BIOLOGY COMPREHENSIVE MAJOR: FISHERIES AND AQUATIC ECOLOGY EMPHASIS

Fisheries and Aquatic Ecology Emphasis

The Fisheries and .Aquatic Ecology Emphasis requires a minimum of 69 credits, including the 26-credit Biology Nucleus, 22 additional credits in Biology, and 21 credits of supporting courses:

Code	Title C	redits		
Required Biology	courses:			
BIOL 302	Ecology Laboratory and Recitation	2		
BIOL 467	Biology of Fishes	3		
BIOL 468	Ichthyology Laboratory	1		
BIOL 470	Fisheries Management (with laboratory)	4		
BIOL 476	Aquatic Ecology (with laboratory)	4		
One of the follow	ing organismal courses:	3-4		
BIOL 320	Ornithology (with laboratory and recitation)			
BIOL 322	Mammalogy (with laboratory and recitation)			
BIOL 325	Invertebrate Zoology with Laboratory			
BIOL 327	Field Entomology (with laboratory)			
BIOL 352	Botany (with laboratory)			
BIOL 353	Rocky Mountain Flora			
BIOL 355	Spring Fungi Rocky Mountains (with laboratory)			
One of the follow	ing:	3		
BIOL 362	Evolution			
BIOL 440	Conservation Biology			
At least two cred	its of Capstone Experience courses:	2		
BIOL 495	Senior Seminar (may be repeated)			
BIOL 496	Senior Thesis			
Minimum suppor	ting courses:			
CHEM 231	Introduction to Organic Chemistry and Biochemistry	3		
CHEM 234	Introductory Organic and Biochemistry Laborator	y 1		
MATH 151	Calculus I (GT-MA1)	4		
MATH 213	Probability and Statistics (GT-MA1)	3		
PHYS 140	Introductory Physics (with laboratory) (GT-SC1)	4		
At least three credits of the following communications and writing courses:				
COM 274	Public Relations Communication			
COM 346	Multimedia Communication			
COM 371	Small Group and Conflict Management			
COM 375	Social Media Skills			
ENG 302	Technical Writing			
ENVS 200	Writing the Environment			
At least three cre	dits of the following human dimensions courses:	3		
BIOL 430	Wildlife Ecology and Management (with laboratory)	4		
ECON 215	Environmental Economics			
ENVS 210	Introduction to Climate Policy			
ENVS 260	Introduction to Public Lands Management			
	3			

Total Credits		47-48
ENVS 380	Advanced Climate Policy	
ENVS 376	The Colorado Water Workshop	
ENVS 373	The Water Planet	
ENVS 370	Water Policy and Politics	
ENVS 350	U.S. and Western Environmental Politics	
ENVS 320	Quantitative Skills for Climate Action Planning	

Sample Plan

Course	Title	Credits
Year One	Title	Orealta
Fall		
BIOL 151	Diversity and Patterns of Life (with laboratory)	4
CHEM 111	General Chemistry I (GT-SC2)	3
CHEM 112	General Chemistry Laboratory I (GT-SC1)	1
ENG 102	Writing and Rhetoric I (GT-CO1)	3
HWTR 100	First Year Seminar	1
MATH 140	College Algebra (GT-MA1)	3
	Credits	15
Spring	0.04.0	
BIOL 150	Biological Principles (with laboratory) (GT-SC1)	4
CHEM 113	General Chemistry II	3
CHEM 114	General Chemistry Laboratory II	1
MATH 141	Precalculus (GT-MA1)	4
ENG 103	Writing and Rhetoric II (GT-CO2)	3
	Credits	15
Year Two	oreate	
Fall		
BIOL 301	General Ecology	3
BIOL 302	Ecology Laboratory and Recitation	2
MATH 213	Probability and Statistics (GT-MA1)	3
Gen Ed	General Education (Area I)	3
Gen Ed	General Education (Area III)	3
	Credits	14
Spring	0.04.0	
BIOL 310	Cell Biology	3
CHEM 231	Introduction to Organic Chemistry and Biochemistry	3
CHEM 234	Introductory Organic and Biochemistry Laboratory	1
MATH 151	Calculus I (GT-MA1)	4
Gen Ed	General Education (Area I)	3
	Credits	14
Year Three		
Fall		
BIOL 312	Genetics (with recitation)	4
PHYS 140	Introductory Physics (with laboratory) (GT-SC1)	4
BIOL elective	BIOL upper division elective	3
Elective	Communications/Writing Elective	3
Gen Ed	General Education (Area I)	3
	Credits	17
Spring		
BIOL 467	Biology of Fishes	3
BIOL 468	Ichthyology Laboratory	1
Elective	Human Dimensions elective course	3
Gen Ed	General Education (Area III)	3
Gen Ed/Elective	Other GE or Upper Division Biology Electives	6
	Credits	16
Year Four		
Fall		
BIOL 470	Fisheries Management (with laboratory)	4
BIOL 476	Aquatic Ecology (with laboratory)	4

Biology Comprehensive Major. Fisheries and Aquatic Ecology Emphasis

	Total Credits	Total Credits 113-120
	Credits	7-14
Elective	Remaining elective courses	3-10
BIOL 495 or BIOL 496	Senior Seminar or Senior Thesis	1
BIOL 440	Conservation Biology	3
Spring		
	Credits	15
Gen Ed	General Education (Area III)	3
Elective	Upper division elective course	3
BIOL 495 or BIOL 496	Senior Seminar or Senior Thesis	1

2