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 Spring 2023

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 cours	ses from the following:		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	try 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	
•	p://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/	3B	3
#arts-humanities)			
	Total Credits		31-33
Sophomore			
BZ 223	Plant Identification		3
CHEM 245	Fundamentals of Organic Chemistry		4
CHEM 246	Fundamentals of Organic Chemistry Laboratory		1
FW 260	Principles of Wildlife Management		3
LIFE 320	Ecology		3
MATH 155 or 160	Calculus for Biological Scientists I (GT-MA1)	1B	4
	Calculus for Physical Scientists I (GT-MA1)		

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3

Total Credits			28-31
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core- curriculum/aucc/#diversity-equity-inclusion) Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/ aucc/#historical-perspectives)			3
			3
NR 319	Geospatial Applications in Natural Resources		
FW 310	Mapping Diverse Perspectives in Conservation		
Select one course from the following:			3-4
JTC 300	Strategic Writing and Communication (GT-CO3)	2	
CO 301D	Writing in the Disciplines: Education (GT-CO3)	2	
CO 301C	Writing in the Disciplines: Social Sciences (GT-CO3)	2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)	2	
CO 301A	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2	
CO 300	Writing Arguments (GT-CO3)	2	

Senior

EW 471	Willist Date Collection and Application	40	4
FW 471	Wildlife Data Collection and Analysis	4C	4
= -	ourse not taken elsewhere from the following:		3-4
Biology Options ANEQ 320 ⁴	Drive in Leas of Austria al Mustrialiana		
BZ 220	Principles of Animal Nutrition Introduction to Evolution		
BZ 300	Animal Behavior		
BZ 310 BZ 346	Cell Biology		
	Population and Evolutionary Genetics		
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	Dlant Custometics		
BZ 325	Plant Systematics		
BZ 331	Developmental Plant Anatomy		
BZ 332	Introductory Phycology		
BZ 333	Introductory Mycology		
BZ 440	Plant Physiology		
BZ 450	Plant Ecology		
F 310/RS 310	Forest and Rangeland Ecogeography		
F 311	Forest Ecology		2.4
	t taken elsewhere from the following:		3-4
FW 304	Conservation of Marine Megafauna		
FW 310	Mapping Diverse Perspectives in Conservation		
FW 375	Field Wildlife Studies		
FW 430 FW 455	Waterfowl Ecology and Management		
	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		
FW 544	Ecotoxicology		
FW 573	Travel Abroad-Wildlife Ecology/Conservation		
FW *** Travel Abroad Upp			2
	ns course not taken elsewhere from the following:		3
FW 310	Mapping Diverse Perspectives in Conservation		
FW 472	Issues in Animal Conservation and Management		
HIST 355 ⁴	American Environmental History		
NR 320	Natural Resources History and Policy		
NR 400	Public Communication in Natural Resources		

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

	Program Total Credits:	120
	Total Credits	24-25
Elective ⁷		0-3
Guided Electives ⁶		9
SOC 461	Water and Social Justice	
SOC 460	Environmental and Natural Resource Sociology	
SOC 322	Environmental Justice	
SOC 320	Population-Natural Resources and Environment	
POLS 361	U.S. Environmental Politics and Policy	
PHIL 345	Environmental Ethics	
PHIL 320	Ethics of Sustainability	
NRRT 440 ⁴	Applications in Environmental Communication	
NRRT 400 ⁴	Environmental Governance	
NRRT 330	Social Aspects of Natural Resource Management	

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.

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

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); 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).