ENVIRONMENTAL STUDIES
MAJOR, B.A.

Contact Information
Curriculum for the Environment and Ecology
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This major is designed for students seeking interdisciplinary preparation in the social sciences and humanities needed to understand how society affects the environment, how it organizes itself to respond to environmental problems, and how understanding of the environment is transmitted through culture. The major prepares students for graduate and professional training, especially in environmental policy, journalism, education, and law.

Department Programs
Majors
- Environmental Studies Major, B.A. and Dual Bachelor’s-Master’s Degree Programs (p. 1)
- Environmental Science, B.S. (http://catalog.unc.edu/undergraduate/programs-study/environmental-science-bs)

Minors
- Environmental Science and Studies Minor (http://catalog.unc.edu/undergraduate/programs-study/environmental-science-studies-minor)
- Sustainability Studies Minor (http://catalog.unc.edu/undergraduate/programs-study/sustainability-studies-minor)

Graduate Programs
- Doctor of Philosophy (http://catalog.unc.edu/graduate/schools-departments/environment-ecology/#programtext)
- Master of Science (http://catalog.unc.edu/graduate/schools-departments/environment-ecology/#programtext)
- Master of Arts (http://catalog.unc.edu/graduate/schools-departments/environment-ecology/#programtext)

Requirements
The environmental studies program provides two options:
- Environmental Studies Major, B.A. (p.  ) (with several concentration areas)
- Environmental Studies Major, B.A.–Sustainability Track (p. )

Environmental Studies Major, B.A.
In addition to the program requirements listed below, students must
- attain a final cumulative GPA of at least 2.0
- complete a minimum of 45 academic credit hours earned from UNC-Chapel Hill courses
- take at least half of their major course requirements (courses and credit hours) at UNC-Chapel Hill
- earn a minimum of 18 hours of C or better in the major core requirements (some majors require 21 hours).

For more information, please consult the degree requirements section of the catalog (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements/#degreerequirementstext).

Core Requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENEC 201</td>
<td>Introduction to Environment and Society</td>
<td>H 4</td>
</tr>
<tr>
<td>ENEC 202</td>
<td>Introduction to the Environmental Sciences</td>
<td>4</td>
</tr>
<tr>
<td>ENEC 698</td>
<td>Capstone: Analysis and Solution of Environmental Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following earth system science courses:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 201</td>
<td>Ecology and Evolution</td>
</tr>
<tr>
<td>ENEC 222</td>
<td>Estuarine and Coastal Marine Science</td>
</tr>
<tr>
<td>ENEC 489</td>
<td>Ecological Processes in Environmental Systems</td>
</tr>
<tr>
<td>ENEC/MASC 448</td>
<td>Coastal and Estuarine Ecology</td>
</tr>
</tbody>
</table>

ENEC 324 & 324L | Water in Our World: Introduction to Hydrologic Science and Environmental Problems and Water in Our World Laboratory |
| GEOL 324 & 324L | Water in Our World: Introduction to Hydrologic Science and Environmental Problems and Water in Our World Laboratory |
| GEOG 412 | Synoptic Meteorology |
| GEOL 110 | Earth and Climate for Science Majors |
| GEOL 215 | Energy Resources |

Two courses from one of the following skills categories: 6
GIS:
- ANTH 419 | Anthropological Application of GIS |
- ENEC 479 | Landscape Analysis |
- GEOG 370 | Introduction to Geographic Information |
- GEOG 491 | Introduction to GIS |
- GEOG 541 | GIS in Public Health |
- GEOG 591 | Applied Issues in Geographic Information Systems |
- GEOG 592 | Geographic Information Science Programming |

Remote Sensing:
- GEOG 370 | Introduction to Geographic Information |
- GEOG 477 | Introduction to Remote Sensing of the Environment |
- GEOG 577 | Advanced Remote Sensing |
- GEOL/MASC 483 | Geologic and Oceanographic Applications of Geographic Information Systems |

Statistics:
- BIOS 600 | Principles of Statistical Inference |
- ECON 400 | Introduction to Statistics and Econometrics |
- ENEC 562 | Statistics for Environmental Scientists |
- STOR 155 | Introduction to Data Models and Inference |

Five courses chosen from one of the concentrations list below 15-20

Additional Requirements
Concentrations

- Agriculture and Health (p.
- Ecology and Society (p.
- Environmental Behavior and Decision Making (p.
- Population, Environment, and Development (p.

