

FISHERIES AND WILDLIFE ADMINISTRATION GRADUATE MAJOR (PSM)

Also available via Ecampus.

The Professional Science Master's degree in Fisheries and Wildlife Administration (PSMFWA) provides advanced training for early- and mid-career professionals employed by natural resources agencies, non-government organizations, and other entities with a need for expertise in fisheries and wildlife science. The PSMFWA degree will help employers meet workforce planning goals and contribute to self-improvement goals of current employees.

It is taught primarily as a distance, online curriculum via Ecampus, although some students may choose to work toward the PSMFWA degree while in residence at OSU or at the Hatfield Marine Science Center.

The PSMFWA degree is offered as a non-thesis program only. Students have an advisor and graduate committee to review their program of study, provide career and internship advice, and evaluate a final report based on the internship experience.

For general information about the FW PSM program, email fw.gradadvising@oregonstate.edu.

Major Code: 1331

The 45-credit PSMFWA curriculum is organized into six main sections:

1. Biology, Ecology, and Habitat core (15-16 credits)
2. Technical Skills core (6-8 credits)
3. Social Sciences core (9-10 credits)
4. Communication and Management Skills core (6-8 credits)
5. Ethics (1 course)
6. Internship (6 credits)

Code	Title	Credits
Biology, Ecology, Habitat Core		
Select a minimum of 15 credits from the following courses, including at least one course from the Habitat list:		15
<i>Wildlife</i>		
FW 519	THE NATURAL HISTORY OF WHALES AND WHALING	
FW 527	PRINCIPLES OF WILDLIFE DISEASES	
FW 535	WILDLIFE IN AGRICULTURAL ECOSYSTEMS	
FW 551	AVIAN CONSERVATION AND MANAGEMENT	
FW 558	MAMMAL CONSERVATION AND MANAGEMENT	
FW 563	CONSERVATION BIOLOGY OF WILDLIFE	
FW 569	BEHAVIOR AND PHYSIOLOGY OF MARINE MEGAFUNA	
FW 575	WILDLIFE BEHAVIOR	
FW 581	WILDLIFE ECOLOGY	
<i>Fish</i>		
FW 554	FISHERY BIOLOGY	
FW 564	MARINE CONSERVATION BIOLOGY	
FW 565	MARINE FISHERIES	
FW 573	FISH ECOLOGY AND CONSERVATION	
FW 576	FISH PHYSIOLOGY	
FW 597	AQUACULTURE	
<i>Habitat</i>		
FES 536	CARBON SEQUESTRATION IN FORESTS	

