

2025-2026
Program Map
BS in Earth and Environmental Sciences
Professional Geology Concentration

YEAR 1

TERM 1		TERM 2	
Course	Credits	Course	Credits
C1 ENGL 1101	3	C2 ENGL 1102	3
M MATH 1113	3	F GEOG 1112+1112L	4
F GEOL 1121+1121L	4	F GEOL 1122+1122L	4
I1: Institutional Priority	3	P1 HIST 21111 or HIST 2112	3
A1 Arts, Humanities & Ethics	3		
SEMESTER TOTAL	16	SEMESTER TOTAL	14
Milestones		Milestones	
<ul style="list-style-type: none"> • Complete ENGL 1101 C or better • Complete MATH 1113 B or better 		<ul style="list-style-type: none"> • Complete ENGL 1102 C or better • Complete GEOL 1121-1122 sequence C or better • Target: 30 credit hours completed. 	

YEAR 2

TERM 1		TERM 2	
Course	Credits	Course	Credits
T1 CHEM 1211+1211L (supporting major)	4	GEOL/GEOL 2333	2
GEOL 3004 Field Geology	4	GEOL 3034 Structural Geology	4
F MATH 1401 or MATH 1634 (supporting major)	3/4	I2: Other Institutional Priority	1
P2 POLS 1101	3	A2 Arts, Humanities & Ethics	3
		F GEOG 2553	3
		T2 STEM	3
SEMESTER TOTAL	14/15	SEMESTER TOTAL	
Milestones		Milestones	
<ul style="list-style-type: none"> • Complete CHEM 1211/1211L • Complete Field Geology (GEOL 3004) C or better • Plan for courses offered only alternate years • Target: 45 credit hours completed 		<ul style="list-style-type: none"> • Complete CHEM 1212/1212L • Complete Structural (Geol 3034) • Plan for courses offered only alternate years • Target: 60 credit hours completed • Complete GEOL/GEOL 2333 	

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YEAR 3			
TERM 1		TERM 2	
Course	Credits	Course	Credits
GEOL 3014 Mineralogy	4	GEOL 3024 Ig. & Met. Petrology	4
GEOL Elective	3	GEOL 4084 Hydrogeology	4
T3 STEM	4	S2 Social Science Elective	3
S1 HIST 1111 or 1112	3	GEOL/GEOG 3333	1-3
		GEOL Elective	3
SEMESTER TOTAL	14	SEMESTER TOTAL	15-17
Milestones		Milestones	
<ul style="list-style-type: none"> Complete Mineralogy (Geol 3014) C or better Plan for courses offered only alternate years Target: 75 credit hours completed. 		<ul style="list-style-type: none"> Complete Ig/Met (Geol 3024) C or better Target: 90 credit hours completed. Complete GEOL/GEOG 3333 	
YEAR 4			
TERM 1		TERM 2	
Course	Credits	Course	Credits
GEOL 4034 Sedimentology and Stratigraphy	4	GEOL 4604 Economic Geology	4
GEOL 4024 Paleontology	4	Elective	4
GEOL/GEOG 4333	2	Elective	4
Elective	3	Elective	3
Elective	3		
SEMESTER TOTAL	16	SEMESTER TOTAL	15
Milestones		Milestones	
<ul style="list-style-type: none"> Target: 105 credit hours completed (104/105) Complete GEOL/GEOG 4333 		<ul style="list-style-type: none"> Complete GEOL 4064 Target: 120 credit hours completed 	

GEOLOGY COURSES OFFERED ONLY ALTERNATE YEARS:

Fall, odd-numbered years:

GEOL 3603 Environmental Geology (3)

GEOL 4003 Geomorphology (3)

GEOL 4044 Engineering Geology (4), possible in even fall

Spring, even-numbered years:

GEOL 4083 Environmental Geochemistry (3)

Spring, odd-numbered years:

GEOL 4014 Geochemistry (4)

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