MAJOR IN BIOMEDICAL SCIENCES, ENVIRONMENTAL PUBLIC HEALTH CONCENTRATION

Requirements
Effective Fall 2022

Freshman

		AUCC	Credits
CHEM 111	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
CHEM 113	General Chemistry II		3
CHEM 114	General Chemistry Lab II		1
CO 150	College Composition (GT-CO2)	1A	3
ERHS 220	Environmental Health		3
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	4
MIP 260	The World of Parasites		3
VMBS 100	Introduction to Biomedical Sciences Major		2
Select a minimum of 3 credits from the following:			3-4
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	
	Total Credits		**27-28**

Sophomore

ERHS 230	Environmental Health Field Methods		3
MIP 300	General Microbiology		3
MIP 302	General Microbiology Laboratory		2
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)	3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)	3A	
Select one course from the following:			3
STAT 301	Introduction to Applied Statistical Methods		
STAT 307	Introduction to Biostatistics		
Select one group from the following:			8
Group A			
CHEM 245	Fundamentals of Organic Chemistry		
CHEM 246	Fundamentals of Organic Chemistry Laboratory		
CHEM 338 or ERHS 448	Environmental Chemistry Environmental Contaminants		
Group B			

CHEM 341	Modern Organic Chemistry I		
CHEM 343	Modern Organic Chemistry II		
CHEM 344	Modern Organic Chemistry Laboratory		
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)		3C	3
	Total Credits		**31**
Junior			
BC 351	Principles of Biochemistry		4
ERHS 320	Environmental Health--Water Quality	4A	3
ERHS 332	Principles of Epidemiology		3
ERHS 350	Principles of Occupational Safety and Health		3
ERHS 479	Environmental Health Practice	4C	1
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		
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	6
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
	Total Credits		**29**
Senior			
ERHS 410	Environmental Health-Air and Waste Management	4B	3
ERHS 430	Human Disease and the Environment		3
ERHS 446	Environmental Toxicology		3
ERHS 450	Introduction to Radiation Biology		3
ERHS 487	Internship-Environmental Health	4C	4
Program Electives[1]			5
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
Electives[2]			8-9
	Total Credits		**32-33**
	Program Total Credits:		**120**

1 Must be related to major and approved by an ERHS key advisor.

2 Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).