ENVIRONMENT AND SUSTAINABILITY, B.A.

Students in the undergraduate B.A. in Environment and Sustainability work with diverse faculty and staff from across the campus and community in addition to their time in Departmental classes. The aims of this interdisciplinary program are (1) to learn how to gather and integrate information about environmental and sustainability problems from multiple disciplines, (2) to think critically about the causes of environmental and sustainability problems, (3) to propose effective and equitable solutions and evaluate their strengths and weaknesses, and (4) to communicate ideas clearly.

Students in the Program come from a variety of backgrounds, both culturally and disciplinarily, and participate regularly in internships and study abroad through Departmental and extramural offerings. Our classes require students to engage in field work as well as experiential learning. Every major receives the benefit of in-depth personalized advising every semester from permanent faculty who have received honors for their work in mentoring students.

Graduates will be well prepared for roles as educated citizens who are especially well informed about the environment and for numerous career paths that require a broad range of knowledge about environmental and sustainability issues. In addition to interdisciplinary core courses, the curriculum requires courses in biology, chemistry, geography, and philosophy, and students may elect to take courses in other disciplines, ranging from anthropology and sociology, to art and English, and to the physical sciences. Graduates of environmental and sustainability programs go on to careers in non-profits, government, and the private sector, as well as to graduate studies in a variety of disciplines.

Overall Requirements

- 120 credit hours, to include at least 36 credits at or above the 300 course level.
- A minimum of 69 credits toward the major, comprised of core courses (41 credits) and concentration-specific options (at least 28 credits).
- Only grades of C- or higher will count toward completion of the required core courses in the major as well as BIO 105/BIO 105L, BIO 111/BIO 111L, and BIO 112/BIO 112L used toward completion of the concentration requirements.

Degree Program Requirements

University Requirements (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-requirements/undergraduate-degrees-and-degree-requirements/)

General Education Requirements (MAC) (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-requirements/general-education-program/#generaleducationcorerequirementstext)

College of Arts and Sciences Additional Requirements (CIC) (https://catalog.uncg.edu/arts-sciences/#additionalundergraduaterequirementstext)

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Core Courses</td>
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<td>41</td>
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<tr>
<td>GES 103 &amp; 103L</td>
<td>Introduction to Earth Science and Earth Science Laboratory</td>
<td></td>
</tr>
<tr>
<td>GES 162</td>
<td>Introduction to Sustainability</td>
<td></td>
</tr>
<tr>
<td>GES 164</td>
<td>Introduction to Environment</td>
<td></td>
</tr>
<tr>
<td>GES 270</td>
<td>Environment and Experience</td>
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<tr>
<td>GES 325</td>
<td>Introduction to Spatial Analysis</td>
<td></td>
</tr>
<tr>
<td>GES 482</td>
<td>Topics in Ethics and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>GES 484</td>
<td>Topics in Development and Economics</td>
<td></td>
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<tr>
<td>GES 486</td>
<td>Topics in Equity and Society</td>
<td></td>
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<tr>
<td>GES 488</td>
<td>Topics in Environmental Sciences</td>
<td></td>
</tr>
<tr>
<td>CHE 252</td>
<td>Chemistry and the Human Environment</td>
<td></td>
</tr>
<tr>
<td>MAT 183</td>
<td>Mathematics for the Life Sciences</td>
<td></td>
</tr>
<tr>
<td>PHI 363</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits from the following GES courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GES 260</td>
<td>Sustainable Campus Operations</td>
<td></td>
</tr>
<tr>
<td>GES 367</td>
<td>Research in Environment &amp; Sustainability</td>
<td></td>
</tr>
<tr>
<td>GES 462</td>
<td>Sustainability</td>
<td></td>
</tr>
<tr>
<td>GES 464</td>
<td>Environment</td>
<td></td>
</tr>
</tbody>
</table>

Concentrations

Students must select one of the concentrations as detailed following the major requirements.

- Natural Sciences
- Equity, Development, and Ethics

Electives

Electives sufficient to complete the 120 credit hours required for degree.

