Environmental Analysis & Planning

Major

Contact:
Fritz Kessler, Chair,
Department of Geography

Participating Faculty:
Professors:
Caupp (Geography), Kessler
(Geography), Precht (Geography),
Raesley (Biology)

Associate Professors:
Allen (Geography), Pegg (Biology),
Ramspott (Geography)

This multidisciplinary program
is jointly administered by the
Departments of Biology and
Geography.

You may not minor in Environmental
Analysis and Planning.

The program is supported by the
Maryland Department of the
Environment.

Internship is optional.

You are advised to complete the
100- and 200-level courses within
your first 60 hours of course work,
and before enrolling in 400-level
courses in Geography and Biology.

Summary of Requirements for Major in Environmental Analysis and Planning

Major

1. Courses in Biology: (21-23 hours)
   - BIOL 149 General Biology I (GEP Group C)
   - BIOL 160 General Zoology
   or BIOL 161 General Botany
   - BIOL 314 Plant Taxonomy
   - BIOL 340 General Ecology
   Take 2 of 4 courses:*
   - BIOL 303 Plant Physiology
   - BIOL 304 Microbiology
   - BIOL 421 Sample Design and Analysis of Plant Communities
   - BIOL 430 Limnology
   * GEOG 445, Biogeography, may be substituted for one of the BIOL electives.

2. Courses in Geography: (46-47 hours)
   - GEOG 103/113 Physical Geography (GEP Group C)
   - GEOG 207 Physical Geology and Geomorphology
   - GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency)
   - GEOG 310 Fundamentals of Cartography
   - GEOG 340 Soil: Genesis, Nature and Characterization
   - GEOG 413 Remote Sensing - Image Interpretation
   - GEOG 430 Surface Water Hydrology
   - GEOG 470 Soil & Water Engineering
   - GEOG 472 Environmental Planning (Capstone)
   - GEOG 473 Environmental Law
   Take four of 10 courses:
   - GEOG 208 Earth System History
   - GEOG 317 Principles of Geographic Information Science
   - GEOG 420 Topics in the Mapping and Geospatial Sciences
   - GEOG 431 Quaternary Environments
   - GEOG 432 Groundwater Hydrology
   - GEOG 433 Surveying and Field Techniques
   - GEOG 441 Soil Analysis
   - GEOG 471 Engineering for Land Development
   - GEOG 475 Glacial/Periglacial Geomorphology
   - GEOG 476 Fluvial/Coastal Geomorphology

3. Required Courses in Other Departments: (17-18 hours)
   - CHEM 201 General Chemistry I (GEP Group C)
   - CHEM 202 General Chemistry II
   - ENGL 338 Technical Writing (Core Skill 2)
   - MATH 109 Elements of Applied Probability and Statistics (Core Skill 3)
   - MATH 220 Calculus for Applications
   or MATH 236 Calculus I (Core Skill 3)

| Hours Required in Geography: | 46-47 |
| Hours Required in Biology: | 21-23 |
| Hours Required in Other Departments: | 17-18 |
| Total Hours Required: | 84-88 |