

MAJOR IN GEOSCIENCES, ENVIRONMENTAL GEOLOGY CONCENTRATION

Major Completion Map

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)	X		1A	3
GEOL 150	Dynamic Earth (GT-SC2)	X		3A	4
GEOL 192	New Student Seminar--Exploring Geosciences	X			1
MATH 160	Calculus for Physical Scientists I (GT-MA1)	X		1B	4
Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioural-sciences)			X	3C	3

Total Credits

15

Semester 2		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
GEOL 154	Earth and Climate Change Through Time	X			4
1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		X		1C	3
Elective			X		3
CO 150 and MATH 160 must be completed by the end of Semester 2.		X			

Total Credits

15

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
CHEM 113	General Chemistry II	X			3
CHEM 114	General Chemistry Lab II	X			1
GEOL 310	Earth Materials	X			4
GEOL 311	Earth's Interior	X			3
MATH 161	Calculus for Physical Scientists II (GT-MA1)	X		1B	4

Total Credits

15

Semester 4		Critical	Recommended	AUCC	Credits
GEOL 312	Earth's Surface	X			2
GEOL 313	Earth Systems	X			2
GEOL 314	Earth's Surface Laboratory	X			1
Select one course from the following:		X			3
CO 300	Writing Arguments (GT-CO3)			2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
Select one course from the following:		X			5
PH 121	General Physics I (GT-SC1)			3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)			3A	
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3
CHEM 113 must be completed by the end of Semester 4.		X			

Total Credits

16

Junior

Semester 5		Critical	Recommended	AUCC	Credits
GEOL 344	Stratigraphy and Sedimentology	X		4A	3

NR 319	Introduction to Geospatial Science	X			4
SOCR 240	Introductory Soil Science	X			4
Select one course from the following:		X			3
STAT 301	Introduction to Applied Statistical Methods				
STAT 315	Intro to Theory and Practice of Statistics				
GEOL 344 and PH 121 or 141 must be completed by the end of Semester 5.		X			
Total Credits					14
Semester 6		Critical	Recommended	AUCC	Credits
GEOL 372	Structural Geology	X		4B	4
GEOL 376	Geologic Field Methods	X		4A,4C	2
GEOL 446	Environmental Geology	X			3
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
MATH 161 and STAT 301 or STAT 315 must be completed by the end of Semester 6.		X			
Total Credits					12
Summer		Critical	Recommended	AUCC	Credits
GEOL 476	Field Geoscience Capstone	X		4A,4C	4
Total Credits					4
Senior					
Semester 8		Critical	Recommended	AUCC	Credits
Environmental Geosciences (select one from the following):		X			3-4
GEOL 366	Low-Temperature Geochemistry				
GEOL 415	Critical Zone Science				
GEOL 452	Hydrogeology				
SOCR 470	Soil Physics				
Directed Technical Elective (See List on Concentration Requirements tab)		X			6
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
Total Credits					12-13
Semester 9		Critical	Recommended	AUCC	Credits
GEOL 454	Geomorphology	X			3
Directed Technical Elective (See Department List on Concentration Requirements tab)		X			6
Electives		X			7-8
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.		X			
Total Credits					16-17
Program Total Credits:					120