

Environmental Science Major – Bachelor of Science (B.S.) Degree

The interdisciplinary B.S. in Environmental Science requires year-long classes in Geography, Biology, Chemistry, & Physics plus Math, Statistics, electives, & two minors including one in Biology or E-Chem.

1. University Common Curriculum (44 quarter hours)		<u>Quarter offered</u>
First Year Seminar	4 qtr hrs	Fall
First Year Writing and Rhetoric	8 qtr hrs	Winter, Spring
Foreign Language	12 qtr hrs	Fall, Winter, Spring
Analytical Inquiry-Society and Culture	8 qtr hrs	Variable
Scientific Inquiry-Society and Culture	8 qtr hrs	Variable
Advanced Seminar	4 qtr hrs	Variable
2. BS ENVI Core (28 quarter hours)		
GEOG 1201, 1202, 1203: Environmental Systems	12 qtr hrs	Fall, Winter, Spring
Or GEOG 1264, 1265, 1266 Global Env. Change	12 qtr hrs	Fall, Winter, Spring
Statistics (GEOG 2000 Or BIOL 2090 Or PSYC 2300)	4 qtr hrs	Fall, Winter, Spring
ENVI 3000: Envi Law (Or GEOG 2401: Human Population)	4 qtr hrs	Fall, Winter, Spring
GEOG 2100 Intro to GIS Or GEOG 3200 Remote Sensing	4 qtr hrs	Fall, Winter, Spring
GEOG 2500: Sustainability and Human Society	4 qtr hrs	Fall, Winter, Spring
GEOG 2990: Prof. Development for Envi Sci Majors (Seniors only)	0 qtr hrs	Spring
3. BS ENVI Electives (17 credit hours): A minimum of 17-quarter hours of 2000- or 3000-level elective courses in GEOG, GEOL, or ENVI must be completed (<i>e.g.</i> , See Appendix I).		
4. BS ENVI Additional Requirements (50 quarter hours)		
BIOL 1011/1021: Evolution Heredity & Biodiversity (+ lab)	5 qtr hrs	Winter
BIOL 1010/1020: Physiological Systems (+ lab)	5 qtr hrs	Spring
BIOL 2010/2011: General Ecology (+ lab)	5 qtr hrs	Fall
CHEM 1010/1240: General Chemistry I (+ lab)	4 qtr hrs	Fall
CHEM 1020/1250: General Chemistry II (+lab)	4 qtr hrs	Winter
CHEM 2240: Introduction to Environmental Chemistry	4 qtr hrs	Spring
PHYS 1111/1121, 1112/1122, 1113/1123: General Physics (+ lab)	15 qtr hrs	Fall, Winter, Spring
MATH 1951 and 1952: Calculus I and II	8 qtr hrs	Variable

5. Required Minors: In addition to core, electives, and additional requirements, two minors are required for the BS ENVI degree. The first minor must be in either Biological Sciences (**20+ credit hours**) or Environmental Chemistry (**21+ credit hours**). The second minor (**20-24 credit hours**) can be in any discipline except the geography minor (Note, minors in GIS or Sustainability are acceptable). Students are encouraged to work with their advisor to identify a minor that complements their interests and may use credits from the “additional requirements” category toward any minor.

Note: minimum total quarter hours for degree: 183 (75 hours must be upper-level: 2000 or 3000)

Appendix I. BS ENVI Electives (17+ quarter hours) Students must complete a minimum of 17-quarter hours of elective courses at the 2000- or 3000-level. Additional ENVI elective courses that are not listed here may also count towards elective credits. Grades must be C- or above.

GEOG 2030	Field Methods+	GEOG 3510	Biogeography *
GEOG 2401	The Human Population #	GEOG 3520	Geography of Soils *
GEOG 2410	Economic Geography *	GEOG 3560	Fluvial Geomorphology *
GEOG 2420	Geography of Tourism *	GEOG 3600	Meteorology *
GEOG 2430	World Cities +	GEOG 3610	Climatology *
GEOG 2500	Sustainability and Human Society #	GEOG 3630	Dendroclimatology *
GEOG 2550	Current Issues in Sustainability #	GEOG 3720	Mountain Environments & Sustainability *
GEOG 2700	Contemporary Environmental Issues #	GEOG 3750	Topics in Human/Environment Interactions +
GEOG 2750	Paleoenvironmental Field Methods #	GEOG 3755	Geography of Health #
GEOG 2810	Geography of Latin America *	GEOG 3800	Geography of Colorado *
GEOG 2850	Geography of Europe +	GEOG 3830	Natural Resource Analysis & Planning +
GEOG 3000	Advanced Geographic Statistics #	GEOG 3870	Water Resources and Sustainability *
GEOG 3120	Environmental/GIS Modeling #	GEOG 3890	Ecological Economics *
GEOG 3170	LiDAR: Theory & Applications #	GEOG 3920	Remote Sensing Seminar +
GEOG 3230	Advanced Remote Sensing #	GEOG 3955	Pollen Analysis Seminar *
GEOG 3300	Cultural Geography +		<u>ENVI and GEOL courses</u>
GEOG 3310	Culture/Nature/Econ-Human Ecology #	ENVI 2660	Natural History – Sonora & Baja #
GEOG 3340	Geographies of Migration +	ENVI 3550	Environmental Issues – Colorado +
GEOG 3350	Qualitative Methods in Geography *	GEOL 2020	Historical Geology *
GEOG 3400	Urban Landscapes #	GEOL 2400	Geology and Ecology of the SW #
GEOG 3410	Urban Applications of GIS *	GEOL 2800	Geology of National Parks +
GEOG 3420	Urban & Regional Planning #	GEOL 3010	Process Geomorphology (GEOG 3910) *
GEOG 3425	Urban Sustainability *	GEOL 3100	Environmental Geology *
GEOG 3440	Urban Transportation Planning *	GEOL 3520	Erosion Process and Management +
GEOG 3445	Sustainability and Transportation *	GEOL 3540	Hydrology *
GEOG 3500	Reconstructing Quaternary Environments*		

= offered every year * = offered every other year += offered occasionally

Suggested Academic Plan

Year 1: Fall Quarter	Year 1: Winter Quarter	Year 1: Spring Quarter
Environmental Systems I Foreign Language 1 First Year Seminar Common Curriculum Class	Environmental Systems II Foreign Language 2 First Year Writing and Rhetoric (WRIT) Evolution Heredity & Biodiversity	Environmental Systems III Foreign Language 3 First Year Writing and Rhetoric (WRIT) Physiological Systems
Year 2: Fall Quarter	Year 2: Winter Quarter	Year 2: Spring Quarter
General Ecology General Chemistry I Major Elective Class Common Curriculum Class	ENVI Core course General Chemistry II Contemporary Environmental Issues Common Curriculum Class	ENVI Core course Environmental Chemistry Common Curriculum Class Minor Elective course
Year 3: Fall Quarter	Year 3: Winter Quarter	Year 3: Spring Quarter
Study Abroad or Field Quarter	Calculus I Major Elective courses Major Elective course Minor Elective course	Calculus 2 Major Elective course Statistics Major Elective courses
Year 4: Fall Quarter	Year 4: Winter Quarter	Year 4: Spring Quarter
Major Electives courses Physics I Advanced Seminar/Common Curriculum Minor Elective course	Major Elective courses Physics II Minor Elective course Minor Elective course	Major Electives courses Physics III Minor Elective course Minor Elective course