Environmental Science, B.S.

General Education
(see General Education Requirements for list of approved courses)

Rhetoric and Composition: (6 hours)
- Two approved courses in rhetoric and composition

Mathematics: (3 hours)
- One approved mathematics course; related course noted below will apply

Statistics: (3 hours)
- MATH 2100 - Introductory Statistics
  Students who have taken Engineering 2220, HHP 4010, Mathematics 3100, 4110, Psychology 2010 or Sociology 2500 and subsequently changed their major to Environmental Science will have satisfied this requirement.

Natural Sciences: (7-8 hours)
- Two approved natural science courses, at least one including a laboratory component

Humanities and Fine Arts: (6 hours)
- Two approved humanities and fine arts courses, one from fine arts and one from either

Cultures and Civilizations: (9 hours total)
- Option A: Western Humanities I and II and one approved Non-Western Cultures and Civilizations course or
- Option B: World Civilization I, II, III

Behavioral and Social Sciences: (6 hours)
- Two approved behavioral or social science courses

Program Requirements
The following core requirement must be completed by all Environmental Science majors.
- ENGL 2820 - Scientific Writing (required within the first 60 hours) or
- ESC 4995r - Departmental Thesis
  Students who have taken English 2810, 2880 or 2830 and subsequently changed their major to Environmental Science will have satisfied this requirement.

- MATH 1130 - College Algebra and
- MATH 1830 - Calculus for Management, Life, and Social Sciences
  or
- MATH 1710 - Precalculus I
- MATH 1720 - Precalculus II
- MATH 1950 - Calculus with Analytic Geometry I

MATH 1710, 1720, and 1950 are required for the Chemistry, Mathematics and Engineering Science Concentrations

33 hours including:
- ESC 1500 - Introduction to Environmental Science I
- ESC 1510 - Introduction to Environmental Science II
- ESC 4100 - Environmental Law and Agencies
- ESC 4840 - Values and the Environment
- BIOL 3060 - Ecology and
BIOL 3070 - Ecology Laboratory

GEOG 2210 - Maps and Mapping

Three laboratory courses above the 1000 level from either the core or concentration requirements.

Environmental Policy and Planning (select 1 course):
- ESC 4070 - Environmental Conservation
- ESC 4300 - Problems in Environmental Management
- COMM 4100 - Public Communication and Environmental Issues
- ECON 4300 - Environmental Economics

Environmental Resources (select 1 course):
- ESC 2250 - Oceanography
- ESC 2500 - World Resources
- ESC 4380 - Toxicology
- ESC 4400 - Tropical Marine Ecology
- ESC 4520 - Limnology and Reservoir Ecology
- ESC 4540 - Plant Ecology
- ESC 4680 - Introduction to Soil Resources
- BIOL 4620 - Economic Botany
- GEOL 2250 - Oceanography
- GEOL 4360 - Fossil Fuels
- GEOL 4450 - Hydrology

Note: GEOL 4450 is required for all students in the Engineering Science concentration

Environmental Methods (select 1 course):
- ESC 3400 - Environmental Survey Methods
- ESC 3600 - Air and Water Pollution Control
- ESC 4650 - Remote Sensing and Imagery Analysis
- ESC 4660 - Geographic Information Systems
- ENEV 4310 - Survey of Environmental Engineering
- GEOG 4650 - Remote Sensing and Imagery Analysis
- GEOG 4660 - Geographic Information Systems

Senior Experience (minimum 2 credit hours):
- ESC 4800 - Seminar on the Environment
- ESC 4900 - Environmental Science Senior Project
- ESC 4910r - Environmental Science Internship (Specific Agency, etc.)
- ESC 4920 - Advanced Applications of Remote Sensing and Geographic Information Systems
- ESC 4995r - Departmental Thesis
- ESC 4960r - Environmental Field Camp
- ESC 4997r - Research
- ESC 4998r - Individual Studies

Note: ESC 4920 is the Senior Experience required for all students in the Geographic/Cartographic Sciences concentration

Concentrations
Each Environmental Science major must also complete the requirements for one of the following concentrations:
- Environmental Science: Biology
- Environmental Science: Chemistry
- Environmental Science: Engineering Science
- Environmental Science: Geographic and Cartographic Sciences
- Environmental Science: Geology, B.S.
- Environmental Science: Mathematics
- Environmental Science: Sociology-Anthropology, B.S.
Additional Information and Notes

2.0 GPA in all required major and related courses (including specified General Education courses).

Minimum of 39 hours of 3000 and 4000 level courses.

Electives to complete 120 hours.

See Degree and Graduation Requirements for additional requirements.