

College of Science, Technology, Engineering, and Mathematics

Geology BS

(108 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

BA in Geology; BAE in Earth and Space Science , Secondary Education; Minor in Geology

Career Opportunities

Geotechnical and environmental fields, petroleum industry, mineral exploration and mining, hydrogeology



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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	<p>Q1</p> <p>CHEM 151 (5 cr.) ENGL 101 (5 cr.) MATH 161 (5 cr.)</p>	<p>Q2</p> <p>MATH 162 or MATH 380 (5 c CHEM 152 (5 cr.) ENGL 201 (5 cr.)</p>	<p>Q3</p> <p>BACR (5 cr.) BACR (5 cr.) CHEM 153 (5 cr.)</p>
Second Year	<p>Q5</p> <p>BIOL or PHYS sequence (see General Elective (5 cr.) GEOL 120 (5 cr.)</p>	<p>Q6</p> <p>BACR (5 cr.) BIOL or PHYS sequence (see GEOL 121 (5 cr.)</p>	<p>Q7</p> <p>BIOL or PHYS sequence (see General Elective (5 cr.) GEOL 122 (5 cr.)</p>
Third Year	<p>Q9</p> <p>Diversity (5 cr.) General Elective (5 cr.) GEOL 311 (4 cr.)</p>	<p>Q10</p> <p>General Elective (5 cr.) GEOL upper-level elective (s GEOG 323 (3 cr.) GEOL 312 (4 cr.)</p>	<p>Q11</p> <p>General Elective (2 cr.) GEOL upper-level elective (s Global (5 cr.) GEOL 313 (4 cr.)</p>
Fourth Year	<p>Q13</p> <p>General Elective (1 cr.) GEOL upper-level elective (s GEOL 408 (4 cr.) GEOL 411 (4 cr.)</p>	<p>Q14</p> <p>GEOL upper-level elective (s Upper- level Elective (5 cr.) GEOL 430 (4 cr.)</p>	<p>Q15</p> <p>General Elective (4 cr.) GEOL 431 (4 cr.) GEOL 490 (10 cr.)</p>

#Error

#Name?

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

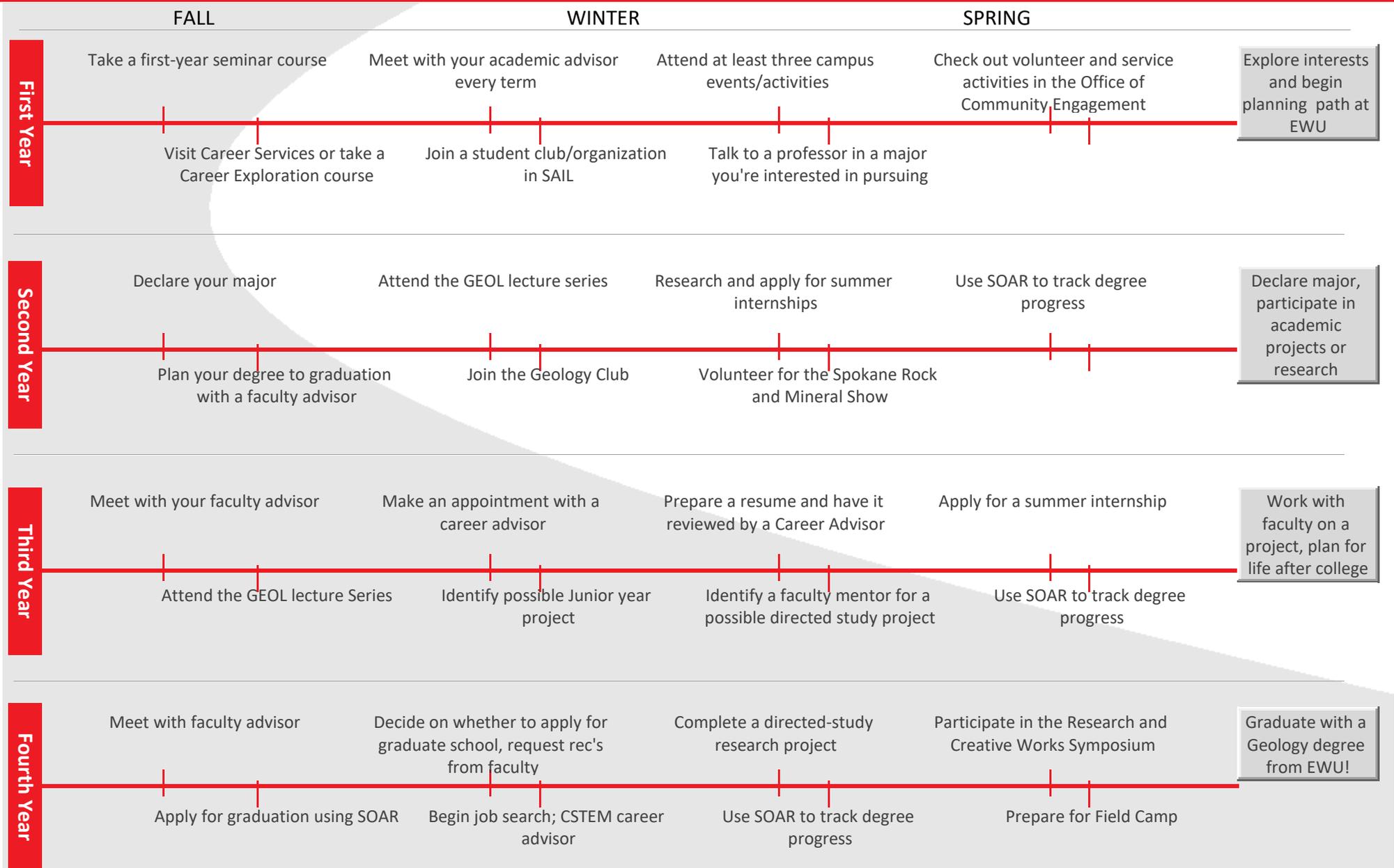


Flight Plan to Success

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

Geology, BS

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 BS
 Major Declaration Form: Geology, BS-GEOL
 Math proficiency needed: MATH 161 or 380

