

# MAJOR IN GEOLOGY, 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 ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioural-sciences">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioural-sciences</a> )			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	Historical and Analytical Geology	X			4
1C ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc</a> )		X		1C	3
Electives			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 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
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)		X	3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)		X	3A	
Historical Perspectives ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives</a> )			X		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
SOCR 240	Introductory Soil Science	X			4
Select one course from the following:		X			3-5

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PH 122	General Physics II (GT-SC1)			3A	
PH 142	Physics for Scientists and Engineers II (GT-SC1)			3A	
SOCR 470	Soil Physics				
Select one course from the following:		X			3-4
MATH 340	Intro to Ordinary Differential Equations				
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			
<b>Total Credits</b>					<b>14-17</b>
<b>Semester 6</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
GEOL 372	Structural Geology	X		4B	4
GEOL 376	Geologic Field Methods	X		4A,4C	3
NR 319	Introduction to Geospatial Science	X			4
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )			X	3B	3
MATH 161 and STAT 301 or MATH 340 or STAT 315 must be completed by the end of Semester 6.		X			
<b>Total Credits</b>					<b>14</b>
<b>Semester 7</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
GEOL 436	Geology Summer Field Course	X		4C	6
<b>Total Credits</b>					<b>6</b>
<i>Senior</i>					
<b>Semester 8</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
GEOL 452	Hydrogeology	X			4
WR 416	Land Use Hydrology	X			3
Directed Technical Elective (See Department List on Concentration Requirements tab)		X			3
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )			X	3B	3
GEOL 366 must be completed by the end of Semester 8.		X			
<b>Total Credits</b>					<b>13</b>
<b>Semester 9</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
GEOL 446	Environmental Geology	X			3
GEOL 454	Geomorphology	X			4
Directed Technical Elective (See Department List on Concentration Requirements tab)		X			3
Electives		X			0-3
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.		X			
<b>Total Credits</b>					<b>10-13</b>
<b>Program Total Credits:</b>					<b>120</b>