

MAJOR IN GEOLOGY, HYDROGEOLOGY 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
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			X	3C	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humaitiies)				3B	3

Total Credits

14

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	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
CO 150 must be completed by the end of Semester 2.		X			

Total Credits

16

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
GEOL 344	Stratigraphy and Sedimentology	X		4A	4
MATH 161	Calculus for Physical Scientists II (GT-MA1)	X		1B	4

Total Credits

15

Semester 4		Critical	Recommended	AUCC	Credits
GEOL 364	Igneous and Metamorphic Petrology	X		4B	4
PH 141	Physics for Scientists and Engineers I (GT-SC1)	X		3A	5
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	
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 366	Sedimentary Petrology and Geochemistry	X		4A,4B	4
MATH 261	Calculus for Physical Scientists III	X			4
Select one course from the following:		X			3-5
PH 142	Physics for Scientists and Engineers II (GT-SC1)			3A	

SOCR 470	Soil Physics				
GEOL 344 must be completed by the end of Semester 5.		X			
Total Credits					11-13
Semester 6		Critical	Recommended	AUCC	Credits
GEOL 372	Structural Geology	X		4B	4
GEOL 376	Geologic Field Methods	X		4A,4C	3
Select one course from the following:		X			3
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
Total Credits					13
Semester 7		Critical	Recommended	AUCC	Credits
GEOL 436	Geology Summer Field Course	X		4C	6
Total Credits					6
Senior					
Semester 8		Critical	Recommended	AUCC	Credits
GEOL 452	Hydrogeology	X			4
MATH 340	Intro to Ordinary Differential Equations	X			4
NR 319	Introduction to Geospatial Science	X			4
WR 416	Land Use Hydrology	X			3
GEOL 366 must be completed by the end of Semester 8.		X			
Total Credits					15
Semester 9		Critical	Recommended	AUCC	Credits
GEOL 454	Geomorphology	X			4
Directed Technical Electives (See Department List on Concentration Requirements tab)		X			6
Electives		X			3-5
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.		X			
Total Credits					13-15
Program Total Credits:					120