The undergraduate curriculum for the Fisheries and Wildlife Sciences BS degree (180 credits) is composed of core courses as well as specializations of 24 credits. The core represents the educational foundation of fish and wildlife conservation, and the specializations provide students with an opportunity to build their curriculum to meet specific goals. Working with faculty in formal and informal settings, students are encouraged to become engaged in designing their own education. The core courses required of all students seeking the BS degree are listed below.

For further information, see the Fisheries and Wildlife website (http://fw.oregonstate.edu/).

Specializations

Through the specialization, undergraduate students are encouraged to become engaged in designing their own education. Students work with faculty in formal and informal settings to define career and life goals and then develop a course of study to achieve those goals. Specialization plans should be developed during the junior year and will be presented to the faculty for review and comment. Specializations must contain at least 24 credits and must be upper division with four lower-division credits allowed. No courses included may be taken for a satisfactory/unsatisfactory (S/U) grade. A maximum of two courses may be completed prior to approval of the specialization. Additional upper-division credits taken prior to approval of the specialization may be allowed through petition to advisor. Double counting (when credit is given twice for a course) is not permitted between the specialization and other university or departmental course work except in the following circumstances:

- The writing intensive courses (WIC) may double count with the OSU Baccalaureate Core requirements;
- Students completing their first BS degree may apply 12 credits from the minor towards the specialization (requires approval by advisor in minor department and FW advisor);
- Postbaccalaureate students who are completing their second degree may use a maximum of 12 credits from their first degree towards their specialization (approved by FW advisor).

Specializations are given titles to reflect their content, but titles must not substantially duplicate titles of existing degree programs. Examples of specializations include forest wildlife management, stream ecology, fish and wildlife law enforcement, marine fisheries, aquaculture, avian conservation and management, conservation education and extension, fisheries business, human dimensions of resource management, conservation biology, and many others. Specializations may include typical on-campus courses, special field courses (when college credit is earned), a full term of course work at the Hatfield Marine Science Center in Newport, Oregon, or one or more terms of international exchange. A maximum of 12 credits in any combination of FW 401 and FW 410 can be used towards the specialization. Combined with required internships and a capstone course, fisheries and wildlife sciences graduates will be well-prepared to begin professional careers in fish and wildlife conservation, or to continue their education in graduate school. For those students unsure of their professional goals or seeking diversity in course work, a broad specialization may be declared.

Specialization guidelines (http://fw.oregonstate.edu/department-fisheries-and-wildlife/undergraduate/curricula-course-offerings/) are available online.

Internships

One of the best avenues to a permanent job in fisheries and wildlife is through a strong internship and temporary employment or volunteer positions. Students are required to complete a minimum of two internships or other approved alternative experiences (one of each type) for their degree. There are two types of internships: exploratory (1–2 credits) and intensive (3–6 credits). Students are encouraged to start gaining professional experience by volunteering or interning with a natural resource agency as early as possible, and no later than their junior year. This requirement is listed as FW 410, (2 required) (4–6), under the Fisheries and Wildlife Core.

Major Code: 733

- Understand the physical and ecological elements and processes sustaining ecosystems, and recognize the implications of altering those components.
- Apply conservation principles in developing conservation approaches for ecosystems or organisms within ecosystems.
- Incorporate social information in fisheries and wildlife management.
- Understand the biology, ecology, and evolution of at least one major vertebrate taxon, and explain how the structure, behavior, and physiology of animals in that taxon adapts them to their environment and influences their ecology.
- Interpret, represent, and present data in accordance with professional standards.
- Recognize biases and assumptions in published and unpublished scientific writing.
- Use logic, reasoning, analysis, and synthesis to arrive at defensible conclusions.
- Demonstrate the capacity to clearly and effectively express themselves in written communication.
- Demonstrate the capacity to clearly and effectively express themselves in oral presentations.
- Develop and learn about the importance of professional collegiality and team building.

