

Bachelor of Arts: Environmental Resource Management (97L)

Ecosystems Track

2019-2020

58 hours

The Environmental Resource Management major is aimed at students searching for career options in the broadly-defined 'outdoor environment' that are related to natural resources, environmental systems, and sustainable development. This program will prepare students for careers in the environmental and human management of public and private spaces across differing categories of environmental systems - from public parks and lands to conservancy units managed by governmental and other non-profit agencies and organizations. This program aims to serve those students who do not wish to pursue careers as environmental scientists *per se* from more tightly focused 'environmental science' programs.

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 1300 Introduction to Geology, 4 hrs
- OR**
- ___GEOG 1210 and 1211 Physical Geography and Lab, 4 hrs
- ___GEOG 3310 Geographic Info Systems, 3 hrs
- ___EARTHSCI 3330 Geomorphology, 4 hrs
- ___GEOG 4260 Environmental Resource Management, 3 hrs
- ___LYHS 4320 Financial Resource Management in Leisure, Youth and Human Services, 3 hrs*
- ___HISUS4170 U.S. Environmental History, 3 hrs

Required Math

- ___MATH 1140 Pre-Calculus I, 4 hrs

Required Biology

- ___BIOL 4168 Ecology, 4 hrs

Major Elective Credits

(20 hours)

Pick courses from each of the 3 categories (A, B & C) to accumulate 20 hours. A minimum of one course must be taken in each category.

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:

- ___BIOL 3112, Invertebrate Zoology, 4 hrs
- ___BIOL 3118, Marine Biology, 3 hrs
- ___BIOL 3120, Plant Diversity & Evolution, 4 hrs
- ___BIOL 3170, Entomology, 3 hrs
- ___BIOL 4154, Aquatic Ecology, 3 hrs
- ___BIOL 4157 Biostatistics, 3 hrs
- ___BIOL 4164, Mammalogy, 4 hrs
- ___BIOL 4166, Plant Systematics, 4 hrs
- ___GEOG 4310, GIS Applications, 3 hrs
- ___GEOG 4320, Geographic Info Systems II, 3 hrs

CATEGORY C:

- ___EARTHSCI1200 Elements of Weather, 3 hrs
- ___ENGLISH 4785, Applied Writing: Projects, Grants & Careers, 3 hrs*
- ___GEOG 2210, Recent Climate Change, 3 hrs
- ___GEOG 3220, Environmental Geography, 3 hrs*
- ___GEOG 3230, Natural Regions of North America, 3 hrs
- ___GEOG 4210, Climatology, 3 hrs
- ___GEOG 4220, Soils & Landscape, 3 hrs
- ___GEOG 4240, Reconstructing Ice Age Environments, 3 hrs*
- ___GEOG 4250, Lab Methods in Environmental Geography, 3 hrs
- ___GEOG 4370, Remote Sensing of the Environment, 3 hrs
- ___LYHS/HISUS 4556, History of Outdoor Recreation, 3 hrs
- ___LYHS 2770, Principles of Tourism, 3 hrs
- ___LYHS 4553, Trends & Issues in Outdoor Recreation, 3 hrs
- ___MGMT 3183, Leadership Skills, 3 hrs*
- ___MGMT 3185, Project Management, 3 hrs*
- ___GEOG 3179, Cooperative Education in Geography, 3 hrs*
- OR** ___BIOL 3179, Cooperative Education
- OR** ___EARTHSCI 3430, Internship
- OR** ___LYHS 4095, Internship
- OR** ___HPE 4768, Field Experience in Health Promotion

NOTES:

*Prerequisites for LYHS 4320 will be waived for students in this track. Contact the head of Leisure, Youth and Human Services

- 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