Bachelor of Science in Geology
 2018-2019 Catalog Year

First year courses and prerequisites	Notes	Previously offered **
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q1</div> CHEM 151 GENERAL CHEMISTRY (5 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.	Satisfies: a BACR for natural sciences. Note: quantitative and qualitative laboratory work is included.	F17, W18, Sp18
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q1</div> ENGL 101 COLL COMP: EXPOSITN & ARGUMNT (5 cr.) Prerequisite: Writing Placement Test or General Advising.	Satisfies: university competencies, writing.	F17, W18, Sp18, Su18
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q1</div> MATH 161 CALCULUS I (5 cr.) Prerequisites: MATH 142.	Satisfies: completion of this course with a grade ≥ C satisfies the university proficiencies in mathematics. Note: for the university proficiencies, this course may be substituted for MATH 107.	F17, W18, Sp18, Su18
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q2</div> MATH 162 or MATH 380 (5 cr.)		
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q2</div> CHEM 152 GENERAL CHEMISTRY (5 cr.) Prerequisites: ≥C- in CHEM 151, or instructors permission, and a ≥C in MATH 141.	Satisfies: a BACR for natural sciences. Note: laboratory work includes quantitative and qualitative analysis.	F17, W18, Sp18, Su18
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q2</div> ENGL 201 COLL COMP: ANALYSIS/RES/DOCMNT (5 cr.) Prerequisite: ENGL 101, Writing Placement Test or general advising.	Satisfies: university proficiencies, writing.	F17, W18, Sp18, Su18
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q3</div> BACR (5 cr.)		
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q3</div> BACR (5 cr.)		
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q3</div> CHEM 153 GENERAL CHEMISTRY (5 cr.) Prerequisites: ≥C- in CHEM 152 or permission of instructor.		F17, W18, Sp18, Su18

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 161 or 380. 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.

Second year courses and prerequisites

Notes

Previously offered **

Q5	BIOL or PHYS sequence (see catalog) (5 cr.)		
Q5	General Elective (5 cr.)		
Q5	GEOL 120 PHYS GEOL - THE SOLID EARTH (5 cr.) Prerequisites: MTHD 104 or equivalent.	Satisfies: the completion of GEOL 120 counts as one course for the BACR in natural science; the completion of GEOL 120 and GEOL 121 counts as two courses for the BACR for natural science. Note: weekly laboratories and one field trip are required.	F17, W18, Su18
Q6	BACR (5 cr.)		
Q6	BIOL or PHYS sequence (see catalog) (5 cr.)		
Q6	GEOL 121 PHYS GEOL - SURFICIAL PROCESS (5 cr.) Prerequisites: MTHD 104 or equivalent.	Satisfies: the completion of GEOL 121 counts as one course for the BACR in natural science; the completion of GEOL 120 and GEOL 121 counts as two courses for the BACR for natural science. Note: weekly laboratories and one field trip are required.	W18, Sp18
Q7	BIOL or PHYS sequence (see catalog) (5 cr.)		
Q7	General Elective (5 cr.)		
Q7	GEOL 122 HISTORICAL GEOLOGY (5 cr.) Prerequisite: GEOL 121.		W18, Sp18

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Third year courses and prerequisites

Notes

Previously offered **

Q9	Diversity (5 cr.)		
Q9	General Elective (5 cr.)		
Q9	GEOL 311 EARTH MATERIALS (4 cr.) Prerequisites: GEOL 120 and CHEM 151.		F17
Q10	General Elective (5 cr.)		
Q10	GEOL upper-level elective (see catalog) (4 cr.)		
Q10	GEOG 323 GIS FOR ENVIRONMENTAL SCIENCES (3 cr.)	Note: includes hands-on GIS work in the lab.	W18
Q10	GEOL 312 CRYST AND OPT MIN (4 cr.) Prerequisite: GEOL 311.		W18
Q11	General Elective (2 cr.)		
Q11	GEOL upper-level elective (see catalog) (4 cr.)		
Q11	Global (5 cr.)		
Q11	GEOL 313 IGNEOUS & METAMORPHIC PETROL (4 cr.) Prerequisites: GEOL 311 and GEOL 312.		Sp18

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Fourth year courses and prerequisites	Notes	Previously offered **
Q13 General Elective (1 cr.)		
Q13 GEOL upper-level elective (see catalog) (5 cr.)		
Q13 GEOL 408 INVERTEBRATE PALEONTOLOGY (4 cr.) Prerequisites: GEOL 121, GEOL 122 or permission of the instructor.		F17
Q13 GEOL 411 SEDIMENTOLOGY AND STRATIGRAPHY (4 cr.) Prerequisite: GEOL 122 and GEOL 311.		F17
Q14 GEOL upper-level elective (see catalog) (4 cr.)		
Q14 Upper-level Elective (5 cr.)		
Q14 GEOL 430 STRUCTURAL GEOLOGY I (4 cr.) Prerequisite: GEOL 411.		W18
Q15 General Elective (4 cr.)		
Q15 GEOL 431 STRUCTURAL GEOLOGY II (4 cr.) Prerequisite: GEOL 430.		Sp18
Q15 GEOL 490 SENIOR CAPSTONE:FIELD CAMP (10 cr.) Prerequisite: junior or senior standing and permission of the instructor.	Satisfies: a university graduation requirement'senior capstone. Note: course fee is to be determined.	Su18

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 161 or 380. 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.