Environmental Science and Management emphasizes the biological, chemical, and physical features of the environment. It is designed for students interested in the management of soil and water resources and in understanding how to protect and improve environmental quality. The concentration includes coursework in environmental chemistry, environmental microbiology, ecohydrology, and environmental quality, as well as courses focused more specifically on soil and water sciences.
Concentration prescribed courses. See specific requirements for each concentration listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
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<td><strong>Total Hours</strong></td>
<td>126</td>
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</tbody>
</table>

**Concentration Core Requirements**

- NRES 351  Introduction to Environmental Chemistry  3
- NRES 402  Ecohydrology and Water Management  3
  - or NRES 401  Watershed Hydrology
- NRES 475  Environmental Microbiology  3

**Concentration Elective Requirements**

- Two Soil and Water Science Courses  6-8
  - NRES 429  Aquatic Ecosystem Conservation
  - NRES 471  Pedology
  - NRES 485  Stream Ecosystem Management
  - NRES 487  Soil Chemistry
  - NRES 488  Soil Fertility and Fertilizers
  - NRES 490  Surface Water System Chemistry
  - ABE 454  Environmental Soil Physics
  - GEOG 406  Fluvial Geomorphology
  - GEOG 459  Ecohydraulics

- One Environmental Quality Course  3-4
  - NRES 403  Watersheds and Water Quality
  - NRES 438  Soil Nutrient Cycling
  - NRES 474  Soil and Water Conservation
  - CPSC 336  Tomorrow’s Environment
  - CPSC 431  Plants and Global Change
  - TSM 352  Land and Water Mgt Systems
  - UP 405  Watershed Ecology and Planning
  - ATMS 449  Biogeochemical Cycles
  - ESE 320  Water Planet, Water Crisis
  - GEOL 380  Environmental Geology
  - IB 485  Environ Toxicology & Health

**Total Concentration-Required Hours**  18-21