



Environmental Science Major – Bachelor of Arts (B.A.) Degree

The interdisciplinary B.A. in Environmental Science requires year-long core classes in Environmental Science, Biology, and Chemistry, in addition to one statistics class and eight elective classes.

1. University Common Curriculum (48 quarter hours)

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-Natural/Physical World (MATH 1200 or 1951)	4 qtr hrs	Variable
Analytical Inquiry-Society and Culture	8 qtr hrs	Variable
Scientific Inquiry-Society and Culture	8 qtr hrs	Variable
Advanced Seminar	4 qtr hrs	Variable

Quarter offered

2. Environmental Science Core (43 quarter hours)

GEOG 1201, 1202, 1203: Environmental Systems	12 qtr hrs	Fall, Winter, Spring
BIOL 1011/1021: Evolution Heredity & Biodiversity	5 qtr hrs	Winter
BIOL 2050/2051: Conservation Biology	5 qtr hrs	Spring
BIOL 2010/2011: General Ecology	5 qtr hrs	Fall
CHEM 1010/1240: General Chemistry (+ lab)	4 qtr hrs	Fall
CHEM 2451/2461: Organic Chemistry (+ lab)	4 qtr hrs	Winter
CHEM 2240: Introduction to Environmental Chemistry	4 qtr hrs	Spring
Statistics (GEOG 2000, BIOL 2090, or PSYC 2300)	4 qtr hrs	Spring

3. Environmental Science Electives (32+ quarter hours). A minimum of 32 quarter hours from the following list of courses, including 12 hours in BIOL AND 12 hours in GEOG, GEOL, or ENVI. Other BIOL, GEOG, GEOL, ENVI classes not listed here may count for elective credit. No more than 5 quarter hours taken as Independent Study or Independent Research will be counted toward the minimum hours required in the major.

BIOL 2310	Biodiversity of Flowering Plants	BIOL 3060	Tropical Ecology
BIOL 2510	General Genetics	BIOL 3070	Ecological Field Methods
BIOL 2610	Vertebrate Zoology	BIOL 3095	Global Change Ecology
BIOL 3020	Aquatic Ecology	BIOL 3110	Plant Taxonomy
BIOL 3030	Alpine Ecology	BIOL 3400	Ornithology
BIOL 3035	Invasive Species Ecology	BIOL 3410	Animal Behavior
BIOL 3044	Coral Reef Ecology	BIOL 3700	Advanced Topics in Ecology
BIOL 3055	Ecology of the Rockies	BIOL 3707	Topics in Conservation Biology: Ethnobotany
GEOG 2010	Digital Earth #	GEOG 3420	Urban & Regional Planning #
GEOG 2020	Computer Assisted Cartography #	GEOG 3425	Urban Sustainability *
GEOG 2100	Introduction to GIS #	GEOG 3440	Urban Transportation Planning *
GEOG 2410	Economic Geography *	GEOG 3445	Sustainability and Transportation *
GEOG 2420	Geography of Tourism *	GEOG 3500	Reconstructing Quaternary Environments *
GEOG 2500	Sustainability and Human Society #	GEOG 3510	Biogeography *
GEOG 2550	Current Issues in Sustainability #	GEOG 3520	Geography of Soils *
GEOG 2700	Contemporary Environmental Issues #	GEOG 3560	Fluvial Geomorphology *
GEOG 3000	Advanced Geographic Statistics #	GEOG 3600	Meteorology *
GEOG 3010	Geographic Information Analysis *	GEOG 3610	Climatology *
GEOG 3100	Geospatial Data *	GEOG 3630	Dendroclimatology *
GEOG 3130	Advanced GIS *	GEOG 3720	Mountain Environments *
GEOG 3140	GIS Database Design #	GEOG 3800	Geography of Colorado *
GEOG 3200	Remote Sensing	GEOG 3830	Natural Resource Analysis & Planning +
GEOG 3230	Advanced Remote Sensing *	GEOG 3870	Water Resources and Sustainability *
GEOG 3310	Cult/Nature/Econ/Human Ecology #	GEOG 3890	Ecological Economics *
GEOG 3400	Urban Landscapes #	GEOG 3955	Pollen Analysis Seminar *
GEOG 3410	Urban Applications of GIS *		

= offered every year

* = offered every other year

+ = offered occasionally

Over for GEOL, ENVI, and CHEM elective classes

GEOL 2020 Historical Geology
 GEOL 2400 Geology and Ecology of the SW
 GEOL 2800 Geology of National Parks
 GEOL 3010 Process Geomorphology (aka GEOG 3910)

GEOL 3100 Environmental Geology
 GEOL 3520 Erosion Process and Management
 GEOL 3540 Groundwater Hydrology (aka GEOG 3530)

ENVI 2660 Natural History – Sonora & Baja
 ENVI 3000 Environmental Law

ENVI 2801 Water Quality of Western Rivers and Streams
 ENVI 3550 Environmental Issues – Colorado

CHEM 2011 Analysis of Equilibrium Systems
 CHEM 3210 Instrumental Analysis
 CHEM 3410 Environmental Chemistry I Atmospheric

CHEM 3411 Environmental Chemistry II: Aquatic
 CHEM 3412 Environmental Chemistry III: Toxicology

4. Minor. Completion of at least 20-quarter hours in a minor field of study. (NOTE: Because of the 60-hour rule – explained below – it may be impossible to minor in Geography, Geology, GIS, or Sustainability)

5. Minimum total quarter hours for degree: 183 (75 hours must be upper-level: 2000 or 3000).

6. Suggested Academic Plan (Environmental Science Core Requirements are **bolded**)

Year 1: Fall Quarter	Year 1: Winter Quarter	Year 1: Spring Quarter
Environmental Systems part 1 First Year Seminar (FSEM) Common Curriculum Class Foreign Language 1	Environmental Systems part 2 First Year Writing/Rhetoric (WRIT) Evolution Heredity & Biodiversity Foreign Language 2	Environmental Systems part 3 First Year Writing/Rhetoric (WRIT) Foreign Language 3 Common Curriculum Class
Year 2: Fall Quarter	Year 2: Winter Quarter	Year 2: Spring Quarter
General Ecology General Chemistry Major course Common Curriculum Class	Common Curriculum Class Organic Chemistry Major course or MATH Common Curriculum Class	Conservation Biology Environmental Chemistry Statistics Major course or MATH
Year 3: Fall Quarter	Year 3: Winter Quarter	Year 3: Spring Quarter
Study Abroad	Major courses Minor/elective courses	Major courses Minor/elective course
Year 4: Fall Quarter	Year 4: Winter Quarter	Year 4: Spring Quarter
Field Quarter	Major courses Minor/elective courses Advanced Seminar/Common Curriculum	Major courses Minor/elective courses Advanced Seminar/Common Curriculum