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

Major Completion Map

Distinctive Requirements for Degree Program:
The curriculum for the Fish, Wildlife and Conservation Biology major – Conservation Biology concentration assumes students enter college prepared to take calculus. Students who have not met the prerequisites for calculus, will be required to successfully complete the prerequisites in their first year. A minimum grade of C (2.000) is required in all biological, mathematical / statistical, physical science, fish, wildlife, and conservation biology, and natural resources courses used to meet graduation requirements for the fish, wildlife, and conservation biology major. The minimum applies to courses taken as substitutions for meeting degree requirements. NR 220 is a summer course in which students reside at CSU's Mountain Campus. Students must choose ONE of two CHEM + PH paths: (Path A) CHEM 107/CHEM 108 and PH 121/PH 122 or (Path B) CHEM 111, CHEM 112, CHEM 113, CHEM 114 and PH 110/PH 111. Students must also choose ONE biology group A) BZ 110/BZ 111 or B) LIFE 102/LIFE 103.

Freshman

Semester 1		**Critical**	**Recommended**	**AUCC**	**Credits**
CO 150	College Composition (GT-CO2)	X		1A	3
FW 104	Wildlife Ecology and Conservation (GT-SC2)	X		3A	3
FW 179	New-to-the-Major Seminar	X			1
Select one group from the following:		X			4
Group A:					
BZ 110	Principles of Animal Biology (GT-SC2)			3A	
BZ 111	Animal Biology Laboratory (GT-SC1)			3A	
Group B:					
LIFE 102	Attributes of Living Systems (GT-SC1)			3A	
Select one path from the following:		X			5
Path A:					
PH 121	General Physics I (GT-SC1)			3A	
Path B:					
CHEM 111	General Chemistry I (GT-SC2)			3A	
CHEM 112	General Chemistry Lab I (GT-SC1)			3A	
	Total Credits				**16**

Semester 2		**Critical**	**Recommended**	**AUCC**	**Credits**
Select one course from the following:		X			4
BZ 120	Principles of Plant Biology (GT-SC1)			3A	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)			3A	
Select one path from the following:		X			8-10
Path A:					
CHEM 107	Fundamentals of Chemistry (GT-SC2)			3A	
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)			3A	
PH 122	General Physics II (GT-SC1)			3A	
Path B:					
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 Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)			X	1C	3
	Total Credits				**15-17**

Sophomore

Semester 3		**Critical**	**Recommended**	**AUCC**	**Credits**
FW 260	Principles of Wildlife Management	X			3
Select one course from the following:		X			3-4

BZ 220	Introduction to Evolution				
BZ 350	Molecular and General Genetics				
SOCR 330	Principles of Genetics				
Select one course from the following:		X			4
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
MATH 160	Calculus for Physical Scientists I (GT-MA1)			1B	
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
	Total Credits				**13-14**
Semester 4		**Critical**	**Recommended**	**AUCC**	**Credits**
LIFE 320	Ecology	X			3
Select one course from the following:		X			3
HONR 499	Senior Honors Thesis				
SPCM 200	Public Speaking				
Select one course from the following:		X			3
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			X	3C	3
FW 260 must be completed by the end of Semester 4.		X			
	Total Credits				**15**
Semester 5		**Critical**	**Recommended**	**AUCC**	**Credits**
NR 220	Natural Resource Ecology and Measurements	X			5
	Total Credits				**5**
Junior					
Semester 6		**Critical**	**Recommended**	**AUCC**	**Credits**
Select one course from the following:		X			3-4
FW 310	Mapping Diverse Perspectives in Conservation				
FW 325	Spatial Ecology--Applications with R				
NR 319	Introduction to Geospatial Science				
Select one course from the following:		X			3
CO 300	Writing Arguments (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
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	
Select one group from the following:		X			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				
Select one group from the following:					3-4
Group A:					
BZ 214	Animal Biology-Vertebrates				
Group B:					
BZ 329	Herpetology				
Group C:					

BZ 330	Mammalogy				
Group D:					
BZ 335	Ornithology				
Group E:					
FW 300	Biology and Diversity of Fishes				
FW 301	Ichthyology Laboratory				
STAT 301 or STAT 307 and LIFE 320 must be completed by the end of Semester 6.		X			
	Total Credits				**13-18**
Semester 7		**Critical**	**Recommended**	**AUCC**	**Credits**
FW 370	Design of Fish and Wildlife Projects	X		4A,4B	3
Select one group from the following:		X			3-4
Group A:					
BZ 214	Animal Biology-Vertebrates				
Group B:					
BZ 329	Herpetology				
Group C:					
BZ 330	Mammalogy				
Group D:					
BZ 335	Ornithology				
Group E:					
FW 300	Biology and Diversity of Fishes				
FW 301	Ichthyology Laboratory				
Plant Biology Elective Course (See Department List on Concentration Requirements tab)		X			3-4
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3
Choose FW 300 / FW 301 if taking FW 401					
	Total Credits				**12-14**
Senior					
Semester 8		**Critical**	**Recommended**	**AUCC**	**Credits**
Select one course from the following:		X			3-4
FW 471	Wildlife Data Collection and Analysis			4C	
FW 401	Fishery Science			4C	
Select one course from the following:		X			3
FW 455	Principles of Conservation Biology				
FW 472	Issues in Animal Conservation and Management				
Aquatic Biology Elective (See Department List on Concentration Requirements tab)		X			3-4
Human Dimensions Elective (See Department List on Concentration Requirements tab)		X			3
FW 370, BSPM 302 / BSPM 303A or or BZ 212 / NR 312 must be completed by the end of Semester 8.		X			
	Total Credits				**12-14**
Semester 9		**Critical**	**Recommended**	**AUCC**	**Credits**
Human Dimensions Elective (See Department List on Concentration Requirements tab)		X			3
Wildlife Elective (See Department List on Concentration Requirements tab)		X			3-4
Upper Division Guided Electives (See Department List on Concentration Requirements tab)		X			6
Elective			X		0-1

The benchmark courses for the 9th semester are the remaining courses in the entire program of study.	X	
Total Credits		**12-14**
Program Total Credits:		**120**