustainable Ecosystems
Ecology (choose one)	
BI 370 or FES 341	No Equivalent at COCC
Mathematics and Statistics (8)	
Mathematics (choose one)	
MTH 112 or MTH 241 or MTH 245 or MTH 251	MTH 112 <b>or</b> MTH 241 <b>or</b> MTH 245 <b>or</b> MTH 251
Statistics (choose one)	
ST 201 or ST 351	MTH 243 (4) Intro. to Probability & Statistics I
Resource Management (23-31 credits)	
Animal ID (choose one)	
FW 312 or FW 318 or Z 477	FW 212 or FW 218
Environmental Assessment and Planning (choose one)	
FES 445 or SUS 304 or SUS 350	No Equivalent at COCC
Fisheries and Marine Science (choose one)	
FW 320 or FW 323 or FW 481 (EOY)	GS 108

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Forestry (choose one)	
FES 341 or FES 342 or FES 440 or FES 445	FOR240A
Land & Water (choose one)	
GEOG 340 or RNG 355 (EOY) or RNG 455 (EOY) or SOIL 366	No Equivalent at COCC
Range (choose one)	
FES 440 or FES 445 or RNG 341	No Equivalent at COCC
Vegetation ID (choose one)	
RNG 353 (3) Wildland Plant Identification	BI 202 (4) or FOR 241A (3) Field Dendrology or FOR 241B (3) Dendrology
Wildlife Management (choose one)	
FW 251 or FW 320 (EOY) or FW 481 (EOY)	FW 251 (3) or PSY 227 (4)
Social and Political Dimensions (15-20 Credits)	
Ethics and Philosophy	
GEOG 309 (3) Environmental Justice	No Equivalent at COCC
Natural Resource Policy	
PS 475 (4) Environmental Politics and Justice	No Equivalent at COCC
Political Issues	
FW 350 (3) Endangered Species, Society & Sustainability	No Equivalent at COCC
Economics	
ECON 201 (4) Microeconomics	ECON 201 (4) Microeconomics
Social Issues (choose one)	
FES 365 or SOC 480 or SUS 420 or TRAL 353	FOR 251 (3) Recreational Resource Management or FW 257 Hunting in Society (4)
Spatial Analysis (3-4 credits)	
GEOG 360 (3) GISCIENCE I: GIS & Theory	GEOG 265 (4) Geographic Information Systems or GEOG 266 (5) Arc GIS

### FISH AND WILDLIFE CONSERVATION SPECIALIZATION OPTION REQUIREMENTS

\*IMPORTANT COURSES USED FOR NR MAJOR REQUIREMENTS & OPTION CAN'T DOUBLE COUNT\*

Minimum of 37 credits is required with at least 20 upper division credits.

Measurements (3-4 credits) choose one	
BI 375 or FW 255	FOR 235 (4) Resource Measurements
Foundations of Conservation (12-14 credits) REQUIRED	
FES 342(3) or FOR 111 (3)	FOR 111 (4) Forestry Perspectives
FES 440 (3) Wildland Fire Ecology	No Equivalent at COCC
<i>FES/FW 452 online only or FW 370 online only</i>	No Equivalent at COCC
FW 251 (3) Principles of Fish & Wildlife Conservation	FW 251 (3) Wildlife Conservation
Fish and Wildlife Biology (9-12 credits) Choose Three	
FW 311 (3) Ornithology (EOY)	No Equivalent at COCC
FW 317 (3) Mammalogy (EOY)	No Equivalent at COCC

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FW 320 (4) Intro Population Dynamics (EOY)	No Equivalent at COCC
FW 481(4) Wildlife Ecology (EOY)	No Equivalent at COCC
Habitat Management (6-9 credits) choose two	
FES 445 (4) Ecological Restoration	No Equivalent at COCC
FW 479 (3) or RNG 455 (4)	No Equivalent at COCC
RNG 341 (3) Rangeland Ecology and Management	No Equivalent at COCC
SOIL 366 (4) Ecosystems of Wildland Soils	No Equivalent at COCC
Natural Resource Policy (3 Credits) choose one	
FW 350 (3) Endangered Species, Society & Sustainability	No Equivalent at COCC
<i>FW 415 (3) Fisheries &amp; Wildlife Law &amp; Policy online only</i>	No Equivalent at COCC
<i>FW 439 (3) Human Dimensions of Fish &amp; Wildlife online only</i>	No Equivalent at COCC
<i>FOR 462 (3) Natural Resource Policy and Law online only</i>	No Equivalent at COCC
Elective (3-4)	
ENSC 479 (4) Environmental Case Studies WIC	No Equivalent at COCC
FW 323 (3) Management of Pacific Salmon	No Equivalent at COCC
Z 349 (3) Biodiversity: Causes, Consequences and Conservation	No Equivalent at COCC
Z 477 (4) Aquatic Entomology	No Equivalent at COCC
<b>NOTE: Up to 6 Credits of appropriate internships, projects or study abroad may be used to fulfill credit requirements in this option as approved by petition</b>	

### Degree Planning Notes:

- Transfer Admissions Advising [osucascades.edu/admissions/admissions-advising](https://osucascades.edu/admissions/admissions-advising)
- Consider applying for Degree Partnership Program (DPP).
- Use OSU-Cascades major webpages to find more resources to plan classes and when to transfer.
- Students completing an AAOT should use this guide to help you select and plan classes and requirements