Agriculture and Health

ANTH 252 Archaelogy of Food 3
ANTH 306 Water and Inequality: Anthropological Perspectives 3
ANTH 319 Global Health 3
ANTH/ENEC 238 Human Ecology of Africa 3
ENEC 325 Water Resource Management and Human Rights 3
ENEC 370 Agriculture and the Environment 3
ENEC 395 Research in Environmental Sciences and Studies for Undergraduates 3
ENEC 420 Community Design and Green Architecture 3
ENEC 693H Honors Research in Environmental Sciences and Studies 3
ENEC/ENVR 522 Environmental Change and Human Health 3

ENEC/GEOL 324 Water in Our World: Introduction to Hydrologic Science and Environmental Problems 1 3
ENEC/GEOL 324L Water in Our World Laboratory 1
GEOG 434 Cultural Ecology of Agriculture, Urbanization, and Disease 3
GEOG 457 Rural Latin America: Agriculture, Environment, and Natural Resources 3
GEOG 542 Neighborhoods and Health 3
PLCY 475 The Political Economy of Food 3
PLCY 485 Poverty, Health, and Human Development in Low Income Countries 3

H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

1 This course appears on a core requirement list as well as a concentration requirement list, but can only be counted toward one of the two.

Recommended courses are ECON 400 and one of the following PH courses: COMM 375/ENEC 375, ENEC 325, or ENEC 368/PHIL 368.

Total Hours 120
or ENEC 694H Honors Project in Environmental Sciences and Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENEC/266</td>
<td>Antagonist and Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 218</td>
<td>Environment Justice</td>
<td>3</td>
</tr>
<tr>
<td>BIOL/MATH 553</td>
<td>Mathematical and Computational Models in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 507</td>
<td>Sustainable Business and Social Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>COMM/ENEC 375</td>
<td>Environmental Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 305</td>
<td>Data Analysis and Visualization of Social and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Environmental Interactions</td>
<td></td>
</tr>
<tr>
<td>ENEC 306</td>
<td>Business and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 309</td>
<td>Environmental Values and Valuation</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 313</td>
<td>Risk-Based International Environmental Decisions</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 325</td>
<td>Water Resource Management and Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 350</td>
<td>Environmental Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 351</td>
<td>Coastal Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 354</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 395</td>
<td>Research in Environmental Sciences and Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 474</td>
<td>Sustainable Coastal Management</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 485</td>
<td>Coastal Resource Economics and Policy</td>
<td>3-4</td>
</tr>
<tr>
<td>ENEC 486</td>
<td>Environmental Markets: Science and Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 491</td>
<td>Effective Environmental Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 492</td>
<td>Social Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 493</td>
<td>Honors Research in Environmental Sciences and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Studies</td>
<td></td>
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<tr>
<td>ENEC 494</td>
<td>Honors Project in Environmental Sciences and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Studies</td>
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</tr>
</tbody>
</table>

Population, Environment, and Development

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTH 318</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Political Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 459</td>
<td>Ecological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 539</td>
<td>Environmental Justice</td>
<td>3</td>
</tr>
<tr>
<td>ANTH/ENEC 238</td>
<td>Human Ecology of Africa</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 266</td>
<td>Contemporary Africa: Issues in Health, Population,</td>
<td>3</td>
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<tr>
<td></td>
<td>and the Environment</td>
<td></td>
</tr>
<tr>
<td>ENEC 325</td>
<td>Water Resource Management and Human Rights</td>
<td>3-4</td>
</tr>
<tr>
<td>ENEC 350</td>
<td>Environmental Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 351</td>
<td>Coastal Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 370</td>
<td>Agriculture and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 380</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 395</td>
<td>Research in Environmental Sciences and Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 474</td>
<td>Sustainable Coastal Management</td>
<td>3</td>
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<td>ENEC 485</td>
<td>Coastal Resource Economics and Policy</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>Studies</td>
<td></td>
</tr>
</tbody>
</table>
Environmental Studies Major, B.A.–Sustainability Track

This major is designed for students who wish to pursue business and policy with an interdisciplinary approach to resiliency and sustainability. This track is appropriate for students wishing to pursue graduate or professional studies in business or policy.

