

MAJOR IN NATURAL SCIENCES, GEOLOGY 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
GEOL 154	Historical and Analytical Geology		4
Select one from the following:			3
AA 100	Introduction to Astronomy (GT-SC2)	3A	
NR 150	Oceanography (GT-SC2)	3A	
Select one group from the following:			4
Group A:			
GEOL 120	Exploring Earth - Physical Geology (GT-SC2)	3A	
GEOL 121	Introductory Geology Laboratory (GT-SC1)	3A	
Group B:			
GEOL 150	Physical Geology for Scientists and Engineers	3A	
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	
Total Credits			31

Sophomore

EDUC 275	Schooling in the United States (GT-SS3)	3C	3
EDUC 340	Literacy and the Learner		3
GEOL 232	Mineralogy		3
STAT 301	Introduction to Applied Statistical Methods		3
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	
Select one Geology Elective course from the following:			3-4
GEOL 250	The Solid Earth		
GEOL 342	Paleontology		
GEOL 344	Stratigraphy and Sedimentology		

GEOL 364	Igneous and Metamorphic Petrology		
GEOL 372	Structural Geology		
GEOL 424			
GEOL 446	Environmental Geology		
GEOL 452	Hydrogeology		
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Science Elective ¹			3

Total Credits**31-32****Junior**

ATS 350	Introduction to Weather and Climate		2
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
GEOL 454	Geomorphology		4
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	4
Select one Geology Elective course from the following:			3-4
GEOL 250	The Solid Earth		
GEOL 342	Paleontology		
GEOL 344	Stratigraphy and Sedimentology		
GEOL 364	Igneous and Metamorphic Petrology		
GEOL 372	Structural Geology		
GEOL 424			
GEOL 446	Environmental Geology		
GEOL 452	Hydrogeology		
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)		2	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3

Total Credits**32-33****Senior**

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
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	3A	4
Select one Geology Elective course from the following:			3-4
GEOL 250	The Solid Earth		
GEOL 342	Paleontology		
GEOL 344	Stratigraphy and Sedimentology		
GEOL 364	Igneous and Metamorphic Petrology		
GEOL 372	Structural Geology		
GEOL 424			
GEOL 446	Environmental Geology		
GEOL 452	Hydrogeology		

Arts and Humanities (<http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/> 3B #arts-humanities) 3

Total Credits	27-28
Program Total Credits:	121-124

¹ Select course(s) in consultation with advisor.