Natural Sciences Concentration Requirements

In addition to the required 30 credits specified below, all students in the Natural Sciences concentration are required to have a minor in Biology. All courses in the Biology minor already on the Environmental Science Options and Elective lists below will count toward the requirements for the Natural Sciences concentration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>BIO 111 &amp; 111L</td>
<td>Principles of Biology I and Principles of Biology I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
| BIO 112 & 112L | Principles of Biology II and Principles of Biology II Laboratory | *

Environmental Science

Select 13 credits from the following:

- BIO 301 Principles of Ecology
- BIO 315 Ecology and Evolution Laboratory
BIO 361  Biology and Conservation of Sea Turtles
BIO 401  Adv Topics in Animal Ecology
BIO 410  Advanced Tpcs in Plant Ecology
BIO 420  Marine Biology
BIO 421  Ecosys Ecology Biogeochem
BIO 422  Plant Diversity
BIO 426  Conservation Biology
BIO 427  Landscape Ecology
& BIO 423  and Landscape Ecology Laboratory
BIO 429  Aquatic Ecology
& BIO 432  and Aquatic Ecology Lab
BIO 431  The Biosphere
BIO 438  Animal Behavior
BIO 441  Invertebrate Zoology
BIO 444  Entomology
BIO 445  Disease Ecology
BIO 451  Vascular Plant Systematics
& 451L  and Vascular Plant Systematics Lab
BIO 456  Global Change
BIO 470  Vertebrate Zoology
BIO 480  Environmental Physiology
BIO 488  Essentials of Toxicology
CHE 205  Introductory Organic Chemistry
CHE 331  Quantitative Analysis
CHE 351  Organic Chemistry I
CHE 352  Organic Chemistry II
GES 305  Environmental Hazards Assessment
GES 312  Geomorphology of North America
GES 313  Natural Resource Regions of North America
GES 314  Physical Geography: Landscape Processes
& 314L  and Physical Geography Laboratory
GES 319  Weather and Climate
& 319L  and Climatology Laboratory
GES 328  The Water Planet
GES 330  Elements of Hydrology
GES 358  Geographic Information Systems
GES 359  Remote Sensing of Environment
GES 418  Biogeography
GES 419  Advanced Weather and Climate-Synoptic
Climatology

Equity and Society  3
Select 3 credits from the following:

ATY 362  Methods in Cultural Anthropology
ATY 377  Disaster, Self, and Society
ATY 420  Economic Anthropology
ATY 426  Food and Culture in a Global Context
ATY 450  Environmental Anthropology
ATY 459  Anthropology of Global Water, Sanitation and
Hygiene (WASH)
ATY 465  Medical Anthropology
ATY 469  Anthropology of Infectious Disease
CTR 444  Recreation, Parks, and Health
GES 302  Urban Geography: Sustainable Land Use

GES 303  World Population Problems
GES 304  Sustainable Transport and Mobility
GES 322  Research Methods in Spatial Science
GES 331  Sustainable Tourism and Transportation
GES 402  Sustainable Urban Planning in an Entrepreneurial
Environment
GES 405  Sustainable Regional Planning
GES 415  National Parks and Protected Areas
GES 432  Geography of Livable Cities
HEA 307  Global Health
HEA 315  Epidemiology
HEA 316  Environmental Health
HIS 319  Sugar, Soccer, Samba: History of Brazil
HIS 323  American Indians and Nature
HIS 334  United States Environmental History
PCS 406  Environmental Justice
PSC 312  Environmental Law and Policy
PSC 313  Natural Resources Law and Policy
SOC 328  Social Movements
SOC 330  Urban Society
SOC 346  Population Problems
SOC 370  Environmental Sociology
SOC 373  Green Criminology
SOC 377  Disaster, Self, and Society
SOC 421  Sem in Populatn / Urbn Studies

Development and Economics  3
Select 3 credits from the following:

BUS 130  Entrepreneurship in a Sustainable Global
Environment
BUS 340  Social Entrepreneurship
ECO 100  Economics of a Global Sustainable Society
ENT 300  Ideas to Sustainable Opportunities: Feasibility
Analysis
ENT 440  Experiences in Sustainable Entrepreneurship
HTM 200  Introduction to Sustainable Development
HTM 312  Hospitality Facilities Management
HTM 314  Sustainable Food and Craft Beverage
HTM 332  Sustainable Destination and Experience
Management
HTM 335  Sustainable Tourism and Transportation

Ethics and Aesthetics  3
Select 3 credits from the following:

ARE 260  Art, Education, and Social Practice
ARH 359  Art and/as Social Justice
CST 420  Environmental Communication
ENG 290  Social Movement and Social Justice Rhetorics
ENG 373  American Romanticism
ENG 380  Literature and the Environment
IAR 124  Introduction to Sustainable Design
LLC 130  Global Green: Cultures of Production and/or
Consumption
MUS 326  Music and Environment
PHI 261  Ethical Issues in Business
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<tbody>
<tr>
<td>PHI 322</td>
<td>Philosophy of the Arts</td>
<td></td>
</tr>
<tr>
<td>PHI 338</td>
<td>Ethics and International Affairs</td>
<td></td>
</tr>
<tr>
<td>REL 250</td>
<td>Religious Traditions and Care of the Earth</td>
<td></td>
</tr>
<tr>
<td>VPA 324</td>
<td>The Arts as Social Change: Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>WGS 374</td>
<td>Ecofeminism</td>
<td></td>
</tr>
<tr>
<td>WGS 375</td>
<td>Topics in Native American and Indigenous Studies</td>
<td></td>
</tr>
</tbody>
</table>

* A grade of C- or higher is required in BIO 111/BIO 111L and BIO 112/BIO 112L.

