

College of Science, Technology, Engineering, and Mathematics

Environmental Science BS

(111-116 credits)

Why study Environmental Science; Env Chemistry Option

Environmental scientists focus on the environment and environmental problems facing the world by examining relationships between humans and their surroundings, both natural and man-made. Through a series of academic courses with extensive field, lab and research experience, students will learn how human activity impacts the environment and will obtain the critical thinking and problem-solving skills necessary to productively contribute to solutions. The Environmental Science degree is interdisciplinary. All

students take a core of Environmental Science courses complemented by a concentration in one of the three core sciences (biology, chemistry, and geology).

Other Degree Options

Minor in Environmental Science

Career Opportunities

Environmental Consulting, Industry, Local, state and federal government agencies, Park Ranger



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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	Q1	Q2	Q3
	CHEM 151 (5 cr.)	CHEM 152 (5 cr.)	CHEM 153 (5 cr.)
	GEOL 120 (5 cr.)	ENGL 101 (5 cr.)	ENGL 201 (5 cr.)
	MATH 142 (5 cr.)	GEOL 121 (5 cr.)	ENVS 100 (5 cr.)
Second Year	Q5	Q6	Q7
	Diversity (any one) (5 cr.)	BIOL 172 (5 cr.)	BACR (5 cr.)
	General Elective (5 cr.)	BIOL 270 (3 cr.)	DSCI 245 (4 cr.)* or MATH 38
	CHEM 304 (6 cr.)	DSCI 346 (4 cr.)* or MATH 38	
	GEOG 323 (3 cr.)		
Third Year	Q9	Q10	Q11
	BIOL 173 (5 cr.)	BACR (5 cr.)	[CHEM 353 (3 cr.)* & 373 (3
	CHEM 316 (5 cr.)	BIOL 440 (4 cr.)	GEOL 320 (4 cr.)* or 380 (5 c
	ECON 100 (5 cr.)	CHEM 351 (4 cr.)	CHEM 352 (4 cr.)
		CHEM 372 (3 cr.)	
Fourth Year	Q13	Q14	Q15
	General Elective (5 cr.)	General Elective (5 cr.)	BACR (5 cr.)
	General Elective (5 cr.)	CHEM 491 (5 cr.)	Global (5 cr.)
	PLAN 431 (3 cr.)	ENVS 400 (1 cr.)	Upper Div Elective (5 cr.)
	GEOL 470 (4 cr.)		

