Bachelor of Science: Environmental Science (878)
Environmental Life Science Track
2019-2020
65 hours

The B.S. Environmental Science major will include two curricular paths for students, one with a life science emphasis and the other with an earth science emphasis. The program will enable students to prepare for a graduate program in the environmental sciences or to directly enter industry in the public or private sector. All students will have a common core of courses providing a foundation in biology and geosciences, and will also be required to take part in a capstone research project.

**Required Core:**

___ BIOL 2051 General Biology: Organismal Diversity, 4 hrs
___ BIOL 2052 General Biology: Cell Structure and Function, 4 hrs
___ BIOL 3100 Evolution, Ecology & the Nature of Science, 3 hrs
___ BIOL 3140 Genetics, 4 hrs

**Required Chemistry**

___ CHEM 1110 General Chemistry I, 4 hrs
___ CHEM 1120 General Chemistry II, 4 hrs

**Required Earth Science & Geography**

____ EARTHSCI 1200 Elements of Weather, 3 hrs
____ EARTHSCI 1300 Introduction to Geology, 4 hrs
____ GEOG 3310 Geographic Info Systems, 3 hrs

**Required Math**

___ MATH 1420 Calculus I, 4 hrs

**Required Biology**

___ BIOL 4157 Biostatistics, 3 hrs
___ BIOL 3190 Undergraduate Research, 2 hrs
___ BIOL 4168 Ecology, 4 hrs

**Major Elective Credits**

(26 hours)

Pick courses from each of the 3 categories (A, B & C) to accumulate 26 hours

**CATEGORY A:**

___ BIOL 4105 Wildlife Ecology & Management, 4 hrs
___ BIOL 4108 Biodiversity Conservation Policy, 3 hrs

___ BIOL 4167 Conservation Biology, 3 hrs

**CATEGORY B: (select a minimum of 2 courses)**

___ BIOL 3112, Invertebrate Zoology, 4 hrs
___ BIOL 3120, Plant Diversity & Evolution, 4 hrs
___ BIOL 3170, Entomology, 3 hrs
___ BIOL 4154, Aquatic Ecology, 3 hrs
___ BIOL 4164, Mammalogy, 4 hrs
___ BIOL 4166, Plant Systematics, 4 hrs
___ BIOL 4180, Restoration Ecology, 4 hrs

**CATEGORY C: (select a minimum of 2 courses)**

___ CHEM 2040, Applied Organic & Biochemistry, 4 hrs OR
___ CHEM 2210, Organic Chemistry I, 3 hrs
___ EARTHSCI 1320 Earth History, 4 hrs
___ MATH 142,1 Calculus II, 4 hrs
___ EARTHSCI 3210, Meteorology, 4 hrs
___ EARTHSCI 3230, Air Quality, 4 hrs
___ EARTHSCI 3310, Structural Geology, 4 hrs
___ EARTHSCI 3325, Sedimentary Geology, 4 hrs
___ EARTHSCI 3330, Geomorphology, 4 hrs
___ EARTHSCI 3340, Oceanography, 3 hrs
___ EARTHSCI 3345, Environmental Geology, 3 hrs
___ EARTHSCI 3350, Environmental Hydrology, 3 hrs
___ EARTHSCI 3355, Hydrogeology, 3 hrs
___ EARTHSCI 3360, Field & Lab Methods in Hydrology, 3 hrs
___ GEOG 2210, Recent Climate Change, 3 hrs
___ GEOG 3220, Environmental Geography, 3 hrs
___ GEOG 4220, Soils & Landscape, 3 hrs
___ GEOG 4230, Rivers, 3 hrs
___ GEOG 4320, Geographic Info Systems II, 3 hrs
NOTES:

- Must have a UNI cumulative and a UNI major/Plan GPA of 2.50 or higher, with a grade of C- (1.67) or higher in all courses that are applied to the major.

- A minimum of 7 credits of 4000 biology electives required. BIOL4198 Independent Study and CHEM4510 Biochemistry do not count toward 4000 level biology elective requirement. At least 4 credits of 4000 level biology electives need to be taken at UNI.

- BIOL 3101 Anatomy & Physiology I counts as an university elective not as a biology major elective

- Cannot count more than a combined 4 credits to biology electives requirement.
  - BIOL 3185 Readings in Biology
  - BIOL 3190 Undergraduate Research
  - BIOL 4198 Independent Study

- If *CHEM 1130 General Chemistry I-II, 5 hrs, is taken, then 3 additional biology electives are required to reach a 68 credit major.

- Courses noted with * indicate additional pre-requisites may be needed before taking the course.