HYDROLOGY MINOR

Water is critical to all life on earth. The hydrology minor at UNC is designed to provide students with fundamental knowledge of the natural and societal processes which govern the occurrence, distribution, and biogeochemical properties of water on the Earth, and the ability to use that knowledge to address modern societal challenges. Students who complete the minor will be well-qualified to pursue careers in environmental consulting, water management and/or policy, climate services, and more.

Requirements

In addition to the program requirements listed below, students must:

- take at least nine hours of their minor "core" requirements at UNC–Chapel Hill
- earn a minimum cumulative GPA of 2.000 in the minor core requirements. Some programs may require higher standards for minor or specific courses.

For more information, please consult the degree requirements section of the catalog (https://catalog.unc.edu/undergraduate/degree-requirements/).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMES 324 &amp; 324L</td>
<td>Water in Our World: Introduction to Hydrologic Science and Environmental Problems and Water in Our World Laboratory</td>
<td>4</td>
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<tr>
<td>Four additional courses emphasizing surface or groundwater processes, aquatic ecology or biogeochemistry, or water resources, chosen from the following list:</td>
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- EMES 414/ENEC 514: Flood Hydrology: Models and Data Analysis
- EMES/ENEC 417: Surface Processes and Landscape Evolution
- EMES 431: Major World Rivers and Global Change: From Mountains to the Sea
- EMES 433: Wetland Hydrology
- EMES 436: Geochemistry of Natural Waters
- EMES 460: Fluid Dynamics of the Environment
- EMES 508: Global Hydrology
- ENEC 581: Water Resource Planning and Policy Analysis
- ENEC 586: Water Quality Policies and Planning
- ENVR 453: Groundwater Hydrology
- GEOG 341: Hydrology, Ecology, and Sustainability of the Humid Tropics
- GEOG 440: Earth Surface Processes
- GEOG 441: Introduction to Watershed Systems
- GEOG 442: Limnology and Freshwater Ecology
- 3 credits of mentored undergraduate research (e.g., 395) with an advisor with a hydrology focus

Total Hours: 16

1 Check the course description for prerequisite(s).

2 Also offered as ENVR 781.

Department Programs

Majors


Minors

- Environmental Microbiology Minor (https://catalog.unc.edu/undergraduate/programs-study/environmental-microbiology-minor/)
- Geological Sciences Minor (https://catalog.unc.edu/undergraduate/programs-study/geological-sciences-minor/)
- Hydrology Minor (p. 1)

Graduate Programs

- M.S. in Geological Sciences (https://catalog.unc.edu/graduate/schools-departments/geological-sciences/)
- M.S. in Marine Sciences (https://catalog.unc.edu/graduate/schools-departments/marine-sciences/)
- Ph.D. in Geological Sciences (https://catalog.unc.edu/graduate/schools-departments/geological-sciences/)
- Ph.D. in Marine Sciences (https://catalog.unc.edu/graduate/schools-departments/marine-sciences/)

Contact Information

Department of Earth, Marine, and Environmental Sciences
Visit Program Website (https://emes.unc.edu/)
Murray and Mitchell Halls

Chair
Eric Kirby
ekirby@unc.edu

Director of Undergraduate Studies
Kevin Stewart
KGSTEWAR@email.unc.edu

Undergraduate Student Services Manager
Heratia Brelland
heratiab@unc.edu