



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

1. University Common Curriculum (48 quarter hours)

| | 4 | 8 | 12 | 4 | 8 | 8 | 4 | <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-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 |

2. Environmental Science Core (43 quarter hours)

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|--|----|-----|-----|--|--|--|--|----------------------|
| 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 | | | | | Variable |

3. Environmental Science Electives (32+ quarter hours). A minimum of 32 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 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 | Spatial Statistics * | 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

Revised 05/31/2013



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| | |
|---|---|
| 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 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 |

4. **Minor.** Completion of 20 quarter hours in a minor field of study.

5. **Total hours for degree: 183**

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 |