MAJOR IN BIOMEDICAL SCIENCES, ENVIRONMENTAL PUBLIC HEALTH CONCENTRATION

TO Declare Major: competitive entry controls required and capped enrollment in place. Please contact Director of Student Success in the CVMBS Student Success Center for more information.

Major Completion Map

Distinctive Requirements for Degree Program:

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
CHEM 111	General Chemistry I (GT-SC2)	X		3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	X		3A	1
CO 150	College Composition (GT-CO2)			1A	3
LIFE 102	Attributes of Living Systems (GT-SC1)	X		3A	4
VMBS 100	Introduction to Biomedical Sciences Major				2
Select 0-1 credits from the following:					0-1
MATH 118	College Algebra in Context II (GT-MA1)			1B	
MATH 124	Logarithmic and Exponential Functions (GT-MA1)			1B	
MATH 125	Numerical Trigonometry (GT-MA1)			1B	
MATH 126	Analytic Trigonometry (GT-MA1)			1B	
	Total Credits				**14-15**

Semester 2		Critical	Recommended	AUCC	Credits
CHEM 113	General Chemistry II	X			3
CHEM 114	General Chemistry Lab II	X			1
ERHS 220	Environmental Health		X		3
MIP 260	The World of Parasites				3
Select 2-4 credits from the following (not previously taken):					2-4
MATH 117	College Algebra in Context I (GT-MA1)			1B	
MATH 118	College Algebra in Context II (GT-MA1)			1B	
MATH 124	Logarithmic and Exponential Functions (GT-MA1)			1B	
MATH 125	Numerical Trigonometry (GT-MA1)			1B	
MATH 126	Analytic Trigonometry (GT-MA1)			1B	
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
MATH 160	Calculus for Physical Scientists I (GT-MA1)			1B	
A minimum of 3 credits of AUCC 1B (Quantitative Reasoning) must be completed by the end of Semester 2.		X		1B	
	Total Credits				**12-14**

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
ERHS 230	Environmental Health Field Methods		X		3
Select one course from the following:					4
BMS 300	Principles of Human Physiology				
BMS 360	Fundamentals of Physiology				
Select one course from the following:					5
PH 121	General Physics I (GT-SC1)		X	3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)			3A	
Select one group from the following:					3-5
Group A					
CHEM 245	Fundamentals of Organic Chemistry				

CHEM 246	Fundamentals of Organic Chemistry Laboratory				
Group B					
CHEM 341	Modern Organic Chemistry I	X			
ERHS 220 must be completed by end of Semester 3.		X			
	Total Credits				**15-17**
Semester 4		**Critical**	**Recommended**	**AUCC**	**Credits**
MIP 300	General Microbiology	X			3
MIP 302	General Microbiology Laboratory				2
Select one course from the following:					3
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
Select the same Group (A or B) as selected in Semester 3:					3-5
Group A					
CHEM 338 or ERHS 448	Environmental Chemistry Environmental Contaminants				
Group B					
CHEM 343	Modern Organic Chemistry II	X			
CHEM 344	Modern Organic Chemistry Laboratory	X			
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)				3C	3
BMS 300 or BMS 360 and ERHS 230 must be completed by the end of Semester 4.		X			
	Total Credits				**14-16**
Junior					
Semester 5		**Critical**	**Recommended**	**AUCC**	**Credits**
ERHS 320	Environmental Health--Water Quality			4A	3
ERHS 350	Principles of Occupational Safety and Health				3
Select one course from the following:					3
CO 300	Writing Arguments (GT-CO3)			2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
Select one course from the following:					3
FTEC 400	Food Safety				
MIP 334	Food Microbiology				
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)				3D	3
PH 121 or PH 141 must be completed by the end of Semester 5.		X			
	Total Credits				**15**
Semester 6		**Critical**	**Recommended**	**AUCC**	**Credits**
BC 351	Principles of Biochemistry				4
ERHS 332	Principles of Epidemiology				3
ERHS 479	Environmental Health Practice	X		4C	1
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)				3B	6
BMS 300 or BMS 360 and STAT 301 or STAT 307 must be completed by the end of Semester 6.		X			
	Total Credits				**14**
Senior					
Semester 7		**Critical**	**Recommended**	**AUCC**	**Credits**
ERHS 446	Environmental Toxicology	X			3
ERHS 487	Internship-Environmental Health	X		4C	4
Program Electives (See Major Requirements tab)					5
Electives					3-4
	Total Credits				**15-16**

Semester 8		Critical	Recommended	AUCC	Credits
ERHS 410	Environmental Health-Air and Waste Management	X		4B	3
ERHS 430	Human Disease and the Environment	X			3
ERHS 450	Introduction to Radiation Biology	X			3
Electives		X			5
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)				1C	3
The benchmark courses for Semester 8 are the remaining courses in the entire program of study.		X			
	Total Credits				**17**
	Program Total Credits:				**120**