In addition to the program requirements listed below, students must

- attain a final cumulative GPA of at least 2.0
- complete a minimum of 45 academic credit hours earned from UNC-Chapel Hill courses
- take at least half of their major course requirements (courses and credit hours) at UNC-Chapel Hill
- earn a minimum of 18 hours of C or better in the major core requirements (some majors require 21 hours).

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Core Requirements

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENEC 201</td>
<td>Introduction to Environment and Society</td>
<td>4</td>
</tr>
<tr>
<td>ENEC 330</td>
<td>Principles of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENEC 698</td>
<td>Capstone: Analysis and Solution of Environmental Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

One course from each of the Pillars of Sustainability, plus one additional course at the 300-level or above in any pillar:

- Equity
  - ANTH 306 Water and Inequality: Anthropological Perspectives
  - ANTH 439 Political Ecology

- Environment
  - BUSI 507 Sustainable Business and Social Entrepreneurship
  - ECON 400 Introduction to Statistics and Econometrics
  - ENEC 306 Business and the Environment
  - ENEC 309 Environmental Values and Valuation
  - ENEC 380 Environmental Economics
  - ENEC 485 Coastal Resource Economics and Policy
  - ENEC 580 Environmental Markets: Science and Economics
  - PLCY 475 The Political Economy of Food

- Economics
  - BUSI 507 Sustainable Business and Social Entrepreneurship

- Environment
  - ENEC 202 Introduction to the Environmental Sciences
  - ENEC/BIOL 256 Mountain Biodiversity
  - ENEC/GEOG 264 Conservation of Biodiversity in Theory and Practice
  - ENEC 304 Restoration Ecology
  - ENEC 324 Water in Our World: Introduction to Hydrologic Science and Environmental Problems
  - ENEC 324L & 324L Water in Our World Laboratory
  - ENEC 370 Agriculture and the Environment
  - ENEC 405 Mountain Preservation
  - ENEC 420 Community Design and Green Architecture
  - ENEC 431 Systems Analysis for Sustainability
  - ENEC 462 Ecosystem Management
  - ENEC 471 Human Impacts on Estuarine Ecosystems
  - ENEC 482 Energy and the Environment: A Coastal Perspective
  - ENEC 489 Ecological Processes in Environmental Systems
  - ENVR/ENEC/PLCY 585 American Environmental Policy

- GEOL 215 Energy Resources
  - MASC/ENEC 220 North Carolina Estuaries: Environmental Processes and Problems
  - MASC 441 Marine Physiological Ecology
  - MASC 444 Marine Phytoplankton

- Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.
Sample Plan of Study

Sample Plans can be used as a guide to identify the courses required to complete the major and other requirements needed for degree completion within the expected 8 semesters. The actual degree plan may differ depending on the course of study selected (second major, minor, etc.). Students should meet with their academic advisor to create a degree plan that is specific and unique to their interests. The Sample Plans represented in this catalog are intended for first-year students entering UNC-Chapel Hill in the fall term. Some courses may not be offered every term.

Suggested Program of Study for B.A. Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 101 &amp; 101L</td>
<td>Principles of Biology and Introductory Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Economics</td>
<td>H</td>
</tr>
<tr>
<td>ENEC 201</td>
<td>Introduction to Environment and Society</td>
<td>H</td>
</tr>
<tr>
<td>ENGL 105</td>
<td>English Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>Language levels 2 and 3 (FL)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus of Functions of One Variable I</td>
<td>3</td>
</tr>
<tr>
<td>Lifetime fitness</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Approaches (<a href="http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements">http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements</a>) and Connections (<a href="http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements">http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements</a>) (two courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Sophomore Year

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101 &amp; 101L</td>
<td>General Descriptive Chemistry I and Quantitative Chemistry Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>
PHYS 114  General Physics I: For Students of the Life Sciences

