

College of Science, Technology, Engineering, and Mathematics

Geology BA

(66-72 credits)

Why study Geology?

Geology is the science of planet Earth. Geologists use elements of chemistry, physics, biology and mathematics in interpreting the evolution of the earth and its life forms. Applied geology addresses exploration of earth resources, environmental quality and hazards and practical understanding of the planet on which we live. Geologists at EWU use elements of chemistry, physics, biology and mathematics to interpret the history of the Earth and its life forms. Courses address Earth resources, evaluation of natural hazards and environmental quality. Faculty and students use advanced chemical and physical analytical techniques and computers to understand and model natural systems.

Other Degree Options

BS in Geology BAE in Earth and Space Science , Secondary Education
Minor in Geology

Career Opportunities

Employment opportunities include such varied possibilities as park naturalist, urban and regional planner, or geological technician.



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<http://www.ewu.edu/cstem>

This is an example of a four year class schedule. Academic Advisors are there to help create individualized plans.

First Year	Fall 1	Q2	Q3
	CHEM 171 (4 cr.)	BACR (5 cr.)	BACR (5 cr.)
	CHEM 171L (1 cr.)	ENGL 201 (5 cr.)	BACR (5 cr.)
	ENGL 101 (5 cr.)	GEOL 120 (5 cr.)	GEOL 121 (5 cr.)
	MATH 142 (5 cr.)		
Second Year	Q5	Q6	Q7
	BIOL 171 or CHEM 172 & 17	General Elective (5 cr.)	Diversity (upper-division) (5
	GEOL 122 (5 cr.)	General Elective (5 cr.)	General Elective (5 cr.)
GEOL 311 (4 cr.)	GEOL 312 (4 cr.)	GEOL 297 Workshop, Semina	
		GEOL 313 (4 cr.)	
Third Year	Q9	Q10	Q11
	General Elective (2 cr.)	BACR (5 cr.)	General Elective (3 cr.)
	GEOL upper-level elective (s	Upper Div Elective (5 cr.)	General Elective (5 cr.)
	GEOL upper-level elective (s	Upper Div Elective (5 cr.)	GEOL 320 (4 cr.)* or 360 (4 c
		GEOL upper-level elective (s	
Fourth Year	Q13	Q14	Q15
	GEOL 490 (10 cr.) or 490A or	General Elective (5 cr.)	General Elective (5 cr.)
	GEOL upper- level elective (s	General Elective (5 cr.)	General Elective (5 cr.)
	GEOL upper-level elective (s	General Elective (5 cr.)	General Elective (5 cr.)
	GEOL upper-level elective (s		

Listed is a Sample Four Year Plan. Individual plans will vary based on placement test scores and course availability.