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<th>Title</th>
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<tr>
<td></td>
<td><strong>Baccalaureate Core</strong></td>
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<td><strong>Skills Courses (16 credits)</strong></td>
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<td>HHS 241</td>
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<td><strong>Speech</strong></td>
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<td>Met with Fisheries and Wildlife Communications</td>
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<tr>
<td></td>
<td><strong>Writing I</strong></td>
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Met with Fisheries and Wildlife Communications

Writing II

Perspective Courses (24 credits) 1

Biological Science (Lecture/Lab)
Met with Fisheries and Wildlife Core

Cultural Diversity (CD)

Literature and the Arts (LA)

Physical Science (Lecture/Lab or Lab)
Met with Fisheries and Wildlife Physical and Earth Sciences sections

Social Processes and Institutions (SPI)

Western Culture (WC)

Difference, Power, and Discrimination Courses (DPD) (3 credits)
Met with Fisheries and Wildlife Human Dimensions section

Synthesis Courses (6 credits) 2
Select one course from each of the following sections:

Contemporary Global Issues (CGI)

Science, Technology, and Society (STS)

Writing Intensive Course (WIC)
Select one course from the following: 3

FW 435 *WILDLIFE IN AGRICULTURAL ECOSYSTEMS
FW 439 *HUMAN DIMENSIONS OF FISHERIES AND WILDLIFE MANAGEMENT
FW 454 *FISHERY BIOLOGY
FW 497 *AQUACULTURE

Communications
Select one course from the following: 3

WR 222 *ENGLISH COMPOSITION
HC 199 *HONORS WRITING
WR 327 *TECHNICAL WRITING
WR 362 *SCIENCE WRITING

Fisheries and Wildlife Core (69-71 credits)
Select one of the following series: 4

Series 1: Principles of Biology

BI 221 *PRINCIPLES OF BIOLOGY CELLS
& BI 222 and *PRINCIPLES OF BIOLOGY ORGANISMS
& BI 223 and *PRINCIPLES OF BIOLOGY POPULATIONS

Series 2: Introductory Biology

BI 204 *INTRODUCTORY BIOLOGY I
& BI 205 and *INTRODUCTORY BIOLOGY II
& BI 206 and *INTRODUCTORY BIOLOGY III

Select one of the following series: 5

Series 1: General Chemistry

CH 121 GENERAL CHEMISTRY
& CH 122 and *GENERAL CHEMISTRY
& CH 123 and *GENERAL CHEMISTRY

Series 2: General Chemistry and Lab

CH 231 GENERAL CHEMISTRY
& CH 261 and *LABORATORY FOR CHEMISTRY 231
CH 232 GENERAL CHEMISTRY
& CH 262 and *LABORATORY FOR CHEMISTRY 232
CH 233 GENERAL CHEMISTRY
& CH 263 and *LABORATORY FOR CHEMISTRY 233

BI 370 ECOLOGY
FW 107 ORIENTATION TO FISHERIES AND WILDLIFE
FW 209 CAREER SKILLS IN FISHERIES AND WILDLIFE SCIENCES
FW 251 PRINCIPLES OF FISH AND WILDLIFE CONSERVATION
FW 255 FIELD SAMPLING OF FISH AND WILDLIFE
FW 289 COMMUNICATION SKILLS FOR FISHERIES AND WILDLIFE PROFESSIONALS
FW 307 SPECIALIZATION DEVELOPMENT
FW 320 INTRODUCTORY POPULATION DYNAMICS
FW 321 APPLIED COMMUNITY AND ECOSYSTEM ECOLOGY
FW 410 INTERNSHIP

FW 488 PROBLEM SOLVING IN FISHERIES AND WILDLIFE SCIENCE

MTH 227 *CALCULUS AND PROBABILITY FOR THE LIFE SCIENCES I
or MTH 241 *CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES
or MTH 245 *MATHEMATICS FOR MANAGEMENT, LIFE, AND SOCIAL SCIENCES
or MTH 251 *DIFFERENTIAL CALCULUS

ST 351 INTRODUCTION TO STATISTICAL METHODS
& ST 352 and INTRODUCTION TO STATISTICAL METHODS

Vertebrate Biology (7-11 credits)
Select one course from the following: 6

FW 302 BIOLOGY AND CONSERVATION OF MARINE MAMMALS
FW 311 ORNITHOLOGY
FW 315 ICHTHYOLOGY
FW 317 MAMMALOLOGY
FW 331 ECOLOGY OF MARINE AND ESTUARINE BIRDS
Z 473 HERPETOLOGY

