Environmental Analysis & Planning

Contact:
James Saku (Chair),
Department of Geography

Participating Faculty:

Professors:
Precht (Geography), Raesley (Biology)

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

Assistant Professors:
Brosi (Biology), Flood (Geography),
Hocking (Biology)

- 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

<table>
<thead>
<tr>
<th>Major</th>
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<tbody>
<tr>
<td>Hours Required in Geography:</td>
<td>46-47</td>
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<tr>
<td>Hours Required in Biology:</td>
<td>21-23</td>
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<tr>
<td>Hours Required in Other Departments:</td>
<td>17-18</td>
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<tr>
<td>Total Hours Required:</td>
<td>84-88</td>
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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
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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)