

ENVIRONMENTAL SCIENCE TRACK –BS

Degree: This track offers a B.S. degree

Perspective: This track offers a broad, interdisciplinary perspective on Earth Environments.

Intended Audience:

The program track is intended for those pursuing a technical (BS) careers and/or graduate school in the sciences.

General Education Program:

Students must complete 4 Tier 1 and 6 Tier 2 Gen Ed courses with at least 2 in each mode of inquiry— The Gen Ed Modes are- Creative Process & Production (CPP); Lang., Lit., and Cultural Studies (LLCS); Scientific and Quantitative Inquiry (SQI); Social and Historical Perspectives (SHP)

Required General Education Courses for this Track (18 cr)

Tier 1

- ___ EESC 120 Water Explorer (3)
- ___ EESC 121 Mapping the City (3)

Tier 2

- ___ EESC 226 Earth 360: Integrated Geography (3)
- ___ EESC 235 Global Climate Change (3)
- ___ EESC 250 Plunder: The Race for Natural Resources (3)

Tier 3

- ___ EESC 3XX Energy, Society and Sustainability (3)

Recommended Elective General Education Courses for this Track-

- ___ PHIL 113 Environmental Ethics (3) (Tier 1)
- ___ POLI 120 Global Challenges (3) (Tier 1)
- ___ ENGL 130 Reading the Environment (3) (Tier 1)
- ___ POLI 217 Globalization and Governance (3) (Tier 2)
- ___ SOCI 230 Cities of Industry (3) (Tier 2)
- ___ PHIL 246 Food, Philosophy and Global Health (3) (Tier 2)
- ___ ART 286 Plotting Global Climate Change: Information Graphics for Sciences (3) (Tier 2)

TRACK REQUIREMENTS

Mathematics (BS) (8 cr):

- ___ MATH 175 Enhanced Precalculus (4)
- ___ MATH 192 Calculus and Analytic Geometry I (4)

Related Natural Science (BS) (30 or 31 cr.):

- ___ BIOL 130 Principles of Biology I (4)

- ___ BIOL 131 Principles of Biology II (4)
- ___ BIOL 332 Field Ecology (4) or BIOL 232 Invertebrate Zoology (4)
- ___ CHEM 105/1105 General Chemistry I & Lab (5)
- ___ CHEM 106/1106 General Chemistry II & Lab (5)
- ___ CHEM 207/2207 Organic Chemistry I & lab (4) OR ___ CHEM 205/2205 Analytical Chemistry & lab (5)
- ___ PHYS 130/1130 College Physics & Recitation/Lab (4)

Environmental Science Core Curriculum (25 credits):

- ___ EESC 135 Our Planet Earth (3) (or EESC 112 Introduction to Geology)
- ___ EESC 201 Environmental Science for All (3) (or EESC 109 Principles of Environmental Science)
- ___ EESC 209 Urban Environmental Issues & Policy (3)
- ___ EESC 221 Essential Methods of Geology (3) (or EESC 2xx Hands on Earth)
- ___ EESC 252 GIS I: Contemporary Applications of GIS (3)
- ___ EESC 340 Hydrology I (3)
- ___ EESC 410 Urban Soil Survey (4)
- ___ EESC 446 Intro to Geochemistry (3)

Environmental Science BS Electives (6 or 7 credits):

Choose any 300+ level EESC courses from the list below. For students getting the GIS-certificate only 1 GIS course will count towards the major elective:

- ___ EESC 336 Field Methods (4)
- ___ EESC 348 Environmental Geology (3)
- ___ EESC 349 Introduction to Hazmat Field Techniques (4)
- ___ EESC 350 GIS II: Contemp Analysis w/GIS (3)
- ___ EESC 434 Earth Surface Processes (4)
- ___ EESC 437 Environmental Health (3)
- ___ EESC 447 Intro to Geophysics (3)
- ___ EESC 455 GIS III: Modeling with GIS (3)