



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

1. University Common Curriculum (44 quarter hours)

	4	8	12	8	8	4	<u>Quarter offered</u>
First Year Seminar	qtr hrs						Fall
First Year Writing and Rhetoric		qtr hrs					Winter, Spring
Foreign Language			qtr hrs				Fall, Winter, Spring
Analytical Inquiry-Society and Culture				qtr hrs			Variable
Scientific Inquiry-Society and Culture					qtr hrs		Variable
Advanced Seminar						qtr hrs	Variable

2. Bachelor of Science Core (74 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 1010/120: 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
PHYS 1111 (1121), 1112 (1122), 1113 (1123): General Physics	15	qtr hrs					Fall, Winter, Spring
Statistics (GEOG 2000, BIOL 2090, or PSYC 2300)	4	qtr hrs					Variable
MATH 1951 and 1952: Calculus I and II	8	qtr hrs					Variable
ENVI 3000: Environmental Law	4	qtr hrs					Spring
GEOG 2700: Contemporary Environmental Issues	4	qtr hrs					Variable

3. Bachelor of Science Electives (28+ quarter hours). A minimum of 28 quarter hours from the following list of courses, including 12 hours each in BIOL and GEOG/GEOL/ENVI. 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 3044	Coral Reef Ecology
BIOL 2510	General Genetics	BIOL 3070	Ecological Field Methods
BIOL 2610	Vertebrate Zoology	BIOL 3110	Plant Taxonomy
BIOL 3020	Aquatic Ecology	BIOL 3400	Ornithology
BIOL 3030	Alpine Ecology	BIOL 3410	Animal Behavior
BIOL 3055	Ecology of the Rockies	BIOL 3700	Advanced Topics in Ecology
BIOL 3060	Tropical Ecology	BIOL 3707	Topics in Conservation Biology: Ethnobotany
GEOG 2010	Digital Earth #	GEOG 3410	Urban Applications of GIS *
GEOG 2020	Computer Assisted Cartography #	GEOG 3420	Urban & Regional Planning #
GEOG 2100	Introduction to GIS #	GEOG 3425	Urban Sustainability *
GEOG 2410	Economic Geography *	GEOG 3440	Urban Transportation Planning *
GEOG 2420	Geography of Tourism *	GEOG 3445	Sustainability and Transportation *
GEOG 2500	Sustainability and Human Society #	GEOG 3500	Reconstructing Quaternary Environments *
GEOG 2550	Current Issues in Sustainability #	GEOG 3510	Biogeography *
GEOG 3000	Advanced Geographic Statistics #	GEOG 3520	Geography of Soils *
GEOG 3010	Spatial Statistics *	GEOG 3560	Fluvial Geomorphology *
GEOG 3030	Field Methods +	GEOG 3600	Meteorology *
GEOG 3100	Geospatial Data *	GEOG 3610	Climatology *
GEOG 3130	Advanced GIS *	GEOG 3630	Dendroclimatology *
GEOG 3140	GIS Database Design #	GEOG 3720	Mountain Environments *
GEOG 3200	Remote Sensing	GEOG 3800	Geography of Colorado *
GEOG 3230	Advanced Remote Sensing *	GEOG 3830	Natural Resource Analysis & Planning +
GEOG 3310	Cult/Nature/Econ/Human Ecology #	GEOG 3870	Water Resources and Sustainability *
GEOG 3400	Urban Landscapes #	GEOG 3890	Ecological Economics *
		GEOG 3955	Pollen Analysis Seminar *

= offered every year

* = offered every other year

+ = offered occasionally

Over for GEOL, ENVI, and CHEM elective classes

Revised 05/31/2013



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

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 3270 Environmental Impact Assessment	ENVI 2801 Water Quality of Western Rivers and Streams ENVI 3550 Environmental Issues – Colorado
CHEM 2040 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

NOTE: A minor is NOT required for the B.S. degree.

5. Total hours for degree: 183

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

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) Conservation Biology
Year 2: Fall Quarter	Year 2: Winter Quarter	Year 2: Spring Quarter
General Ecology General Chemistry Major Elective Class Common Curriculum Class	Major Elective Class Organic Chemistry Contemporary Environmental Issues Common Curriculum Class	Major Elective course Environmental Chemistry Common Curriculum Class
Year 3: Fall Quarter	Year 3: Winter Quarter	Year 3: Spring Quarter
Study Abroad or Field Quarter	Calculus I Major Elective courses Biology Elective course	Calculus 2 Environmental Law 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	Major Elective courses Physics II Biology Elective course	Major Electives courses Physics III Biology Elective course