Select one course from the following: 6

FW 312 SYSTEMATICS OF BIRDS
FW 316 SYSTEMATICS OF FISHES
FW 318 SYSTEMATICS OF MAMMALS

Select one additional course from the preceding two lists: 6

Advanced Core (18-26 credits)
Select one course from each of the following categories, and one additional course from any category: 7

Genetics and Evolution

Select one course from the following: 7

ANS 378 ANIMAL GENETICS
BI 311 GENETICS
BI 345 *INTRODUCTION TO EVOLUTION
FW 370 CONSERVATION GENETICS
PBG 430 PLANT GENETICS

Behavior and Physiology

Select one course from the following: 7

ANS 311 PRINCIPLES OF ANIMAL NUTRITION
ANS 314 ANIMAL PHYSIOLOGY
FW 469 METHODS IN PHYSIOLOGY AND BEHAVIOR OF MARINE MEGAFISH
FW 471 ENVIRONMENTAL PHYSIOLOGY OF FISHES
FW 475 WILDLIFE BEHAVIOR
FW 476 FISH PHYSIOLOGY
Z 350 ANIMAL BEHAVIOR
Z 423 ENVIRONMENTAL PHYSIOLOGY
Z 431 VERTEBRATE PHYSIOLOGY I
Z 432 VERTEBRATE PHYSIOLOGY II

Habitats and Ecosystems

Select one course from the following: 7

BI 351 MARINE ECOLOGY
FES 341 FOREST ECOLOGY
FES 342 FOREST TYPES OF THE NORTHWEST
FES 440 WILDLAND FIRE ECOLOGY
FW 345 *GLOBAL CHANGE BIOLOGY
FW 426 COASTAL ECOLOGY AND RESOURCE MANAGEMENT
FW 434/OC 434 ESTUARINE ECOLOGY
FW 435 *WILDLIFE IN AGRICULTURAL ECOSYSTEMS
FW 445/FES 445 ECOLOGICAL RESTORATION
FW 452/FES 452 BIODIVERSITY CONSERVATION IN MANAGED FORESTS
FW 456 FRESHWATER ECOLOGY AND CONSERVATION
FW 462 ECOSYSTEM SERVICES
FW 467 ANTARCTIC SCIENCE AND CONSERVATION
FW 479 WETLANDS AND RIPARIAN ECOLOGY
RNG 341 RANGELAND ECOLOGY AND MANAGEMENT

Species Conservation and Management
Select no more than two courses from the following:

FW 419 THE NATURAL HISTORY OF WHALES AND WHALING
FW 421 AQUATIC BIOLOGICAL INFESTATIONS
FW 427 PRINCIPLES OF WILDLIFE DISEASES
FW 451 AVIAN CONSERVATION AND MANAGEMENT
FW 454 *FISHING BIOLOGY
FW 458 MAMMAL CONSERVATION AND MANAGEMENT
FW 464 MARINE CONSERVATION BIOLOGY
FW 473 FISH ECOLOGY
FW 474 EARLY LIFE HISTORY OF FISHES
FW 481 WILDLIFE ECOLOGY
FW 491/MB 491 FISH DISEASES IN CONSERVATION BIOLOGY AND AQUACULTURE

Botany
Select one course from the following:

BOT 313 PLANT STRUCTURE
BOT 321 PLANT SYSTEMATICS
BOT 323 *FLOWERING PLANTS OF THE WORLD
BOT 331 PLANT PHYSIOLOGY
BOT 341 PLANT ECOLOGY
BOT 416 AQUATIC BOTANY
BOT 440 FIELD METHODS IN PLANT ECOLOGY
BOT 442 PLANT POPULATION ECOLOGY
BOT 488 ENVIRONMENTAL PHYSIOLOGY OF PLANTS
RNG 353 WILDLAND PLANT IDENTIFICATION

Physical and Earth Sciences (9-14 credits)
Select three courses from the following two categories:

Physics, Math, and Chemistry
Select no more than two courses from the following (cannot double count with FW core):