PHYS 118  Introductory Calculus-based Mechanics and Relativity

ENEC 202  Introduction to the Environmental Sciences  4

Select one of the following:  4

CHEM 102  General Descriptive Chemistry II
& 102L  and Quantitative Chemistry Laboratory II H

PHYS 115  General Physics II: For Students of the Life Sciences

PHYS 119  Introductory Calculus-based Electromagnetism and Quanta

One earth system science core  3-4

Two courses from the concentration core  6

Approaches (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) and Connections (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (two courses)  6

Hours  27-28

Junior Year

Two courses from the environmental skills core  6

Two courses from the concentration core  6

ECON 101  Introduction to Economics  3

Approaches (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) and Connections (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (three courses)  9

Free elective course  6

Hours  30

Senior Year

ENEC 698  Capstone: Analysis and Solution of Environmental Problems  3

Remaining concentration course  3

Remaining Approaches (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) and Connections (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) courses  6

Free electives as needed to complete a minimum of 120 academic hours  21

Hours  33

Total Hours  120-121

H  Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

Suggested Program of Study for the Sustainability Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENEC 201</td>
<td>Introduction to Environment and Society H</td>
<td>4</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus for Business and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 231</td>
<td>or Calculus of Functions of One Variable I</td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Economics H</td>
<td>3</td>
</tr>
</tbody>
</table>

Language levels 2 and 3  6

ENGL 105  English Composition and Rhetoric  3

Lifetime fitness  1

Approaches (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) and Connections (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (two courses)  6

Elective course  3

Hours  29

Sophomore Year

ENEC 330  Principles of Sustainability  3

Two environmental skills core courses  6

Two pillars of sustainability core courses  6

Approaches (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) and Connections (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (three courses)  9

Elective courses  6

Hours  30

Junior Year


One environmental skills core course  3

Two pillars of sustainability core courses  6

ECON 400  Introduction to Statistics and Econometrics H  3

Approaches (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) and Connections (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (two courses)  3

Supplemental General Education (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (one course)  3

Free elective courses  9

Hours  30

Senior Year

ENEC 698  Capstone: Analysis and Solution of Environmental Problems  3

Supplemental General Education (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) (two courses)  6

Remaining General Education (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements) courses and free electives to reach a minimum of 120 credit hours  22

Hours  31

Total Hours  120

H  Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

Dual Bachelor’s–Master’s Degree Program

Two dual bachelor’s–master’s programs are offered:

...
1. **Environmental and Science Communication** ([esc.web.unc.edu](http://esc.web.unc.edu)) is a collaboration between Environment and Ecology and the School of Media and Journalism; and

2. **Environmental Informatics** ([dualesis.web.unc.edu](http://dualesis.web.unc.edu)) is a collaboration between Environment and Ecology and the School of Information and Library Sciences.

Each program is designed for students to earn their bachelor’s degree and complete a master’s degree in a professional school in as little as five years. The dual degree in environmental and science communication is approached through the bachelor’s of arts degree with a major in environmental studies, and students then complete a master’s degree in journalism. The dual degree in environmental informatics is approached through the bachelor’s of science degree with a major in environmental science, and students then complete a master’s in information sciences.

For the environmental science communication program, students must complete the undergraduate requirements for the B.A. degree in environmental studies and the graduate requirements for the M.A. degree in mass communication as separate degrees. For the environmental informatics program, students must complete the undergraduate requirements for the B.S. degree in environmental sciences and the graduate requirements for the M.S.I.S. degree in information sciences as separate degrees. Students may begin taking courses for the graduate degree while in the undergraduate program, and a limited number of credit hours of approved graduate coursework may be transferred into the graduate degree program in mass communication (up to nine hours) and information sciences (up to 12 hours). Courses taken as an undergraduate for graduate credit may not be counted as part of the undergraduate degree if the intent is to transfer them to the graduate program. Early advising is essential to success in navigating these dual-degree programs. Advisors are available in both units to help students prepare and select courses appropriately to get the most from their education.

