MAJOR IN FISH, WILDLIFE, AND CONSERVATION BIOLOGY, FISHERIES AND AQUATIC SCIENCES CONCENTRATION

Major Completion Map

Distinctive Requirements for Degree Program: The curriculum for the Fish, Wildlife and Conservation Biology major – Fisheries and Aquatic Sciences 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 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 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/BZ 120 or B) LIFE 102/LIFE 103. Students choosing the Fisheries and Aquatic Sciences concentration are also required to complete at least 80 clock hours in an internship experience related to fishery and aquatic biology. Students must sign up for 1 credit of FW 487 during the semester in which they are completing their internship or work experience requirement.

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 grou	p from the following:	X			5
Group A:					
PH 121	General Physics I (GT-SC1)			3A	
Group 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 cours	se 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 grou	p from the following:	X			8-10
Group 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	
Group 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	
	and Inclusion (http://catalog.colostate.edu/general-catalog/re-curriculum/aucc/#diversity-equity-inclusion)		X	1C	3

Total Credits 15-17

Semester W 2004 Introduction to Fishery Biology X X X X X X X X X						
Select none curse	Semester 3		Critical	Recommended	AUCC	Credits
BZ 2200 Introduction to Evolution BZ 350 Molecular and Genetics Solica tone course from the following: X Select none course from the following: B MATH 150 Calculus for Biological Scientists I (GFMAI) B MATH 160 Calculus for Biological Scientists I (GFMAI) B Social and Behavioral's active sciences (http://patalog acotalate edu/general- scorial and Behavioral's active sciences (http://patalog acotalate edu/general- cation active sciences (http://patalog acotalate edu/general- cation active sciences (http://patalog acotalate edu/general- cation active sciences (http://patalog acotalate acotalate active sciences (http://patalog acotalate active sciences (http://patalog aco	FW 204	Introduction to Fishery Biology	Х			3
Received in the content of the con	Select one cours	se from the following:	Х			3-4
Select no course	BZ 220	Introduction to Evolution				
Select note outs	BZ 350	Molecular and General Genetics				
MATH 155	SOCR 330	Principles of Genetics				
MaN	Select one cours	se from the following:	Х			4
Secional dia Behavioria (Sciences (http://catalog.colostate edu/general-catalog/all-university-core-curriculum/auce/#social-behavioral-sciences) Total Credits Total Cr	MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
Total Credits	MATH 160	Calculus for Physical Scientists I (GT-MA1)			1B	
Total Credits Critical Recommended AUCC Credits FW 260 Principles of Wildlife Management X 3 3 SILFS 320 Ecology X 3 3 Select one course from the following: X 3 3 Select one course from the following: X 3 3 SPCM 200 Public Speaking X 3 3 Select one course from the following: X 3 3 STAT 301 Introduction to Applied Statistical Methods Total Credits X 2 12 Semester 5 Introduction to Biostatistics Total Credits X 2 2 2 NR 200 Natural Resource Ecology and Measurements X 8 4UCC Credits NR 207 Internship X 8 4UCC Credits SPW 437 Internship X 4 4 4 4 4 4 4 4 4 4 4 4 4				X	3C	3
Semester 4 Critical Recommended AUCC Cordeits FW 260 Principles of Wildife Management X 3 3 LIFE 320 Ecology X 3 3 Select one course from the following: X S - - 3 SPCM 200 Public Speaking S - - 3 3 Select one course from the following: X S - - 3 3 STAT 301 Introduction to Applied Statistical Methods Total Credits T - - 12 2 7 12 2 7 12 2 7 12 3 1 5 5 3 1 5 1 3 1 3 1 1 3 1 1 3 1 4 1 2 7 6 6 1 4 1 4 1 4 1 3 3 3 3 3 3	catalog/all-unive					
FW 260		Total Credits				
LIFE 320 Ecology X 3 Select one course- from the following: X 3 HONR 499 Senior Honors Thesis 2 SPCM 200 Public Speaking X 3 STAT 301 Introduction to Applied Statistical Methods 5				Recommended	AUCC	
Select one course from the following: X 3 HONR 499 Seloir Honors Thesis 2 SPCM 200 Public Speaking X 3 Select one course from the following: X 3 3 STAT 301 Introduction to Applied Statistical Methods 5 1 2 1 2 1 2 2 6 7 6 7 12 2 2 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6		-				
