MAJOR IN BIOLOGICAL SCIENCE, BIOLOGICAL SCIENCE CONCENTRATION

Major Completion Map

Distinctive Requirements for Degree Program:

TO PREPARE FOR FIRST SEMESTER: The curriculum for the Biological Sciences major -Biological Sciences concentration assumes students

enter college prepared to take calculus. Entering students who are not prepared to take calculus will need to fulfill pre-calculus requirements in the first semester. LIFE 102 requires high school chemistry as a prerequisite; CHEM 111 requires Algebra II as a prerequisite (this prerequisite is met by having Algebra II by test credit, transfer credit, or placement out of MATH 117 and MATH 118 on Math Placement Exam). Earned grade of C or better is required in each of their biological, physical science, and mathematical courses used to meet requirements for the major. It is recommended that you do not take BZ 310 and BZ 350 together.

Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)	X		1A	3
LIFE 102	Attributes of Living Systems (GT-SC1)	X		3A	4
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			Х	3B	6
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		og/	Х	1C	3
MATH 117, MA calculus requi	ATH 118 may be necessary for some students to fulfill pre- rements.		Χ		

	Total Credits				16
Semester 2		Critical	Recommended	AUCC	Credits
CHEM 111	General Chemistry I (GT-SC2)	X		3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	Χ		3A	1
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	Χ		3A	4
Select one course from the following:		Χ			4
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
MATH 160	Calculus for Physical Scientists I (GT-MA1)			1B	
CO 150 must be	e completed by the end of Semester 2.	Χ			
MATH 124, MA calculus require	TH 125 may be necessary for some students to fulfill pre- ements.		Х		

	Total Credits				13
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
BZ 220	Introduction to Evolution	Х			3

BZ 220	Introduction to Evolution	X			3
CHEM 113	General Chemistry II	Χ			3
CHEM 114	General Chemistry Lab II	Χ			1
	ectives (http://catalog.colostate.edu/general-catalog/all- eurriculum/aucc/#historical-perspectives)		Χ	3D	3
	vioral Sciences (http://catalog.colostate.edu/general- ersity-core-curriculum/aucc/#social-behavioral-sciences)		Χ	3C	3
Elective			Χ		3
MATH 155 or MA	ATH 160 must be completed by the end of Semester 3.	X			

	Total Credits			16
Semester 4		Critical	Recommended AUCC	Credits
BZ 310	Cell Biology	Χ		4
CHEM 245	Fundamentals of Organic Chemistry	Χ		4
CHEM 246	Fundamentals of Organic Chemistry Laboratory	X		1
Select one course from the following:		X		3
OTAT 201	Inducation to Applied Otationical Matheads			

STAT 301 Introduction to Applied Statistical Methods

STAT 307 Introduction to Biostatistics

Elective			Х		3
	Total Credits				15
Junior					
Semester 5		Critical	Recommended	AUCC	Credits
Select one grou	up from the following:	X			4-6
Group A:					
BC 351	Principles of Biochemistry				
Group B:					
BC 401	Comprehensive Biochemistry I				
BC 403	Comprehensive Biochemistry II				
Select one cou	rse from the following:	Х			5
PH 121	General Physics I (GT-SC1)			3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)			3A	
Elective			X		3
Upper Division	Elective (see list on Concentration Requirements tab)		X		3
STAT 301 or ST	FAT 307 must be completed by the end of Semester 5.	X			
	Total Credits				15
Semester 6		Critical	Recommended	AUCC	Credits
Select one cou	rse from the following:	X			5
PH 122	General Physics II (GT-SC1)			3A	
PH 142	Physics for Scientists and Engineers II (GT-SC1)			3A	
	ing (http://catalog.colostate.edu/general-catalog/all- -curriculum/aucc/#advanced-writing)		Х	2	3
Electives	3,		X		4
Upper Division	Elective (see list on Concentration Requirements tab)		X		3
	Total Credits				15
Senior					
Semester 7		Critical	Recommended	AUCC	Credits
BZ 350	Molecular and General Genetics	Х		4A,4B	4
Electives			X		7
Upper Division	Elective (see list on Concentration Requirements tab)		X		3
	41 must be completed by the end of Semester 7.	Х			
	Total Credits				14
Semester 8		Critical	Recommended	AUCC	Credits
BZ 311	Developmental Biology	Χ			4
LIFE 320	Ecology	X		4C	3
	Electives (see list on Concentration Requirements tab)		Х		9
	k courses for the 8th semester are the remaining courses in the	e X			
entire program	•				
	Total Credits				16
	Program Total Credits:				120