

Environmental Analysis & Planning

Major

Contact:

Fritz Kessler, Chair,
Department of Geography

Participating Faculty:

Professors:

Caupp, Precht (Geography),
Raesley (Biology)

Associate Professors:

Kessler (Geography),
Pegg (Biology)

Assistant Professors:

Allen, M. 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.

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

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 150 General Biology II
 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 eleven courses:

GEOG 208 Earth System History
 GEOG 317 Principles of Geographic Information Science
 GEOG 414 Digital Image Processing and Analysis
 GEOG 417 Geospatial Analysis
 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 209 Elements of Applied Probability and Statistics
(Core Skill 3)
 MATH 220 Calculus for Applications
 or MATH 236 Calculus I (*Core Skill 3*)