



2020/2021: 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 40 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)
- 124—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 | | | |
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| Link to COCC Bacc Core course guide http://osucascades.edu/sites/osucascades.edu/files/Advising/cocc_bacccore_courseguide_0.pdf | | | |
| Skills | NON-AAOT | AAOT | GR |
| 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) | Visit COCC Bacc Core Course Guide link above | AAOT Completes | |
| Perspectives -No more than 2 courses from one department may be used to satisfy the following requirements | | | |
| Cultural Diversity (3-4) | Visit COCC Bacc Core Course Guide link above | AAOT Completes | |
| Literature & Arts | Visit COCC Bacc Core Course Guide link above | AAOT Completes | |
| Soc. Processes & Inst, (3) | Fulfilled by Major | AAOT Completes | |
| Western Culture | Visit COCC Bacc Core Course Guide link above | 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 | 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 2018/2019 Curriculum (NR3) | |
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| *IMPORTANT COURSES CAN'T DOUBLE COUNT IN THIS SECTION* | |
| Interdisciplinary Foundations (10 credits) Required | |
| OSU-Cascades Courses | COCC Courses |
| FES 485 (3) Consensus of Natural Resources | No Equivalent at COCC |
| NR 201 (3) Managing NR for the Future | 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 or 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 or 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, or G202 (4) Geology II, or 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 or MTH 241 or MTH 245 or 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 |
| Forestry (choose one) | |
| FES 341 or FES 342 or FES 440 or FES 445 | FOR240A |

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| 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 | 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 |
| 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 40 credits is required with at least 20 upper division credits.

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| 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 |
| 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 | |

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| 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 & Wildlife Law & Policy online only</i> | No Equivalent at COCC |
| <i>FW 439 (3) Human Dimensions of Fish & Wildlife online only</i> | No Equivalent at COCC |
| <i>FOR 462 (3) Natural Resource Policy and Law online only</i> | No Equivalent at COCC |
| Electives (6-8 credits) choose two | |
| 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 |
| 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 | |

Degree Planning Notes:

- Connect with OSU-Cascades Transfer Admissions Advisor: Carmen Martinez
carmen.martinez@osucascades.edu
- 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