MONR 499						
SPCM 200 Public Speaking X 3 Select one course from the following: X 3 STAT 301 Introduction to Applied Statistical Methods Introduction to Biostatistics Total Credits Critical Recommende AUCC Credits Semester 5 Total Credits Critical Recommende AUCC Credits Junior Status In Security In Total Credits Total Credits \$ 5 Semester 6 Total Credits Critical Recommende AUCC Credits Semester 6 Internship X 9 1 Semester 6 Internship X 9 1 Select four creed it from the following: X 9 1 Select four creed it from the following: X 3A 9 Select four creed it from the following: X 3A 9 9 1 9 1 1 1 1 1 1 1 2 1	Select one cours	_	Х			3
Select one course from the following: X 33 STAT 301 STAT 307 Total Credits Introduction to Bioistatistics 7 Total Credits 12 Senester 5 Critical Recommended AUCC Credits Natural Resource Ecology and Measurements X 5 5 Junior Economended AUCC Credits Senester 6 Critical Recommended AUCC Credits FW 487 Internship X 1 1 Select four cress from the following: X 2 2 1 Select four cress from the following: X 3A 1 2 2 1 3 1 2 2 1 1 2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
STAT 301 Introduction to Applied Statistical Methods STAT 307 Total Credits Total Credits						
STAT 307 Introduction to Biostatistics 12 Semester 5 Critical Recommende Recommender AUCC Crotics NR 220 Natural Resource Ecology and Measurements X AUCC Crotics Junior Semester 6 Critical Recommended AUCC Crotics FW 487 Internship X 4 4 Select four crestiful From the following: X 3A 4 Select 10ur crestiful Geoscience Understage (GT-SC2) 3A 3A 4 Select 12u Experiential Geoscience Laboratory (GT-SC2) 3A 3A 4 GEOL 121 Experiential Geoscience Laboratory (GT-SC2) 3A 3A 4 GEOL 12b Geoscience-Climate and Environmental Change (GT-SC2) 3A 3A 4 GEOL 12c Geoscience-Climate and Environmental Change (GT-SC2) 3A 3A 3A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Select one cours	-	Х			3
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NB 220 Natural Resource Ecology and Measurements X 5 Junior Total Credits Critical Recommended AUCC Credits EW 487 Internship X 4 6 EW 487 Internship X 4 4 Select four credits from the following: X 3 4 EW 325 Spatial Ecology—Applications with R 3A 3A GEOL 120 Geology and Society (GT-SC2) 3A 3A GEOL 121 Experiential Geoscience Laboratory (GT-SC2) 3A 3A GEOL 122 Geoscience-Climate and Environmental Change (GT-SC2) 3A 3A GEOL 122 Geology of Natural Resources (GT-SC2) 3A 3A GEOL 150 Physical Geology for Scientists and Engineers 3A 3A GEO 215 Physical Geology for Scientists and Engineers 3A 3A GEO 216 Physical Geology for Scientists and Engineers 3A 3A GEO 217 Introduction to Geospatial Science 2 3A Select one 218 Writing Arguments (GT-CO3) 2 2 CO 3010		Total Credits				12
Total Credits Summer Semester 6 Critical Recommended AUCC Credits	Semester 5		Critical	Recommended	AUCC	Credits
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Select four credits from the following: RW 325 Spatial Ecology—Applications with R GEOL 120 Geology and Society (GT-SC2) GEOL 121 Experiential Geoscience Laboratory (GT-SC1) GEOL 122 Geoscience—Climate and Environmental Change (GT-SC2) GEOL 124 Geology of Natural Resources (GT-SC2) GEOL 150 Physical Geology for Scientists and Engineers GEOL 150 Physical Geology for Scientists and Engineers GR 204/ NR 319 Introduction to Geospatial Science SOCR 240 Introductory Soil Science Select one course from the following: X	Semester 6		Critical	Recommended	AUCC	Credits
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GEOL 121 Experiential Geoscience Laboratory (GT-SC1) 3A GEOL 122 Geoscience-Climate and Environmental Change (GT-SC2) 3A GEOL 124 Geology of Natural Resources (GT-SC2) 3A GEOL 150 Physical Geology for Scientists and Engineers 3A GR 204/ Sustainable Watersheds (GT-SC2) 3A WR 204 NR 319 Introduction to Geospatial Science SOCR 240 Introductory Soil Science Select one course from the following: X 3 CO 300 Writing Arguments (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: Social Sciences (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	FW 325	Spatial EcologyApplications with R				
