ENVIRONMENT AND SUSTAINABILITY, B.A.

Overall Requirements

• 120 credit hours, to include at least 36 credits at or above the 300 course level
• A minimum of 65 credits toward the major, comprised of core courses (37 credits) and concentration-specific options (28 credits).
• Only grades of C- or higher will count toward completion of the required core courses in the major as well as BIO 105/105L, BIO 111/111L, and BIO 112/112L used toward completion of the concentration requirements.

Degree Program Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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University Requirements (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies/)

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

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

Major Requirements

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Core Courses 37

**Geography, Environment, and Sustainability**

GES 103 Introduction to Earth Science & 103L and Earth Science Laboratory
GES 162 Introduction to Sustainability
GES 164 Introduction to Environment
GES 325 Introduction to Spatial Analysis
GES 270 Environment and Experience
GES 482 Topics in Ethics and Aesthetics
GES 484 Topics in Development and Economics
GES 486 Topics in Equity and Society
GES 488 Topics in Environmental Sciences

**Chemistry**

CHE 252 Chemistry and the Human Environment

**Philosophy**

PHI 363 Environmental Ethics

**Select 3 credits from the following GES courses** 3

GES 260 Sustainable Campus Operations
GES 367 Research in Environment & Sustainability
GES 462 Sustainability
GES 464 Environment

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 28 credits of Options and Electives 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.

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

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**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 420 Marine Biology
BIO 422 Plant Diversity
BIO 423 Landscape Ecology Laboratory
BIO 426 Conservation Biology
BIO 427 Landscape Ecology
BIO 429 Aquatic Ecology
BIO 431 The Biosphere
BIO 432 Aquatic Ecology Laboratory
BIO 438 Animal Behavior
BIO 441 Invertebrate Zoology
BIO 444 Entomology
BIO 451 Vascular Plant Systematics
BIO 470 Vertebrate Zoology
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 319 Weather and Climate & 319L and Climatology Laboratory
GES 312 Geomorphology of North America
GES 313 Natural Resource Regions of North America
GES 314 Physical Geography: Landscape Processes
GES 314L Physical Geography Laboratory
GES 328 The Water Planet
GES 330 Elements of Hydrology
GES 358 Geographic Information Systems
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>GES 359</td>
<td>Remote Sensing of Environment</td>
</tr>
<tr>
<td>GES 418</td>
<td>Biogeochemistry</td>
</tr>
<tr>
<td>GES 419</td>
<td>Advanced Weather and Climate-Synoptic Climatology</td>
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**Equity and Society**

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)
- 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 323  American Indians and Nature
- HIS 334  United States Environmental History
- PCS 406  Environmental Justice: Interdisciplinary Response for Sustainability
- 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  Seminar in Population and Urban Studies

**Development and Economics**

Select 3 credits from the following:

- BUS 130  Entrepreneurship in a Sustainable Global Environment
- BUS 340  Social Entrepreneurship
- ENT 440  Experiences in Sustainable Entrepreneurship
- ECO 100  Economics of a Global Sustainable Society
- ECO 201  Principles of Microeconomics
- ECO 202  Principles of Macroeconomics
- ECO 300  The International Economy
- ECO 307  Public Advocacy and Argument
- ECO 327  Writing for Professionals and Entrepreneurs
- ENT 206  Start Something 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 402  Sustainable Urban Planning in an Entrepreneurial Environment
- GES 450  Applied Physical Geography
- GES 451  Seminar in Regional Geography
- GES 453  Honors Work
- 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
- PHY 205L  Conceptual Physics Laboratory
- PHY 206  Conceptual Physics Laboratory
- PSC 210  Introduction to Health Policies
- SOC 202  Social Problems in Global Context
- STH 201  Corporate Social Responsibility and Change Management

**STH 332  Sustainable Destination and Experience Management**

**Ethics and Aesthetics**

Select 3 credits from the following:

- ARE 260  Art, Education, and Social Practice
- CST 420  Environmental Communication
- 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 338  Ethics and International Affairs
- PHI 361  Ethical Issues in Business
- PHI 322  Philosophy of the Arts
- 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**

Select 6 credits from the following:

- ATY 113  Introduction to Cultural Anthropology
- ATY 153  Introduction to Biological Anthropology
- & 153L  and Introduction to Biological Anthropology 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 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 453  Honors Work
- 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
- PHY 205L  Conceptual Physics Laboratory
- PHY 206  Conceptual Physics Laboratory
- PSC 210  Introduction to Health Policies
- SOC 202  Social Problems in Global Context
- STH 201  Corporate Social Responsibility and Change Management
**Equity, Development, & Ethics Concentration Requirements**

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

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BIO 105 &amp; 105L</td>
<td>Major Concepts of Biology and Major Concepts of Biology Laboratory *</td>
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</tr>
<tr>
<td>BIO 112 &amp; 112L</td>
<td>Principles of Biology II and Principles of Biology II Laboratory *</td>
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**Environmental Science** 3

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 420 Marine Biology
- BIO 422 Plant Diversity
- BIO 426 Conservation Biology
- BIO 427 Landscape Ecology & Landscape Ecology Laboratory
- BIO 429 Aquatic Ecology
- BIO 431 The Biosphere
- BIO 432 Aquatic Ecology Laboratory
- BIO 438 Animal Behavior
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- BIO 444 Entomology
- BIO 451 Vascular Plant Systematics
- BIO 470 Vertebrate Zoology
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- 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** 6

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
- 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 323 American Indians and Nature
- HIS 334 United States Environmental History
- PCS 406 Environmental Justice: Interdisciplinary Response for Sustainability
- 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 Seminar in Population and Urban Studies

**Development and Economics** 6

Select 6 credits from the following:

- BUS 130 Entrepreneurship in a Sustainable Global Environment
- BUS 340 Social Entrepreneurship
- ENT 440 Experiences in Sustainable Entrepreneurship
- ECO 100 Economics of a Global Sustainable Society
- STH 200 Introduction to Sustainable Development
- STH 311 Sustainable Food and Craft Beverage
- STH 312 Hospitality Facilities Management
- STH 331 Sustainable Tourism and Transportation
- STH 332 Sustainable Destination and Experience Management

**Ethics and Aesthetics** 6

Select 6 credits from the following:

- ARE 260 Art, Education, and Social Practice
- CST 420 Environmental Communication
Disciplinary Honors in Environment and Sustainability

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>
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<tr>
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<tbody>
<tr>
<td>HSS 490</td>
<td>Senior Honors Project</td>
<td>3</td>
</tr>
<tr>
<td>or GES 493</td>
<td>Honors Work</td>
<td>3</td>
</tr>
<tr>
<td>6 credits of Honors course work in the major</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3 credits of Honors course work in the major or another area</td>
<td>3</td>
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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