## Equity, Development, & Ethics Concentration

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIO 105</td>
<td>Major Concepts of Biology and Major Concepts of Biology Laboratory *</td>
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</tr>
<tr>
<td>BIO 112</td>
<td>Principles of Biology II and Principles of Biology II Laboratory *</td>
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</tbody>
</table>

### Biology

- Select 4 credits of the following, with a minimum grade of C- in both lecture and lab:
  - BIO 105 Major Concepts of Biology and Major Concepts of Biology Laboratory *
  - BIO 112 Principles of Biology II and Principles of Biology II Laboratory *

### Environmental Science

- Select 3 credits from the following:
  - BIO 301 Principles of Ecology
  - BIO 315 Ecology and Evolution Laboratory
  - BIO 361 Biology and Conservation of Sea Turtles
  - BIO 401 Adv Topics in Animal Ecology
  - BIO 410 Advanced Topics in Plant Ecology
  - BIO 420 Marine Biology
  - BIO 421 Ecosys Ecolgy Biogeochem
  - BIO 422 Plant Diversity
  - BIO 426 Conservation Biology
  - BIO 427 Landscape Ecology and Landscape Ecology Laboratory
  - BIO 429 Aquatic Ecology and Aquatic Ecology Lab
  - BIO 431 The Biosphere
  - BIO 438 Animal Behavior
  - BIO 441 Invertebrate Zoology
  - BIO 444 Entomology
  - BIO 445 Disease Ecology
  - BIO 451 Vascular Plant Systematics and Vascular Plant Systematics Lab
  - BIO 456 Global Change
  - BIO 470 Vertebrate Zoology
  - BIO 480 Environmental Physiology
  - BIO 488 Essentials of Toxicology
  - CHE 205 Introductory Organic Chemistry
  - CHE 331 Quantitative Analysis
  - CHE 351 Organic Chemistry I
  - CHE 352 Organic Chemistry II
  - GES 305 Environmental Hazards Assessment
  - GES 312 Geomorphology of North America
  - GES 313 Natural Resource Regions of North America
  - GES 314 Physical Geography: Landscape Processes and Physical Geography Laboratory
  - GES 319 Weather and Climate and Climatology Laboratory
  - GES 328 The Water Planet
  - GES 330 Elements of Hydrology
  - GES 358 Geographic Information Systems
  - GES 359 Remote Sensing of Environment
  - GES 418 Biogeography
  - GES 419 Advanced Weather and Climate-Synoptic Climatology

### Equity and Society

- Select 6 credits from the following:
  - ATY 362 Methods in Cultural Anthropology
  - ATY 377 Disaster, Self, and Society
  - ATY 420 Economic Anthropology
  - ATY 426 Food and Culture in a Global Context
  - ATY 450 Environmental Anthropology
  - ATY 459 Anthropology of Global Water, Sanitation and Hygiene (WASH)
  - ATY 465 Medical Anthropology
  - ATY 469 Anthropology of Infectious Disease
  - CTR 444 Recreation, Parks, and Health
  - GES 302 Urban Geography: Sustainable Land Use
  - GES 303 World Population Problems
  - GES 304 Sustainable Transport and Mobility
  - GES 322 Research Methods in Spatial Science
  - GES 331 Sustainable Tourism and Transportation
  - GES 402 Sustainable Urban Planning in an Entrepreneurial Environment
  - GES 405 Sustainable Regional Planning
  - GES 415 National Parks and Protected Areas
  - GES 432 Geography of Livable Cities
  - HEA 307 Global Health
  - HEA 315 Epidemiology
  - HEA 316 Environmental Health
  - HIS 319 Sugar, Soccer, Samba: History of Brazil
  - HIS 323 American Indians and Nature
  - HIS 334 United States Environmental History
  - PCS 406 Environmental Justice
  - PSC 312 Environmental Law and Policy
  - PSC 313 Natural Resources Law and Policy
  - SOC 328 Social Movements
  - SOC 330 Urban Society
  - SOC 346 Population Problems
  - SOC 370 Environmental Sociology
  - SOC 373 Green Criminology
  - SOC 377 Disaster, Self, and Society
  - SOC 421 Sem in Populatn / Urbn Studies