FES 548	INVASIVE PLANTS: BIOLOGY, ECOLOGY AND MANAGEMENT	
FW 521	AQUATIC BIOLOGICAL INVASIONS	
FW 526	COASTAL ECOLOGY AND RESOURCE MANAGEMENT	
FW 534	ESTUARINE ECOLOGY	
FW 545/FES 545	ECOLOGICAL RESTORATION	
FW 552/FES 552	FOREST WILDLIFE HABITAT MANAGEMENT	
FW 556	FRESHWATER ECOLOGY AND CONSERVATION	
FW 562	ECOSYSTEM SERVICES	
FW 579	WETLANDS AND RIPARIAN ECOLOGY	
FW 580	STREAM ECOLOGY	
MNR 530	TROPICAL FOREST ECOLOGY AND MANAGEMENT: A GLOBAL PERSPECTIVE	
MNR 538	ADAPTING FORESTS TO CLIMATE CHANGE	
MNR 550	CLIMATE CHANGE IMPACTS ON FOREST ECOSYSTEMS	
RNG 521	WILDLAND RESTORATION AND ECOLOGY	
SNR 530	ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES	
SNR 535	SUSTAINABLE MANAGEMENT OF AQUATIC AND RIPARIAN RESOURCES	
SNR 540	GLOBAL ENVIRONMENTAL CHANGE	
SOIL 511	SOIL: A NATURAL AND SOCIETAL RESOURCE	
Technical Skills Core Courses		
Select a minimum of 6 credits from the following courses:		6
BOT 540	FIELD METHODS IN PLANT ECOLOGY	
FES 522/MNR 522	RESEARCH METHODS SOCIAL SCIENCE	
FW 523	MONITORING WILDLIFE POPULATIONS AND THEIR HABITATS	
FW 524	INTRODUCTION TO FISHERIES ASSESSMENT	
FW 529	ICHTHYOPLANKTON IDENTIFICATION LABORATORY	
FW 583	SPECIES RECOVERY PLANNING AND RESTORATION	
FW 598	AQUACULTURE LABORATORY	
GEOG 560	GISCIENCE I: INTRODUCTION TO GEOGRAPHIC INFORMATION SCIENCE	
GEOG 561	GISCIENCE II: ANALYSIS AND APPLICATIONS	
GEOG 580	REMOTE SENSING I: PRINCIPLES AND APPLICATIONS	
GEOG 581	SATELLITE IMAGE ANALYSIS	
MCB 671/VMB 671	MOLECULAR TOOLS	
ST 516	FOUNDATIONS OF DATA ANALYTICS	
ST 517	DATA ANALYTICS I	
WRP 523	ENVIRONMENTAL WATER TRANSACTIONS	
Social Sciences Core Courses		
FW 560	PSYCHOLOGY OF ENVIRONMENTAL DECISIONS	3
Select a minimum of 6 credits from the following courses:		6
AEC 532	ENVIRONMENTAL LAW	
AEC 534	ENVIRONMENTAL AND RESOURCE ECONOMICS	
AEC 552/MRM 552	MARINE ECONOMICS	
FES 554	MANAGING AT THE WILDLAND-URBAN INTERFACE	
FES 555/HORT 555	URBAN FOREST PLANNING, POLICY AND MANAGEMENT	
FES 585	CONSENSUS AND NATURAL RESOURCES	
FW 515	FISHERIES AND WILDLIFE LAW AND POLICY	
FW 522	INTRODUCTION TO OCEAN LAW	
FW 549	HISTORY OF FISHERIES SCIENCE	
FW 620	ECOLOGICAL POLICY	
GEOG 540	CONFLICT, COOPERATION, AND CONTROL OF WATER IN THE US	
PHL 543	WORLD VIEWS AND ENVIRONMENTAL VALUES	
PPOL 548	MARINE POLICY IN THE UNITED STATES	
PS 555	THE POLITICS OF CLIMATE CHANGE	
PS 575	ENVIRONMENTAL POLITICS AND POLICY	
PS 577	INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY	

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SNR 520	SOCIAL ASPECTS OF SUSTAINABLE NATURAL RESOURCES	
SNR 521	ECONOMICS OF SUSTAINABLE NATURAL RESOURCE MANAGEMENT	
SNR 540	GLOBAL ENVIRONMENTAL CHANGE	
SOC 580	ENVIRONMENTAL SOCIOLOGY	
SOC 581	SOCIETY AND NATURAL RESOURCES	
WGSS 540	WOMEN AND NATURAL RESOURCES	
Communication and Management Skills Core Courses		
Select a minimum of 6 credits from the following courses:		6
AHE 534	ORGANIZATIONS AND SYSTEMS THEORY	
AHE 567	LEADERSHIP DEVELOPMENT AND HUMAN RELATIONS	
COMM 550	COMMUNICATION AND THE PRACTICE OF SCIENCE	
FES 585	CONSENSUS AND NATURAL RESOURCES	
FW 514	PROFESSIONAL DEVELOPMENT: MEETING COMMUNICATIONS	
FW 537	STRUCTURED DECISION MAKING IN NATURAL RESOURCE MANAGEMENT	
GRAD 542	THE INCLUSIVE CLASSROOM: DIFFERENCE, POWER AND DISCRIMINATION	
LEAD 542	LEADERSHIP SKILLS FOR CAREER SUCCESS	
LEAD 543	LEADERSHIP THROUGH CONVERSATIONS	
WRP 521	WATER CONFLICT MANAGEMENT AND TRANSFORMATION	
Ethics		
Select one of the following courses:		2-3
GRAD 520	RESPONSIBLE CONDUCT OF RESEARCH	
PHL 540	ENVIRONMENTAL ETHICS	
PHL 547	RESEARCH ETHICS	
SNR 522	BASIC BELIEFS AND ETHICS IN NATURAL RESOURCES	
Internship		
FW 510	PROFESSIONAL INTERNSHIP	6
or FW 506	PROJECTS	
Total Credits		45

All courses on these lists are available online. Students taking on-campus or hybrid courses may find logical substitutions that can be approved by the program director.

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