

MAJOR IN GEOSCIENCES, GEOPHYSICS CONCENTRATION

Major Completion Map

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)	X		1A	3
GEOL 150	Dynamic Earth (GT-SC2)	X		3A	4
GEOL 192	New Student Seminar--Exploring Geosciences	X			1
Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioural-sciences)			X	3C	3

Total Credits

16

Semester 2		Critical	Recommended	AUCC	Credits
GEOL 154	Earth and Climate Change Through Time	X			4
MATH 160	Calculus for Physical Scientists I (GT-MA1)	X		1B	4
1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		X		1C	3
Elective			X		3
CO 150 and 1B must be completed by the end of Semester 2.		X			

Total Credits

14

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
MATH 151	Mathematical Algorithms in Matlab I	X			1
MATH 261	Calculus for Physical Scientists III	X			4
PH 141	Physics for Scientists and Engineers I (GT-SC1)	X		3A	5
CHEM 113 must be completed by the end of Semester 4.		X			

Total Credits

15

Junior

Semester 5		Critical	Recommended	AUCC	Credits
GEOL 344	Stratigraphy and Sedimentology	X		4A	3
PH 142	Physics for Scientists and Engineers II (GT-SC1)	X		3A	5
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3

MATH 261 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
MATH 340	Intro to Ordinary Differential Equations	X			4
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	
Total Credits					13
Summer		Critical	Recommended	AUCC	Credits
GEOL 476	Field Geoscience Capstone	X		4A,4C	4
Total Credits					4
Senior					
Semester 8		Critical	Recommended	AUCC	Credits
Select one course from the following		X			4
GEOL 440	Geodetic and Near-Surface Geophysical Methods				
GEOL 442	Applied Geophysics				
Directed Technical Electives (See list on Concentration Requirements tab)		X			6
Electives			X		5
Total Credits					15
Semester 9		Critical	Recommended	AUCC	Credits
GEOL 3XX - 5XX		X			6
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		X		3B	3
Electives					5
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.		X			
Total Credits					14
Program Total Credits:					120