

# FISHERIES, WILDLIFE, AND CONSERVATION SCIENCES MINOR

This program is available at the following locations:

- Corvallis
- Ecampus
- LaGrande

The Fisheries, Wildlife and Conservation Sciences minor provides a strong foundation in biodiversity conservation, ecosystem function, human dimensions of natural resources, and fish and wildlife biology.

**Minor Code: A062**

Upon successful completion of the program, students will meet the following learning outcome:

- Explain the physical and ecological processes that sustain ecosystems and describe the implications of altering ecosystem components or processes.
- Synthesize knowledge about organisms and their habitats to develop conservation strategies in a changing environment.
- Assess how social, cultural, historical and political factors influence conservation policy and management actions.
- Describe the biology, ecology, systematics 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.

A sequence in general biology equivalent to BI 221Z, BI 222Z, BI 223Z or BI 204, BI 205, BI 206 is a prerequisite to one or more required courses in the minor. A minimum of 27 total credits are required. One course included may be taken for a satisfactory/unsatisfactory (S/U) grade. Double counting restrictions, when applicable, are listed for each section. Double counting towards Core Education is permitted.

Code	Title	Credits
<b>Section 1: Foundation <sup>1</sup></b>		
FW 251	PRINCIPLES OF FISH AND WILDLIFE CONSERVATION	3
BI 370	ECOLOGY	3
<b>Section 2: Species Evolution and Biology <sup>1</sup></b>		
Select one course from the following:		3-4
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	
<b>Systematics</b>		
Select one course from the following:		3
FW 312	SYSTEMATICS OF BIRDS	
FW 316	SYSTEMATICS OF FISHES	
FW 318	SYSTEMATICS OF MAMMALS	
<b>Section 3: Applied Fisheries and Wildlife Core <sup>2</sup></b>		
<b>Species Management and Conservation</b>		
Select one course from the following:		3-4
FW 448	HERPETOFAUNA CONSERVATION AND MANAGEMENT	
FW 451	AVIAN CONSERVATION AND MANAGEMENT	

FW 454	FISHERY BIOLOGY	
FW 458	MAMMAL CONSERVATION AND MANAGEMENT	
FW 462	ECOSYSTEM SERVICES	
FW 473	FISH ECOLOGY	
FW 481	WILDLIFE ECOLOGY	
<b>Habitats and Ecosystems Management</b>		
Select one course from the following:		3-4
BI 351	MARINE ECOLOGY	
ENSC 341	TROPICAL ECOLOGY AND CONSERVATION	
FW 326	INTEGRATED WATERSHED MANAGEMENT	
FW 345	GLOBAL CHANGE BIOLOGY	
FW 418	URBAN ECOLOGY	
FW 434	ESTUARINE ECOLOGY	
FW 456	FRESHWATER ECOLOGY AND CONSERVATION	
FW 479	WETLANDS AND RIPARIAN ECOLOGY	
FES 341	FOREST ECOLOGY	
FES 445	ECOLOGICAL RESTORATION	
FES 452	BIODIVERSITY CONSERVATION IN MANAGED FORESTS	
FES 440	WILDLAND FIRE ECOLOGY	
RNG 341	PRINCIPLES OF RANGELAND ECOLOGY AND MANAGEMENT	
<b>Electives <sup>2</sup></b>		
Select two or three courses from the following or additional courses from Sections 2 and 3:		6-9
ENSC 341	TROPICAL ECOLOGY AND CONSERVATION	
FW 320	INTRODUCTORY POPULATION DYNAMICS	
FW 323	MANAGEMENT PRINCIPLES OF PACIFIC SALMON IN THE NORTHWEST	
FW 370	CONSERVATION GENETICS	
FW 371	ENVIRONMENTAL PHYSIOLOGY OF FISHES	
FW 469	METHODS IN PHYSIOLOGY AND BEHAVIOR OF MARINE MEGAFUNA	
FW 415	FISHERIES AND WILDLIFE LAW AND POLICY	
FW 421	AQUATIC BIOLOGICAL INVASIONS	
FW 427	PRINCIPLES OF WILDLIFE DISEASES	
FW 464	MARINE CONSERVATION BIOLOGY	
FW 467	ANTARCTIC SCIENCE AND CONSERVATION	
FW 475	WILDLIFE BEHAVIOR	
FW 497	<sup>^</sup> AQUACULTURE	
FW 498	AQUACULTURE LABORATORY	
Z 423	ENVIRONMENTAL PHYSIOLOGY	
<b>Total Credits</b>		<b>27</b>

<sup>^</sup> Writing Intensive Curriculum (WIC) course

<sup>1</sup> Double counting is allowed in Sections 1 and 2

<sup>2</sup> Courses in Section 3 and Electives cannot be double counted

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