CH 130 GENERAL CHEMISTRY OF LIVING SYSTEMS
CH 331 ORGANIC CHEMISTRY
CH 332 ORGANIC CHEMISTRY
CH 390 ENVIRONMENTAL CHEMISTRY
MTH 227 *CALCULUS AND PROBABILITY FOR THE LIFE SCIENCES I
MTH 228 *CALCULUS AND PROBABILITY FOR THE LIFE SCIENCES II
MTH 241 *CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCE
MTH 251 *DIFFERENTIAL CALCULUS
MTH 252 INTEGRAL CALCULUS
OC 450 *CHEMICAL OCEANOGRAPHY
PH 201 *GENERAL PHYSICS
PH 202 *GENERAL PHYSICS
PH 205 *SOLAR SYSTEM ASTRONOMY
PH 206 *STARS AND STELLAR EVOLUTION
PH 207 *GALAXIES, QUASARS, AND COSMOLOGY
PH 211 *GENERAL PHYSICS WITH CALCULUS
PH 212 *GENERAL PHYSICS WITH CALCULUS
PH 231 *SOUND, HEARING, AND MUSIC
PH 332 *LIGHT, VISION, AND COLOR

Earth Sciences
Select no more than two courses from the following:

ATS 201 *CLIMATE SCIENCE
GEO 201 *PHYSICAL GEOLOGY
GEO 202 *EARTH SYSTEMS SCIENCE
GEO 203 *EVOLUTION OF PLANET EARTH
GEO 221 *ENVIRONMENTAL GEOLOGY
GEO 305 *LIVING WITH ACTIVE CASCADE Volcanoes
GEO 306 *MINERALS, ENERGY, WATER, AND THE ENVIRONMENT
GEO 307 *NATIONAL PARK GEOLOGY AND PRESERVATION
GEO 308 *GLOBAL CHANGE AND EARTH SCIENCES
OC 201 *OCEANOGRAPHY

OC 332 COASTAL OCEANOGRAPHY
SOIL 205 SOIL SCIENCE
SOIL 206 and *SOIL SCIENCE LABORATORY FOR SOIL 205
or CSS 205 *SOIL SCIENCE
or CSS 305 *PRINCIPLES OF SOIL SCIENCE

Human Dimensions (9-11 credits)
Select one course from each of the following lists:

Difference, Power and Discrimination
Select one course from the following:

AG 301 *ECOSYSTEM SCIENCE OF PACIFIC NW INDIANS
FW 340 *MULTICULTURAL PERSPECTIVES IN NATURAL RESOURCES
GEO 309 *ENVIRONMENTAL JUSTICE

Environmental Law, Policy and Economics
Select one course from the following:

AEC 250 *INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY
AEC 253 *ENVIRONMENTAL LAW, POLICY, AND ECONOMICS
AEC 351 *NATURAL RESOURCE ECONOMICS AND POLICY
AEC 352/ECON 352 *ENVIRONMENTAL ECONOMICS AND POLICY
AEC 432 ENVIRONMENTAL LAW
FOR 462 NATURAL RESOURCE POLICY AND LAW
FW 350 *ENDANGERED SPECIES, SOCIETY AND SUSTAINABILITY
FW 415 FISHERIES AND WILDLIFE LAW AND POLICY
FW 422 INTRODUCTION TO OCEAN LAW
PPOL 448 MARINE POLICY IN THE UNITED STATES
PS 475 ENVIRONMENTAL POLICIES AND POLICY
PS 477 INTERNATIONAL ENVIRONMENTAL POLICIES AND POLICY

Other
Select one course from the following:

ANTH 477 ECOLOGICAL ANTHROPOLOGY
ANTH 481 *NATURAL RESOURCES AND COMMUNITY VALUES
BOT 322 ECONOMIC AND ETHNOBOTANY: ROLE OF PLANTS IN HUMAN CULTURE
FES 355 MANAGEMENT FOR MULTIPLE RESOURCE VALUES
FES 422 RESEARCH METHODS IN SOCIAL SCIENCE
FES 485 *CONSSENSUS AND NATURAL RESOURCES
FW 324 *FOOD FROM THE SEA
FW 325 *GLOBAL CRISIS IN RESOURCE ECOLOGY
FW 360 *ORIGINS OF F&W MANAGEMENT/EVOLUTION, GENETICS, AND ECOLOGY
FW 391 *RIDGE TO REEF: SUSTAINABLE RESOURCE MANAGEMENT IN PALAU
FW 439 *HUMAN DIMENSIONS OF FISHERIES AND WILDLIFE MANAGEMENT
GEOG 340 *INTRODUCTION TO WATER SCIENCE AND POLICY
HST 481 *ENVIRONMENTAL HISTORY OF THE UNITED STATES
PHL 440 *ENVIRONMENTAL ETHICS
PHL 443/REL 443 *WORLD VIEWS AND ENVIRONMENTAL VALUES
PS 461 ENVIRONMENTAL POLITICAL THEORY
PS 476 *SCIENCE AND POLITICS
SOC 480 ENVIRONMENTAL SOCIOLOGY
SOC 481 *SOCIETY AND NATURAL RESOURCES

Specialization (24 credits)

* Baccalaureate Core Course (BCC)
^ Writing Intensive Course (WIC)

Total credits required for graduation: 180
No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core.

Please reference the BCC list (http://catalog.oregonstate.edu/earning-degrees/bcc/) of approved courses in the Catalog.

The two courses used to fulfill the Synthesis requirement may not be in the same department.

^WIC courses may double count.

CGI, STS, WC, SPI, and DPD courses can double count as BCC. CGI and STS courses cannot be from the same department.

SOIL 205 and SOIL 206 Corvallis campus only
CSS 205 via Ecampus only
CSS 305 EOU campus only

CGI, STS, WC, SPI, and DPD courses can double count as baccalaureate core. CGI and STS courses cannot be from the same department.

Major Code: 733

Notes:
- This is a sample plan for first-year entering students on the Corvallis Campus; individual plans will be developed after consultation with our head advisor.
- Ecampus students will consult with their advisor for course planning.
- Year 1: CH 231–CH 233 and CH 261–CH 263 series is optional. WR I and COMM requirement taken this year (COMM 111 or COMM 114).
- Year 2: FW 255: Field Sampling of Fish & Wildlife can be taken any term. WR II requirement taken this year.
- Year 3: ST 351 and 352 can be taken F, W or W, S. *FW 410: Intensive Internship can be taken any term, usually in summer.
- Year 4: WIC course can double count with other FW requirement.

First Year

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<tr>
<th>Fall</th>
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<tr>
<td>CH 121 GENERAL CHEMISTRY</td>
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<tr>
<td>FW 107 ORIENTATION TO FISHERIES AND WILDLIFE</td>
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<td>Math Course</td>
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<td>Bacc Core Course</td>
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<tr>
<td>PAC XXX Physical Activity Course</td>
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<th>Winter</th>
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<td>CH 122 *GENERAL CHEMISTRY</td>
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<td>CH 123 *GENERAL CHEMISTRY</td>
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<td>Physical and Earth Sciences Course</td>
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Second Year

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<td>BI 221 *PRINCIPLES OF BIOLOGY CELLS</td>
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<td>FW 209 CAREER SKILLS IN FISHERIES AND WILDLIFE SCIENCES</td>
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<td>Physical &amp; Earth Sciences Course</td>
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| Bacc Core Course | 3       |
| **Winter**       | **15**  |
| BI 222 *PRINCIPLES OF BIOLOGY ORGANISMS | 4       |
| FW 251 PRINCIPLES OF FISH AND WILDLIFE CONSERVATION | 3       |
| Physical & Earth Sciences Course | 4       |
| PAC XXX Physical Activity Course | 1       |
| Bacc Core Course | 3       |

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<tr>
<td>BI 223 *PRINCIPLES OF BIOLOGY POPULATIONS</td>
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<td>FW 255 FIELD SAMPLING OF FISH AND WILDLIFE</td>
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Third Year

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<td>FW 307 SPECIALIZATION DEVELOPMENT</td>
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<td>Vertebrate Biology Course</td>
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<td>FW 321 APPLIED COMMUNITY AND ECOSYSTEM ECOLOGY</td>
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