MAJOR IN FISH, WILDLIFE, AND CONSERVATION BIOLOGY, WILDLIFE BIOLOGY CONCENTRATION

natural resource courses used to meet graduation requirements for the Fish, Wildlife, and Conservation Biology major. The minimum applies to courses taken as substitutions for meeting these requirements.

Requirements Effective Fall 2024

A minimum grade of C (2.000) is required in all biological, mathematical/ statistical, physical science, fish, wildlife and conservation biology, and

Freshman			
		AUCC	Credits
CO 150	College Composition (GT-CO2)	1A	3
FW 104	Wildlife Ecology and Conservation (GT-SC2)	3A	3
FW 179	New-to-the-Major Seminar		1
Select one group of cour	8		
Group A:			
BZ 110	Principles of Animal Biology (GT-SC2)	3A	
BZ 111	Animal Biology Laboratory (GT-SC1)	3A	
BZ 120	Principles of Plant Biology (GT-SC1)	3A	
Group B:			
LIFE 102 ¹	Attributes of Living Systems (GT-SC1)	3A	
LIFE 103 ¹	Biology of Organisms-Animals and Plants (GT-SC1)	3A	
Select one set of chemis	stry and physics courses from the following:		13-15
Group A:			
CHEM 107	Fundamentals of Chemistry (GT-SC2)	3A	
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	3A	
PH 121	General Physics I (GT-SC1)	3A	
PH 122	General Physics II (GT-SC1)	3A	
Group B:			
CHEM 111	General Chemistry I (GT-SC2)	3A	
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	
CHEM 113	General Chemistry II		
CHEM 114	General Chemistry Lab II		
PH 110	Physics of Everyday Phenomena (GT-SC2)	3A	
PH 111	Physics of Everyday Phenomena Laboratory (GT-SC1)	3A	
Diversity, Equity, and Incl curriculum/aucc/#divers	usion (http://catalog.colostate.edu/general-catalog/all-university-core- sity-equity-inclusion)	10	3
	Total Credits		31-33
Sophomore			
FW 260	Principles of Wildlife Management		3
LIFE 320	Ecology		3
MATH 155 or 160	Calculus for Biological Scientists I (GT-MA1) Calculus for Physical Scientists I (GT-MA1)	1B	4
STAT 301 or 307	Introduction to Applied Statistical Methods Introduction to Biostatistics		3
Select one Plant Biology	course from the following:		3-4
BZ 223	Plant Identification		

D7.005			
BZ 325	Plant Systematics		
BZ 331	Developmental Plant Anatomy		
BZ 333	Introductory Mycology		
BZ 440	Plant Physiology		
F 311	Forest Ecology		
RS 300	Rangeland Conservation and Stewardship		
RS 313/F 313	Dendrology and Herbaceous Plant ID		
Select one course from th HONR 499 ²	-		3
SPCM 200 ²	Senior Honors Thesis		
	Public Speaking	an.	
#arts-humanities)	://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/		6
Social and Behavioral Scientification curriculum/aucc/#social-	ences (http://catalog.colostate.edu/general-catalog/all-university-core- behavioral-sciences)	3C	3
	Total Credits		28-29
Summer			
NR 220	Natural Resource Ecology and Measurements		5
	Total Credits		5
Junior			
FW 370	Design of Fish and Wildlife Projects	4A,4B	3
Select one course from th	e following:		3-4
BZ 330	Mammalogy		
BZ 335	Ornithology		
Select one group from the	following:		4-7
Group A:			
BSPM 302	Applied and General Entomology		
BSPM 303A	Entomology Laboratory: General		
Group B:			
BZ 212	Animal Biology-Invertebrates		
NR 312	Applied Insect Ecology		
	se pair not taken elsewhere from the following: ³		3-4
BZ 214	Animal Biology-Vertebrates		
BZ 329	Herpetology		
BZ 330	Mammalogy		
BZ 335	Ornithology		
FW 300 & FW 301 ³	Biology and Diversity of Fishes		
Select one course from th	e following:		3-4
BZ 220	Introduction to Evolution		3 4
BZ 350	Molecular and General Genetics		
SOCR 330	Principles of Genetics		
Select one course from th			3
CO 300	Writing Arguments (GT-CO3)	2	ŭ
CO 301A	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)	2	
CO 301C	Writing in the Disciplines: Social Sciences (GT-CO3)	2	
CO 301D	Writing in the Disciplines: Education (GT-CO3)	2	
JTC 300	Strategic Writing and Communication (GT-CO3)	2	
Select one course from th			3-4
FW 310	Mapping Diverse Perspectives in Conservation		
NR 319	Introduction to Geospatial Science		
FW 325	Spatial Ecology-Applications with R		
	1		