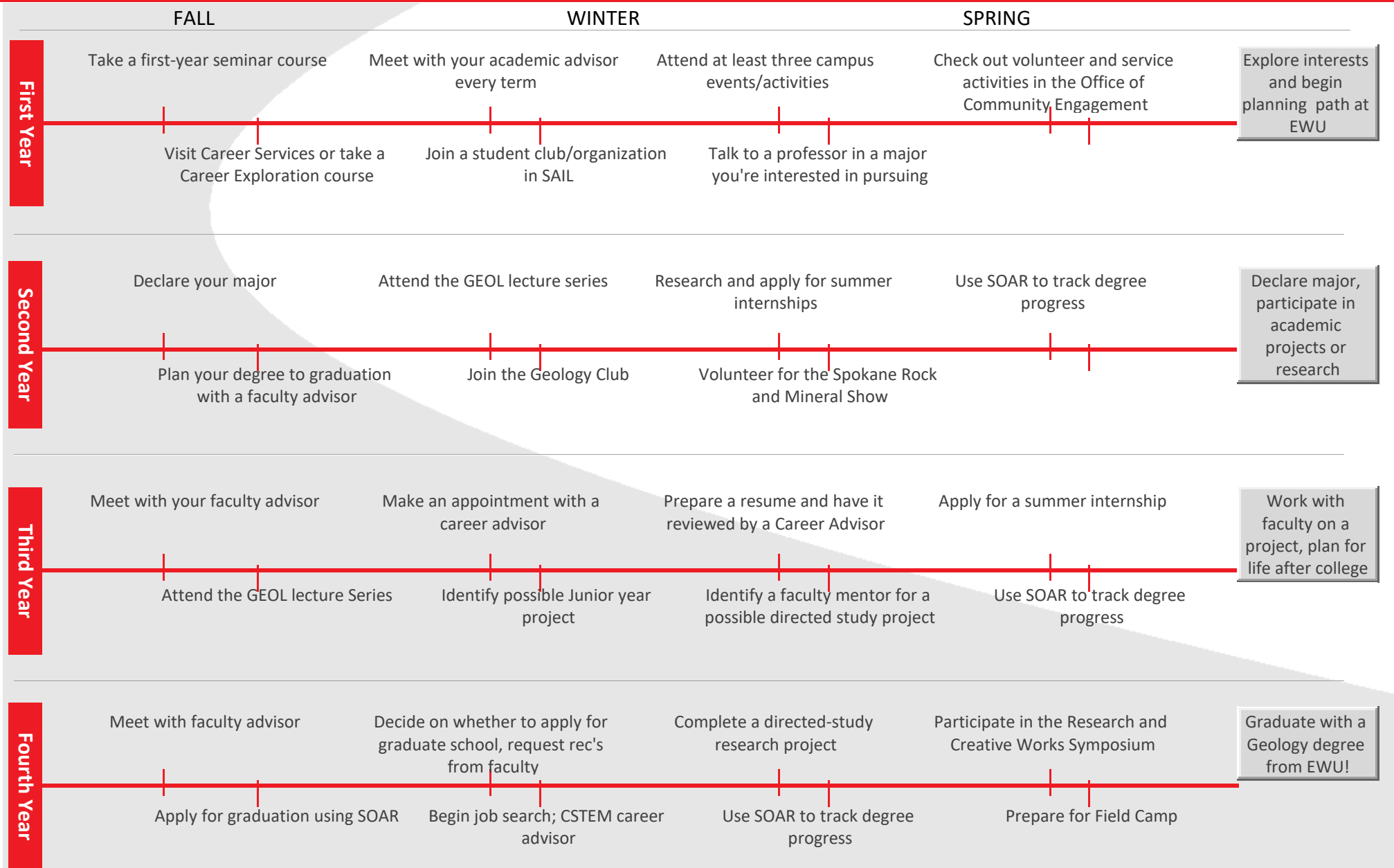


Flight Plan to Success

The following milestones will help you succeed and improve your experience at EWU.

Geology, BA

College of Science, Technology, Engineering, and Mathematics
Geology



All recommended activities can occur at any time during a student's time at EWU



Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics
 SOAR Department: Geology | SOAR Major: GEOL BA
 Major Declaration Form: Geology, BA-GEOL
 Math proficiency needed: MATH 142

Bachelor of Arts in Geology
 2019-2020 Catalog Year

First year courses and prerequisites	Notes	Previously offered **
Q1 CHEM 171 GENERAL CHEMISTRY I (4 cr.) Prerequisites: ?C in MATH 141 or concurrent enrollment; ?C in CHEM 100 or ?C in CHEM 161 or one year of high school chemistry.		
Q1 CHEM 171L GENERAL CHEM LABORATORY I (1 cr.) Prerequisite: CHEM 171 or taken concurrently.		
Q1 ENGL 101 COLL COMP: EXPOSITN & ARGUMNT (5 cr.) Prerequisite: Writing Placement Test or General Advising.□		F18, W19, S19
Q1 MATH 142 PRECALCULUS MATH II (5 cr.) Prerequisite: MATH 141 or equivalent.		F18, W19, S19
Q2 BACR (5 cr.)		
Q2 ENGL 201 COLL COMP: ANALYSIS/RES/DOCMNT (5 cr.) Prerequisite: ENGL 101, Writing Placement Test or general advising.		F18, W19, S19
Q2 GEOL 120 PHYS GEOL - THE SOLID EARTH (5 cr.) Prerequisite: MTHD 104 or equivalent.	Note: required weekly laboratories and one field trip may be required.□□	F18, W19
Q3 BACR (5 cr.)		
Q3 BACR (5 cr.)		
Q3 GEOL 121 PHYS GEOL - SURFICIAL PROCESS (5 cr.) Note: weekly laboratories are required and one field trip may be required.		W19, S19

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

** Future course offerings may differ from the past. Check the course schedule for future courses.

To follow this MAP, you should place into MATH 142. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

In addition to the courses listed above, this major requires completion of two years of the same foreign language in high school or one year of a college-level foreign language.

Second year courses and prerequisites	Notes	Previously offered **
Q5 BIOL 171 or CHEM 172 & 172L or Math 161 or Math 380 or PHYS 131 & PHYS 161 (5 cr.)	Some of these are upper division, some lower	
Q5 GEOL 122 HISTORICAL GEOLOGY (5 cr.) Prerequisite: GEOL 121.		S19
Q5 GEOL 311 EARTH MATERIALS (4 cr.) Prerequisites: GEOL 120 and CHEM 171 and CHEM 171L.		F18
Q6 General Elective (5 cr.)		
Q6 General Elective (5 cr.)		
Q6 GEOL 312 CRYST AND OPT MIN (4 cr.) Prerequisite: GEOL 311.		W19
Q7 Diversity (upper-division) (5 cr.)		
Q7 General Elective (5 cr.)		
Q7 GEOL 297 Workshop, Seminar, Conference, etc. (1 cr.)	1-5 credits	
Q7 GEOL 313 IGNEOUS & METAMORPHIC PETROL (4 cr.) Prerequisites: GEOL 311 and GEOL 312.		S19

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

** Future course offerings may differ from the past. Check the course schedule for future courses.

To follow this MAP, you should place into MATH 142. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

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Third year courses and prerequisites

Notes

Previously offered **

Q9	General Elective (2 cr.)	
Q9	GEOL upper-level elective (see catalog) (4 cr.)	
Q9	GEOL upper-level elective (see catalog) (4 cr.)	
Q9	Global (upper-division) (5 cr.)	
Q10	BACR (5 cr.)	
Q10	Upper Div Elective (5 cr.)	
Q10	Upper Div Elective (5 cr.)	
Q11	General Elective (3 cr.)	
Q11	General Elective (5 cr.)	
Q11	GEOL 320 (4 cr.)* or 360 (4 cr.)* (4 cr.)	
Q11	GEOL upper-level elective (see catalog) (4 cr.)	

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

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To follow this MAP, you should place into MATH 142. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

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Fourth year courses and prerequisites

Notes

Previously offered **

Q13	GEOL 490 (10 cr.) or 490A or 490B or 491 (4 cr.)	4-10 credits possible	
Q13	GEOL upper- level elective (see catalog) (4 cr.)		
Q13	GEOL upper-level elective (see catalog) (4 cr.)		
Q13	GEOL upper-level elective (see catalog) (4 cr.)		
Q14	General Elective (5 cr.)		
Q14	General Elective (5 cr.)		
Q14	General Elective (5 cr.)		
Q15	General Elective (5 cr.)		
Q15	General Elective (5 cr.)		
Q15	General Elective (5 cr.)		

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

** Future course offerings may differ from the past. Check the course schedule for future courses.

To follow this MAP, you should place into MATH 142. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

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