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

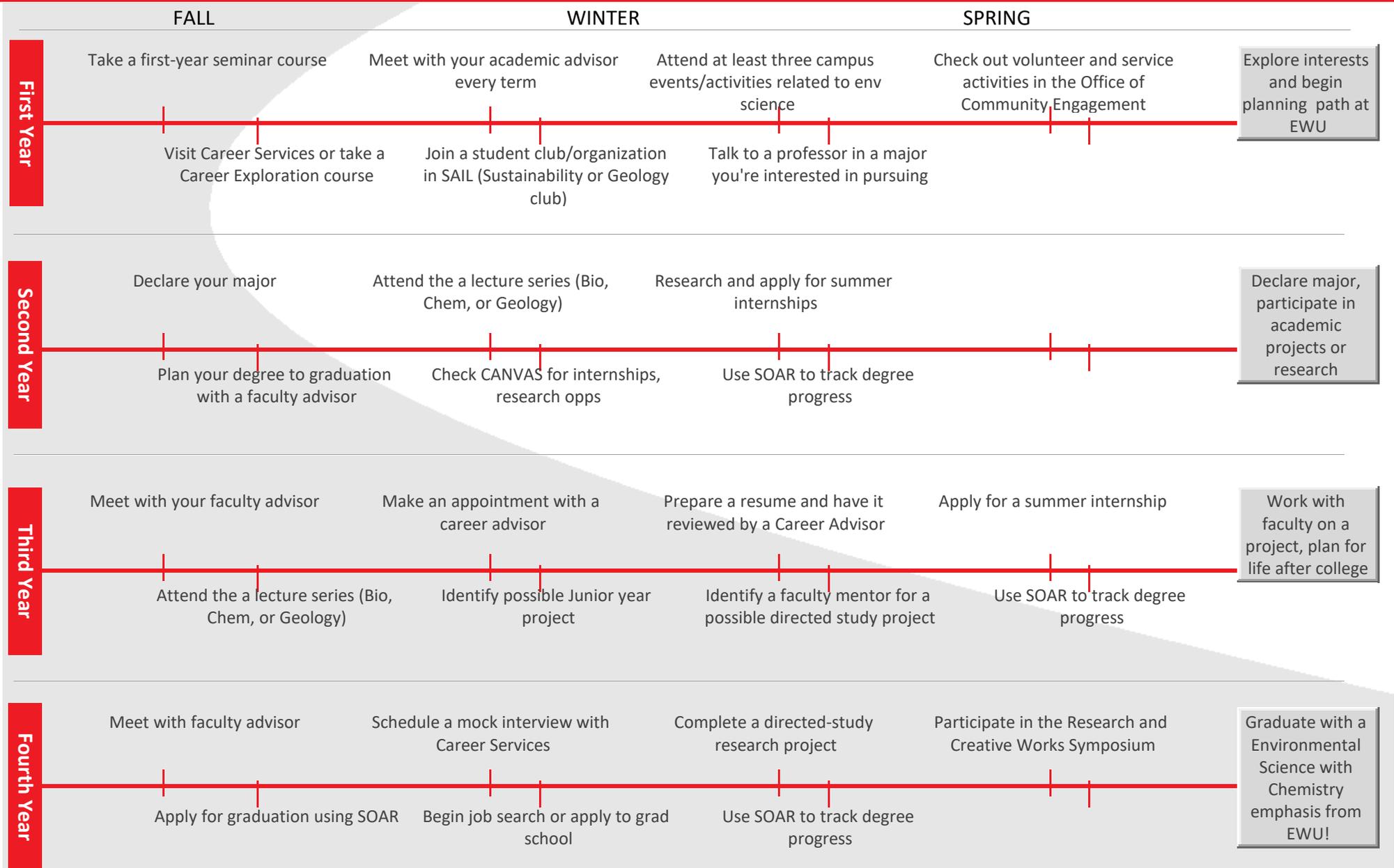


Flight Plan to Success

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

Environmental Science, BS

College of Science, Technology, Engineering, and Mathematics
Environmental Science/Chemistry Option



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



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Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Envi Sci | SOAR Major: ENSC ENCM

Bachelor of Science in Environmental Science
 Environmental Chemistry option
 2018-2019 Catalog Year

Major Declaration Form: Environmental Science - Environmental Chemistry, BS-ENVS, ENCM

Math proficiency needed: MATH 142

First year courses and prerequisites	Notes	Previously offered **
Q1 CHEM 151 GENERAL CHEMISTRY (5 cr.) Prerequisites: \geq C in MATH 141 or concurrent enrollment; \geq C in CHEM 100 or \geq 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
Q1 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
Q1 MATH 142 PRECALCULUS MATH II (5 cr.) Prerequisite: MATH 141 or equivalent.	Satisfies: completion of this course with a grade \geq C satisfies the university proficiencies in mathematics.	F17, W18, Sp18, Su18
Q2 CHEM 152 GENERAL CHEMISTRY (5 cr.) Prerequisites: \geq C- in CHEM 151, or instructors permission, and a \geq C in MATH 141.	Satisfies: a BACR for natural sciences. Note: laboratory work includes quantitative and qualitative analysis.	F17, W18, Sp18, Su18
Q2 ENGL 101 COLL COMP: EXPOSITN & ARGUMNT (5 cr.) Prerequisite: Writing Placement Test or General Advising.	Satisfies: university competencies, writing.	F17, W18, Sp18, Su18
Q2 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
Q3 CHEM 153 GENERAL CHEMISTRY (5 cr.) Prerequisites: \geq C- in CHEM 152 or permission of instructor.		F17, W18, Sp18, Su18
Q3 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
Q3 ENVS 100 INTRO TO ENVIRONMENTAL SCIENCE (5 cr.) Prerequisites: MTHD 104.	Satisfies: a BACR for natural sciences. Note: this course includes a weekly laboratory that uses basic quantitative techniques for collecting and analyzing data from environmental systems.	F17, 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 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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* See the catalog for prerequisites and other details.

