Bachelor of Science: Environmental Science
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 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
- **EARTHSCIE 1200** Elements of Weather, 3 hrs
- **EARTHSCIE 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
- **CHEM 2210** Organic Chemistry I, 3 hrs
- **EARTHSCIE 1320** Earth History, 4 hrs
- **MATH 1421** Calculus II, 4 hrs
- **EARTHSCIE 3210** Meteorology, 4 hrs
- **EARTHSCIE 3230** Air Quality, 4 hrs
- **EARTHSCIE 3255** Hydrogeology, 3 hrs
- **EARTHSCIE 3320** Structural Geology, 4 hrs
- **EARTHSCIE 3325** Sedimentary Geology, 4 hrs
- **EARTHSCIE 3330** Geomorphology, 4 hrs
- **EARTHSCIE 3340** Oceanography, 3 hrs
- **EARTHSCIE 3345** Environmental Geology, 3 hrs
- **EARTHSCIE 3350** Environmental Hydrology, 3 hrs
- **EARTHSCIE 3355** Hydrogeology, 3 hrs
- **EARTHSCIE 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
- **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