

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 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)

Recommended Elective General Education Courses for this Track-

- ___ ART 145 Websites for Everyone (3) (Tier 1) (CPP)
- ___ ART 286 Infographics for the Sciences (3) (Tier 2) (CCP)
- ___ BIOL 240 Scientific Communication (3) (Tier 2) (LLCS &SQI)
- ___ ECON 115 Money and Markets (3) (Tier 1) (SHP)
- ___ EESC 220 Geographies of Immigration (3) (Tier 2) (SHP) **or**
- ___ *EESC 226 Earth 360: Integrated Geography (3) (Tier 2) (SQI)*
- ___ SOCI 230 Cities of Industry (3) (Tier 2) (SHP) **or**
- ___ *SOCI 237 Refugees and Forced Migrations (3) (Tier 2) (SHP)*

Required General Education Courses for this Track (18 cr)

Tier 1 (9 credits)

- ___ EESC 121 Mapping the City (3) (Tier 1) (SQI)
- ___ ENGL 130 Reading the Environment (3) (Tier 1) (LLCS & SHP)
- ___ PHIL 113 Environmental Ethics (3) (Tier 1) (LLCS)

Tier 2 (6 credits)

- ___ PHIL 246 Food, Philosophy and Global Health (3) (Tier 2) (LLCS & SHP) **or**
- ___ PHIL 245 Social Justice (3) (Tier 2) (SHP)
- ___ POLI 120 Global Challenges (3) (Tier 1) (SHP) **or**
- ___ POLI 217 Globalization and Governance (3) (Tier2) (SHP)

Tier 3 (3 credits)

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

TRACK REQUIREMENTS

Mathematics (BA) (7 credits):

- ___ MATH 140 Statistics (3)
- ___ MATH 192 Calculus I (4)

Related Natural Science (BA) (30 or 31 credits):

- ___ BIOL 130 Principles of Biology I (4)
- ___ BIOL 131 Principles of Biology II (4)

- ___ BIOL 332 Field Ecology (4)
- ___ CHEM 105/1105 General Chemistry I & Lab (5)
- ___ CHEM 106/1106 General Chemistry II & Lab (5)
- ___ CHEM 207/2207 Organic Chem I &lab (4) **OR** ___ CHEM 205/2205 Analytical Chemistry & lab (5)
- ___ PHYS 130 College Physics & Recitation/Lab (4)

Environmental Science Core Curriculum (26 credits):

- ___ EESC 109 Principles of Environmental Science (3)
- ___ EESC 209 Environmental Issues and Policy (3)
- ___ EESC 112 Intro to Geology (3)
- ___ EESC 221 Essential Methods of Geology (3)
- ___ EESC 349 Introduction to Hazmat Field Techniques (4)
- ___ EESC 348 Environmental Geology (3) or ___ EESC 446 Intro to Geochemistry (3)
- ___ EESC 340 Hydrology (3)
- ___ EESC 410 Urban Soil Survey (4) or ___ EESC 434 Earth Surface Processes (4)

Environmental Science BA Electives (6 or 7 credits):

Choose any 300+ level EESC 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 350 Analysis with GIS (3)
- ___ EESC 437 Environmental Health (3)
- ___ EESC 348 Environmental Geology (3)
- ___ EESC 446 Introduction to Geochemistry (3)
- ___ EESC 447 Introduction to Geophysics (4)
- ___ EESC 455 Modeling with GIS (3)
- ___ EESC 434 Earth Surface Processes (4)
- ___ EESC 410 Urban Soil Survey (4)

- ___^T EESC 211 Geology of the Bahamas (3)
- ___^T EESC 503 Field Studies in Geoscience (3)
- ___^T EESC 540 Geology of NJ (3)
- ___^T EESC 550 Geology of National Parks (4)

^T students may choose one course from this group