3 Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/ 3D aucc/#historical-perspectives) **Total Credits** 25-32 Senior FW 471 Wildlife Data Collection and Analysis 4C 4 Select one Biology/Botany course not taken elsewhere from the following: 3-4 **Biology Options** ANEQ 3204 **Principles of Animal Nutrition** BZ 220 Introduction to Evolution BZ 300 **Animal Behavior** BZ 310 Cell Biology BZ 401 Comparative Animal Physiology BZ 415 Marine Biology BZ 471 Stream Biology and Ecology ESS 474 Limnology FW 400 Conservation of Fish in Aquatic Ecosystems FW 430 Waterfowl Ecology and Management FW 568/BZ 568 Sustaining River Ecosystems in Changing World MIP 300 General Microbiology MIP 315 Pathology of Human and Animal Disease NR 367 Concepts in Vertebrate Nutrition NR 370 Coastal Environmental Ecology **Botany Options** BZ 325 Plant Systematics BZ 331 **Developmental Plant Anatomy** BZ 333 Introductory Mycology BZ 440 Plant Physiology BZ 450 Plant Ecology F 311 Forest Ecology **RS 300** Rangeland Conservation and Stewardship RS 313/F 313 Dendrology and Herbaceous Plant ID Select one Wildlife course not taken elsewhere from the following: 3-4 FW 310 Mapping Diverse Perspectives in Conservation FW 325 Spatial Ecology--Applications with R FW 375 Field Wildlife Studies FW 430 Waterfowl Ecology and Management FW 455 Principles of Conservation Biology FW 465 Managing Human-Wildlife Conflicts FW 467 Wildlife Disease Ecology FW 468 Bird Ecology and Conservation FW 469 Conservation and Management of Large Mammals FW 472 Issues in Animal Conservation and Management FW 475 Conservation Decision Making FW 477 Wildlife Habitat Use and Management Ecotoxicology FW 544 Travel Abroad-Wildlife Ecology/Conservation FW 573 FW *** Travel Abroad Upper-Division⁵ Select one Human Dimensions course not taken elsewhere from the following: 3 FW 310 Mapping Diverse Perspectives in Conservation FW 472

Issues in Animal Conservation and Management

American Environmental History

HIST 355⁴

4 Major in Fish, Wildlife, and Conservation Biology, Wildlife Biology Concentration

Program Total Credits:	120
Total Credits	25-27
	0-3
	9
Water and Social Justice	
Environmental and Natural Resource Sociology	
Environmental Justice	
Population-Natural Resources and Environment	
U.S. Environmental Politics and Policy	
Environmental Ethics	
Ethics of Sustainability	
Applications in Environmental Communication	
Environmental Governance	
Social Aspects of Natural Resource Management	
International Issues-Recreation and Tourism	
Public Communication in Natural Resources	
Natural Resources History and Policy	
	Public Communication in Natural Resources International Issues-Recreation and Tourism Social Aspects of Natural Resource Management Environmental Governance Applications in Environmental Communication Ethics of Sustainability Environmental Ethics U.S. Environmental Politics and Policy Population-Natural Resources and Environment Environmental Justice Environmental and Natural Resource Sociology Water and Social Justice

Students taking this biology selection should choose a botany-related course in the department elective options to meet botany/plant course requirements for certain federal positions related to wildlife, fisheries, and/or conservation biology.

² Students in the Honors Track 1 program must take HONR 499.

³ FW 300 and FW 301 count together as one selection in this choice.

⁴ Students will need to obtain a registration override from the appropriate department to take this course.

Restricted to FW subject code, department travel abroad courses, taught by FWCB faculty. No transfer or substitute courses will be accepted.

Guided Electives are courses intended to expand a student's depth and breadth in wildife biology and include any 300- or 400-level regular course with a BC, BMS, BSPM, BZ, CHEM, ESS, F, FW, GES, MATH, MIP, NR, NRRT, PH, RS, SOCR, STAT, or WR subject code (excluding courses ending in -80 to -99); CHEM 245 and CHEM 246; SOCR 240; other courses with prior approval by department and advisor. Courses may not double-count as Guided Electives and for other requirements in the major.

Select enough elective credits to bring program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400level).