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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 group from the following: X 4-7 Group A: BSPM 302 Applied and General Entomology BSPM 303A Entomology Laboratory: General	GEOL 121 GEOL 122 GEOL 124 GEOL 150 GR 204/ WR 204 NR 319 SOCR 240 Select one cours	Experiential Geoscience Laboratory (GT-SC1) Geoscience-Climate and Environmental Change (GT-SC2) Geology of Natural Resources (GT-SC2) Physical Geology for Scientists and Engineers Sustainable Watersheds (GT-SC2) Introduction to Geospatial Science Introductory Soil Science see from the following:	Х		3A 3A 3A 3A 3A	3
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Select one group from the following: X 4-7 Group A: BSPM 302 Applied and General Entomology BSPM 303A Entomology Laboratory: General	GEOL 121 GEOL 122 GEOL 124 GEOL 150 GR 204/WR 204 NR 319 SOCR 240 Select one cours CO 300 CO 301A CO 301B	Experiential Geoscience Laboratory (GT-SC1) Geoscience-Climate and Environmental Change (GT-SC2) Geology of Natural Resources (GT-SC2) Physical Geology for Scientists and Engineers Sustainable Watersheds (GT-SC2) Introduction to Geospatial Science Introductory Soil Science se from the following: Writing Arguments (GT-CO3) Writing in the Disciplines: Arts and Humanities (GT-CO3) Writing in the Disciplines: Sciences (GT-CO3)	X		3A 3A 3A 3A 3A 2 2	3
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BSPM 302 Applied and General Entomology BSPM 303A Entomology Laboratory: General	GEOL 121 GEOL 122 GEOL 124 GEOL 150 GR 204/ WR 204 NR 319 SOCR 240 Select one cours CO 300 CO 301A CO 301B CO 301C CO 301D JTC 300	Experiential Geoscience Laboratory (GT-SC1) Geoscience–Climate and Environmental Change (GT-SC2) Geology of Natural Resources (GT-SC2) Physical Geology for Scientists and Engineers Sustainable Watersheds (GT-SC2) Introduction to Geospatial Science Introductory Soil Science se from the following: Writing Arguments (GT-CO3) Writing in the Disciplines: Arts and Humanities (GT-CO3) Writing in the Disciplines: Sciences (GT-CO3) Writing in the Disciplines: Education (GT-CO3) Strategic Writing and Communication (GT-CO3)			3A 3A 3A 3A 3A 2 2 2 2 2	
BSPM 303A Entomology Laboratory: General	GEOL 121 GEOL 122 GEOL 124 GEOL 150 GR 204/WR 204 NR 319 SOCR 240 Select one cours CO 300 CO 301A CO 301B CO 301C CO 301D JTC 300 Select one group	Experiential Geoscience Laboratory (GT-SC1) Geoscience–Climate and Environmental Change (GT-SC2) Geology of Natural Resources (GT-SC2) Physical Geology for Scientists and Engineers Sustainable Watersheds (GT-SC2) Introduction to Geospatial Science Introductory Soil Science se from the following: Writing Arguments (GT-CO3) Writing in the Disciplines: Arts and Humanities (GT-CO3) Writing in the Disciplines: Sciences (GT-CO3) Writing in the Disciplines: Education (GT-CO3) Strategic Writing and Communication (GT-CO3)			3A 3A 3A 3A 3A 2 2 2 2 2	
	GEOL 121 GEOL 122 GEOL 124 GEOL 150 GR 204/WR 204 NR 319 SOCR 240 Select one cours CO 300 CO 301A CO 301B CO 301C CO 301D JTC 300 Select one group Group A:	Experiential Geoscience Laboratory (GT-SC1) Geoscience–Climate and Environmental Change (GT-SC2) Geology of Natural Resources (GT-SC2) Physical Geology for Scientists and Engineers Sustainable Watersheds (GT-SC2) Introduction to Geospatial Science Introductory Soil Science se from the following: Writing Arguments (GT-CO3) Writing in the Disciplines: Arts and Humanities (GT-CO3) Writing in the Disciplines: Sciences (GT-CO3) Writing in the Disciplines: Education (GT-CO3) Strategic Writing and Communication (GT-CO3) of from the following:			3A 3A 3A 3A 3A 2 2 2 2 2	
Group B:	GEOL 121 GEOL 122 GEOL 124 GEOL 150 GR 204/WR 204 NR 319 SOCR 240 Select one cours CO 300 CO 301A CO 301B CO 301C CO 301D JTC 300 Select one group Group A: BSPM 302	Experiential Geoscience Laboratory (GT-SC1) Geoscience–Climate and Environmental Change (GT-SC2) Geology of Natural Resources (GT-SC2) Physical Geology for Scientists and Engineers Sustainable Watersheds (GT-SC2) Introduction to Geospatial Science Introductory Soil Science se from the following: Writing Arguments (GT-CO3) Writing in the Disciplines: Arts and Humanities (GT-CO3) Writing in the Disciplines: Sciences (GT-CO3) Writing in the Disciplines: Education (GT-CO3) Strategic Writing and Communication (GT-CO3) of from the following: Applied and General Entomology			3A 3A 3A 3A 3A 2 2 2 2 2	