### Development and Economics

- Select 6 credits from the following:
  - ATY 362 Methods in Cultural Anthropology
  - ATY 377 Disaster, Self, and Society
  - ATY 420 Economic Anthropology
  - ATY 426 Food and Culture in a Global Context
  - ATY 450 Environmental Anthropology
  - ATY 459 Anthropology of Global Water, Sanitation and Hygiene (WASH)
  - ATY 465 Medical Anthropology
  - ATY 469 Anthropology of Infectious Disease
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  - HEA 316 Environmental Health
  - HIS 319 Sugar, Soccer, Samba: History of Brazil
  - HIS 323 American Indians and Nature
  - HIS 334 United States Environmental History
  - PCS 406 Environmental Justice
BUS 130  Entrepreneurship in a Sustainable Global Environment
BUS 340  Social Entrepreneurship
ECO 100  Economics of a Global Sustainable Society
ENT 300  Ideas to Sustainable Opportunities: Feasibility Analysis
ENT 440  Experiences in Sustainable Entrepreneurship
HTM 200  Introduction to Sustainable Development
HTM 312  Hospitality Facilities Management
HTM 314  Sustainable Food and Craft Beverage
HTM 332  Sustainable Destination and Experience Management
HTM 335  Sustainable Tourism and Transportation

Ethics and Aesthetics  6
Select 6 credits from the following:
ARE 260  Art, Education, and Social Practice
ARH 359  Art and/as Social Justice
CST 420  Environmental Communication
ENG 290  Social Movement and Social Justice Rhetorics
ENG 373  American Romanticism
ENG 380  Literature and the Environment
IAR 124  Introduction to Sustainable Design
LLC 130  Global Green: Cultures of Production and/or Consumption
MUS 326  Music and Environment
PHI 261  Ethical Issues in Business
PHI 322  Philosophy of the Arts
PHI 338  Ethics and International Affairs
REL 250  Religious Traditions and Care of the Earth
VPA 324  The Arts as Social Change: Theory and Practice
WGS 374  Ecofeminism
WGS 375  Topics in Native American and Indigenous Studies

Free Electives  3
Select 3 credits from the following:
ATY 113  Engaging Culture
ATY 153  The Human Species & 153L and The Human Species: Laboratory
BIO 111  Principles of Biology I & 111L and Principles of Biology I Laboratory *
BIO 112  Principles of Biology II & 112L and Principles of Biology II Laboratory *
BIO 497  Internship in Biology
ECO 201  Principles of Microeconomics
ECO 202  Principles of Macroeconomics
ECO 300  The International Economy
ELC 375  Philosophy of Education
ENG 307  Public Advocacy and Argument
ENG 327  Writing for Professionals and Entrepreneurs
ENT 206  Start Something Globally Sustainable!
GES 163  North Carolina Environments
GES 205  Environmental Change: Its Nature and Impact
GES 366  Internship in Environment & Sustainability
GES 368  Individual Study in Environment & Sustainability
GES 450  Applied Physical Geography
GES 451  Seminar in Regional Geography
GES 493  Honors Work
HTM 201  Corporate Social Responsibility and Change Management
IAR 221  History and Theory of Design I
IAR 222  History and Theory of Design II
NTR 103  Introduction to Food Science
PHY 205  Conceptual Physics & 205L and Conceptual Physics Laboratory
PSC 210  Introduction to Health Policies
SOC 202  Social Problems in Global Context

* A grade of C- or higher is required in BIO 105/BIO 105L, BIO 111/BIO 111L, and BIO 112/BIO 112L.

Disciplinary Honors in Environment and Sustainability Studies
Requirements
• A minimum of 12 credit hours as defined below.
• UNC Greensboro cumulative GPA of 3.30 or better or, for transfer students, cumulative GPA of 3.30 or better from all prior institutions.

<table>
<thead>
<tr>
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<tr>
<td>HSS 490</td>
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<td>3-6</td>
</tr>
<tr>
<td>or GES 493</td>
<td>Honors Work</td>
<td></td>
</tr>
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</table>

6 credits of Honors course work in the major  6
3 credits of Honors course work in the major or another area  3

Recognition
Receive a Certificate of Disciplinary Honors in Environment and Sustainability Studies; have that accomplishment, along with the title of the Senior Honors Project, noted on the official transcript; and be recognized at a banquet held at the end of the spring semester.

Honors Advisor
Contact Aaron Allen at asallen@uncg.edu for further information and guidance about Honors in Environment and Sustainability Studies. To apply: http://honorscollege.uncg.edu/forms/disc-application.pdf