Bachelor of Science: Environmental Science (878)
Environmental Life Science Track
2021-2022
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 3100 Evolution, Ecology & the Nature of Science, 3 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
- BIOL 4180, Restoration Ecology, 4 hrs

**CATEGORY B: (select a minimum of 2 courses)**
- BIOL 3112, Invertebrate Zoology, 4 hrs
- BIOL 3120, Plant Diversity & Evolution, 4 hrs
- BIOL 3151, General Microbiology, 4 hrs
- BIOL 3170, Entomology, 3 hrs
- BIOL 4154, Aquatic Ecology, 3 hrs
- BIOL 4164, Mammalogy, 4 hrs
- BIOL 4166, Plant Systematics, 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, Geographic Info Systems II, 3 hrs
- GEOG 4240, Reconstructing Ice Age Environments, 3 hrs*
- GEOG 4370, Remote Sensing of the Environment, 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.
- 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 (or other electives approved by the Biology Department Head) are required to reach a 68 credit major.
- Courses noted with * indicate additional pre-requisites may be needed before taking the course