

MAJOR IN NATURAL SCIENCES, CHEMISTRY EDUCATION 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
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	4
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	3A	4
Select one group from the following:			8
Group A:			
MATH 155	Calculus for Biological Scientists I (GT-MA1)	1B	
MATH 255	Calculus for Biological Scientists II	1B	
Group B:			
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	
MATH 161	Calculus for Physical Scientists II (GT-MA1)	1B	
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3
Total Credits			31

Sophomore

EDUC 275	Schooling in the United States (GT-SS3)	3C	3
EDUC 340	Literacy and the Learner		3
STAT 301	Introduction to Applied Statistical Methods		3
Select one group from the following:			8
Group A:			
CHEM 341	Modern Organic Chemistry I		
CHEM 343	Modern Organic Chemistry II		
CHEM 344	Modern Organic Chemistry Laboratory		
Group B:			
CHEM 345	Organic Chemistry I		
CHEM 346	Organic Chemistry II		
Select one group from the following:			10
Group A:			
PH 121	General Physics I (GT-SC1)	3A	
PH 122	General Physics II (GT-SC1)	3A	
Group B:			
PH 141	Physics for Scientists and Engineers I (GT-SC1)	3A	
PH 142	Physics for Scientists and Engineers II (GT-SC1)	3A	
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3

Science Elective ¹			2
Total Credits			32
Junior			
BC 351	Principles of Biochemistry		4
CHEM 261	Fundamentals of Inorganic Chemistry		3
CHEM 473	Foundations of Physical Chemistry		4
EDUC 350	Instruction I-Individualization/Management		3
EDUC 386	Practicum-Instruction I		1
EDUC 461A	Secondary Science and Technology Education I		3
EDUC 461B	Secondary Science and Technology Education II		3
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)		2	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Science Elective ¹			3
Total Credits			30
Senior			
CHEM 334	Quantitative Analysis Laboratory		1
CHEM 335	Introduction to Analytical Chemistry		3
EDUC 450	Instruction II-Standards and Assessment		4
EDUC 485B	Student Teaching: Secondary	4A,4B,4C	11
EDUC 486E	Practicum: Instruction II		1
EDUC 493A	Seminar: Professional Relations	4C	1
Select one group from the following:			4
Group A:			
AA 100	Introduction to Astronomy (GT-SC2)	3A	
AA 101	Astronomy Laboratory (GT-SC1)	3A	
Group B:			
GEOL 120	Exploring Earth - Physical Geology (GT-SC2)	3A	
GEOL 121	Introductory Geology Laboratory (GT-SC1)	3A	
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
Total Credits			28
Program Total Credits:			121

¹ Select course(s) in consultation with advisor.