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Second year courses and prerequisites	Notes	Previously offered **
Q5 Diversity (any one) (5 cr.)		
Q5 General Elective (5 cr.)		
Q5 BIOL 171 BIOLOGY I (5 cr.) Prerequisites: concurrent enrollment in MATH 141 or completion of MATH 141 with $\geq C$; students must receive $\geq C$ - to enroll in BIOL 172 and $\geq C$ to enroll in BIOL 270.	Satisfies: a BACR for natural science. Note: course fee.	F17, W18, Sp18
Q6 BIOL 172 BIOLOGY II (5 cr.) Prerequisite: $\geq C$ - in BIOL 171 and $\geq C$ in MATH 141.	Satisfies: 2nd Natural Sciences BACR if BIOL 171 and BIOL 270 are complete or BIOL 172 and BIOL 270 are completed. Note: course fee.	F17, W18, Sp18
Q6 BIOL 270 BIOLOGICAL INVESTIGATION (3 cr.) Prerequisite: $\geq C$ in BIOL 171 or BIOL 172.	Note: the completion of BIOL 171 and BIOL 270 satisfies a BACR for natural sciences; the completion of BIOL 171, BIOL 172 and BIOL 270 satisfies a second BACR for natural sciences.	F17, W18, Sp18, Su18
Q6 CHEM 304 QUANTITATIVE ANALYSIS (6 cr.) Prerequisite: CHEM 153.		F17, W18
Q6 GEOG 323 GIS FOR ENVIRONMENTAL SCIENCES (3 cr.)	Note: includes hands-on GIS work in the lab.	W18
Q7 BACR (5 cr.)		
Q7 DSCI 245 (4 cr.)* or MATH 380 or BIOL 380 (5 cr.)		
Q7 DSCI 346 (4 cr.)* or MATH 380 or BIOL 380 or MATH 161 (5 cr.)		

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Third year courses and prerequisites	Notes	Previously offered **
Q9 BIOL 173 BIOLOGY III (5 cr.) Prerequisite: ≥C- in BIOL 171 and ≥C in BIOL 172.	Note: course fee.	W18, Sp18, Su18
Q9 CHEM 316 ENVIRONMENTAL CHEMISTRY (5 cr.) Prerequisites: CHEM 151, CHEM 152, CHEM 153 or CHEM 161, CHEM 162, CHEM 163.		
Q9 ECON 100 GENERAL EDUCATION ECONOMICS (5 cr.)	Satisfies: a BACR for social sciences.	F17, W18, Sp18, Su18
Q9 ENVS 300 ENVS SCIENCE JUNIOR SEM (1 cr.) Prerequisite: ENVS 100 and admission to the Environmental Science program.		F17
Q10 BACR (5 cr.)		
Q10 BIOL 440 ECOLOGY (4 cr.) Prerequisites: ≥C- in BIOL 171, ≥C in BIOL 172, BIOL 173, BIOL 270; MATH 161 or MATH 380 or BIOL 380; or permission of instructor.		F17, Sp18
Q10 CHEM 351 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 153.		F17, W18
Q11 [CHEM 353 (3 cr.)* & 373 (3 cr. *) or CHEM 480 (5 cr.)		
Q11 GEOL 320 (4 cr.)* or 380 (5 cr.)	GEOL 380 will not be taught in near future. Take 320.	
Q11 CHEM 352 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 351.		W18, Sp18
Q11 CHEM 372 ORGANIC CHEM LAB I (3 cr.) Prerequisite: CHEM 351.		W18, Sp18

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Fourth year courses and prerequisites	Notes	Previously offered **
Q13 General Elective (5 cr.)		
Q13 General Elective (5 cr.)		
Q13 PLAN 431 ENVIRON IMPACT STATEMENTS (3 cr.)		F17
Q14 General Elective (5 cr.)		
Q14 CHEM 491 SENIOR THESIS (5 cr.) Prerequisite: senior standing.	Satisfies: a university graduation requirement's senior capstone.	F17, W18, Sp18, Su18
Q14 ENVS 400 ENVS SENIOR SEMINAR (1 cr.) Prerequisite: ENVS 300 and junior or senior standing.		W18
Q14 GEOL 470 HYDROGEOLOGY (4 cr.) Prerequisites: GEOL 120 or GEOL 121, MATH 142, or permission of the instructor.		W18
Q15 BACR (5 cr.)		
Q15 Global (5 cr.)		
Q15 Upper Div Elective (5 cr.)		

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