

MAJOR IN GEOLOGY, 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 (http://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	Historical and Analytical Geology	X			4
MATH 160	Calculus for Physical Scientists I (GT-MA1)	X		1B	4
1C (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		X		1C	3
Electives			X		3
CO 150 and AUCC 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 232	Mineralogy	X			3
MATH 161	Calculus for Physical Scientists II (GT-MA1)	X		1B	4
PH 141	Physics for Scientists and Engineers I (GT-SC1)	X		3A	5

Total Credits

16

Semester 4		Critical	Recommended	AUCC	Credits
GEOL 250	The Solid Earth	X			3
GEOL 364	Igneous and Metamorphic Petrology	X		4B	4
MATH 151	Mathematical Algorithms in Matlab I	X			1
MATH 261	Calculus for Physical Scientists III	X			4
Historical Perspectives (http://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

15

Junior

Semester 5		Critical	Recommended	AUCC	Credits
GEOL 344	Stratigraphy and Sedimentology	X		4A	4
PH 142	Physics for Scientists and Engineers II (GT-SC1)	X		3A	5
Select one course from the following:		X			3
MATH 369	Linear Algebra I				
STAT 301	Introduction to Applied Statistical Methods				
STAT 315	Intro to Theory and Practice of Statistics				

Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		X	3B	3
MATH 261 must be completed by the end of Semester 5.		X		
Total Credits				15
Semester 6	Critical	Recommended	AUCC	Credits
GEOL 372 Structural Geology	X		4B	4
GEOL 376 Geologic Field Methods	X		4A,4C	3
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				14
Semester 7	Critical	Recommended	AUCC	Credits
GEOL 436 Geology Summer Field Course	X		4C	6
Total Credits				6
<i>Senior</i>				
Semester 8	Critical	Recommended	AUCC	Credits
Directed Technical Electives (See Department List on Concentration Requirements tab)	X			8
Electives		X		2-6
STAT 301, STAT 315, or MATH 369 must be completed by the end of Semester 8.	X			
Total Credits				10-14
Semester 9	Critical	Recommended	AUCC	Credits
Directed Technical Electives (See Department List on Concentration Requirements tab)	X			4-6
Upper-Division Geology Elective	X			3-5
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3B	3
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.	X			
Total Credits				10-14
Program Total Credits:				120