Applying for the dual-degree program is a two-step process. It is highly recommend that interested first- and second-year students speak to an advisor early in their college program. Students must submit a conditional application to the program no later than their junior year to ensure that they will receive preference in registering for courses. Students must formally apply to the program through The Graduate School in their senior year. The GRE is not required for applications from current UNC–Chapel Hill students. For complete information on the application process and curriculum requirements, please go to [esc.web.unc.edu](http://esc.web.unc.edu).

**Special Opportunities in Environmental Science and Studies**

**Honors in Environmental Science or Studies**

Students in either the B.S. or B.A. degree program may participate in honors research leading to graduation with honors or highest honors. This distinction is earned by participation in honors research (ENEC 693H) and culminates in ENEC 694H, thesis writing and defense. Students should follow the guidelines established by Honors Carolina and meet with the faculty honors advisor, Dr. Geoff Bell, to ensure that appropriate requirements are fulfilled (Requirements can be found on the Honors Program Web site ([http://honorscarolina.unc.edu/current-students/honors-thesis-and-undergraduate-research/honors-thesis)](http://honorscarolina.unc.edu/current-students/honors-thesis-and-undergraduate-research/honors-thesis)). Honors students can use three credit hours of ENEC 693H (research) or ENEC 694H (thesis), but not both courses, to fulfill a concentration requirement.

**Departmental Involvement**

The Carolina Environmental Student Alliance (CESA) is an interdisciplinary organization dedicated to uniting the environmental interests of students across campus. Participation is open to all students and community members with an interest in the environment. The Epsilon Eta Environmental Honors Fraternity is an organization dedicated to excellence in environmental education. Interested students are nominated for membership.

**Experiential Education**

Possibilities for experiential education include APPLES service-learning courses (ENEC 593), Coral Reef Ecology and Management (ENEC 259), Sierra Nevada Program (ENEC 208), internships (ENEC 393, ENEC 493), research (ENEC 395, ENEC 396, ENEC 698), and honors research (ENEC 693H, ENEC 694H). Additionally, a series of experiential education field sites is available in North Carolina and around the world where students may take coursework and conduct research for a semester. Fall semester field sites are offered in North Carolina at Highlands Biological Station (mountain/ecology), the Institute for Marine Sciences (marine ecology/geoecology), and the Coastal Studies Institute/Outer Banks (coastal policy and economics). Spring semester field sites are offered on the UNC campus (Sustainable Triangle field site), in Thailand (energy and pollution), and Ecuador (ecology or sustainable development). The Ecuador and Thailand field site experiences incorporate part of the following summer as well. Summer programs are offered at Cambridge, England (energy policy), and in the Galapagos (ecology). Contact our advisors about other opportunities. Faculty members often arrange Burch Program summer educational trips to such locations as Siberia, Russia (ecology and anthropology), the Sierra Nevadas (ecology and physical geography), and northern Europe (energy, sustainability, and communication).

**Internships**

Students are encouraged to apply for paid or unpaid internships in local, state, national, and international environmental organizations. Internship opportunities can be found through the environmental internships website ([http://environmentalinternships.web.unc.edu](http://environmentalinternships.web.unc.edu)). These internships provide valuable practical experience, and some may be conducted for academic credit.

**Study Abroad**

Exchange and other study abroad programs are available through the UNC Study Abroad Office. At some locations students may take courses for UNC credit, such as some field sites listed above. Students may take courses at other universities during study abroad and apply for transfer credit as well. We encourage students to participate in study abroad during their career at Carolina.

**Undergraduate Awards**

Undergraduates may be considered for the Watts and Betsy Carr Awards, Mary and Watts Hill Jr. Awards, and Robert Alonzo Winston Scholarships.

**Undergraduate Research**

All students are encouraged (but not required) to complete an independent or team research project. Such projects introduce students to the tools needed for graduate study. They also provide an important opportunity for working directly with the world-class environmental faculty members and graduate students at UNC–Chapel Hill, as well as...
in the many environmental organizations in the Research Triangle. The Triangle area contains one of the largest collections of environmental organizations and expertise in the world, providing unique opportunities for students to conduct research on an immense range of topics from fundamental scientific research to policy applications.