Χ

BZ 212 Animal Biology-Invertebrates

NR 312 Applied Insect Ecology

STAT 301 or STAT 307, FW 260, and LIFE 320 must be completed by the end

of Semester 6.

or semester 6.					
	Total Credits				12-15
Semester 7		Critical	Recommended	AUCC	Credits
FW 300 (Spring	Biology and Diversity of Fishes	Х			2
only) FW 301	Ichthyology Laboratory	Х			1
FW 370	Design of Fish and Wildlife Projects	X		4A,4B	3
	se from the following:	X		4A,4D	3-4
BZ 214	Animal Biology-Vertebrates	^			3-4
BZ 214 BZ 329					
	Herpetology				
BZ 330	Mammalogy				
BZ 335	Ornithology	V			2.4
	Biology course from the following:	Х			3-4
BZ 223	Plant Identification				
BZ 325	Plant Systematics				
BZ 450	Plant Ecology				
F 311	Forest Ecology				
RS 300	Rangeland Conservation and Stewardship				
	B Dendrology and Herbaceous Plant ID				
	ectives (http://catalog.colostate.edu/general-catalog/all- curriculum/aucc/#historical-perspectives)		Х	3D	3
	Total Credits				15-17
Senior					
Semester 8		Critical	Recommended	AUCC	Credits
FW 401 (Fall only)	Fishery Science	Х		4C	3
	o from the following:	Χ			3-4
Group A:					
BZ 471	Stream Biology and Ecology				
BZ 472	Stream Biology and Ecology Laboratory				
Group B:					
ESS 474	Limnology				
Group C:					
FW 430	Waterfowl Ecology and Management				
Group D:	g				
FW 568/ BZ 568	Sustaining River Ecosystems in Changing World				
Group E:					
NR 370	Coastal Environmental Ecology				
	se from the following:	Х			3-4
FW 400	Conservation of Fish in Aquatic Ecosystems				
FW 402	Fish Culture				
(Spring only)	Tion outdie				
FW 405 (Spring of odd years only)	Fish Physiology d				
•	ons Elective (See Department List on Concentration	Χ			3
	M 303A, or BZ 212 / NR 312 must be completed by the end o	of X			
	Total Credits				12-14

Total Credits 12-14

4 Major in Fish, Wildlife, and Conservation Biology, Fisheries and Aquatic Sciences Concentration

Semester 9	Critical	Recommended	AUCC	Credits
Select one course from the following:				3-4
FW 400 (Fall Conservation of Fish in Aquatic Ecosystems only)				
FW 402 Fish Culture				
FW 405 (Odd Fish Physiology years only)				
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		Χ	3B	6
Guided Elective (See Department List on Concentration Requirements ta	ıb.) X			3
Electives		Х		0-3
The benchmark courses for the 9th semester are the remaining courses entire program of study.	in the X			
Total Credits				12-16
Program Total Credits:				120