**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**

### University Requirements
- [University Requirements](https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies)
- [General Education Core Requirements (GEC)](https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies/general-education-program/#generaleducationcorerequirementstext)
- [College of Arts and Sciences Additional Requirements (LEC)](https://catalog.uncg.edu/arts-sciences/#additionalundergraduaterequirementstext)

### Major Requirements

#### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>GES 103 &amp; 103L</td>
<td>Introduction to Earth Science and Earth Science Laboratory</td>
<td>3</td>
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<tr>
<td>GES 162</td>
<td>Introduction to Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GES 164</td>
<td>Introduction to Environment</td>
<td>3</td>
</tr>
<tr>
<td>GES 325</td>
<td>Introduction to Spatial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GES 370</td>
<td>Environment and Experience</td>
<td>3</td>
</tr>
<tr>
<td>GES 382</td>
<td>Topics in Ethics &amp; Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>GES 384</td>
<td>Topics in Development &amp; Economics</td>
<td>3</td>
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<tr>
<td>GES 386</td>
<td>Topics in Equity and Society</td>
<td>3</td>
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<tr>
<td>GES 388</td>
<td>Topics in Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CHE 252</td>
<td>Chemistry and the Human Environment</td>
<td>3</td>
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<tr>
<td>PHI 363</td>
<td>Environmental Ethics</td>
<td>3</td>
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</tbody>
</table>

#### Geography, Environment, and Sustainability
- Select 3 credits from the following GES courses
- GES 360 Sustainable Campus Operations
- GES 362 Seminar in Sustainability
- GES 364 Seminar in Environment
- GES 400 Senior Seminar in Environment & Sustainability

**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 111/111L and BIO 112/112L.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIO 301</td>
<td>Principles of Ecology</td>
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<tr>
<td>BIO 315</td>
<td>Ecology and Evolution Laboratory</td>
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<tr>
<td>BIO 361</td>
<td>Biology and Conservation of Sea Turtles</td>
<td>3</td>
</tr>
<tr>
<td>BIO 420</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 422</td>
<td>Plant Diversity</td>
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</tr>
<tr>
<td>BIO 423</td>
<td>Landscape Ecology Laboratory</td>
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</tr>
<tr>
<td>BIO 426</td>
<td>Conservation Biology</td>
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</tr>
<tr>
<td>BIO 427</td>
<td>Landscape Ecology</td>
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<tr>
<td>BIO 429</td>
<td>Aquatic Ecology</td>
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<tr>
<td>BIO 431</td>
<td>The Biosphere</td>
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<td>BIO 432</td>
<td>Aquatic Ecology Lab</td>
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<td>BIO 438</td>
<td>Animal Behavior</td>
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<tr>
<td>BIO 441</td>
<td>Invertebrate Zoology</td>
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<tr>
<td>BIO 444</td>
<td>Entomology</td>
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<tr>
<td>BIO 451</td>
<td>Vascular Plant Systematics</td>
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<tr>
<td>BIO 470</td>
<td>Vertebrate Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 488</td>
<td>Essentials of Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>CHE 205</td>
<td>Introductory Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHE 331</td>
<td>Quantitative Analysis</td>
<td>3</td>
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<tr>
<td>CHE 351</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 352</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>GES 305</td>
<td>Environmental Hazards Assessment</td>
<td>3</td>
</tr>
<tr>
<td>GES 319 &amp; 319L</td>
<td>Weather and Climate and Climatology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GES 312</td>
<td>Geomorphology of North America</td>
<td>3</td>
</tr>
<tr>
<td>GES 313</td>
<td>Natural Resource Regions of North America</td>
<td>3</td>
</tr>
<tr>
<td>GES 314</td>
<td>Physical Geography: Landscape Processes</td>
<td>3</td>
</tr>
<tr>
<td>GES 314L</td>
<td>Physical Geography Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GES 328</td>
<td>The Water Planet</td>
<td>3</td>
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<tr>
<td>GES 330</td>
<td>Elements of Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GES 358</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GES 359</td>
<td>Remote Sensing of Environment</td>
<td>3</td>
</tr>
</tbody>
</table>
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 465  Medical Anthropology
GES 302  Urban Geography, Land Use
GES 303  World Population Problems
GES 304  Introduction to Transportation Analysis
GES 322  Research Methods in Geography
GES 331  Sustainable Tourism and Transportation
GES 402  Sustainable Urban Planning in an Entrepreneurial Environment
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
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
STH 200  Introduction to Sustainable Development
STH 311  Sustainable Food and Craft Beverage
STH 312  Greening Hotel Facilities
STH 331  Sustainable Tourism and Transportation
STH 332  Sustainable Destination and Experience Management

Ethics and Aesthetics  3
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 Issues in Business
VPA 324  The Arts as Social Change: Theory and Practice
WGS 374  Ecofeminism
WGS 375  Topics in Native American and Indigenous Studies

Free Electives  6
Select 3 credits from the following:
ATY 213  Introduction to Cultural Anthropology
ATY 253  Introduction to Biological Anthropology
ATY 253L  Introduction to Biological Anthropology Laboratory
BIO 111  Principles of Biology I
BIO 111L  Principles of Biology I Laboratory
BIO 112  Principles of Biology II
BIO 112L  Principles of Biology II Laboratory
BIO 197  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
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
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
PSC 310  Introduction to Public Policy
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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BUS 130</td>
<td>Entrepreneurship in a Sustainable Global Environment</td>
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<tr>
<td>BUS 340</td>
<td>Social Entrepreneurship</td>
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<tr>
<td>ECO 100</td>
<td>Economics of a Global Sustainable Society</td>
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<tr>
<td>STH 200</td>
<td>Introduction to Sustainable Development</td>
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<tr>
<td>STH 311</td>
<td>Sustainable Food and Craft Beverage</td>
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<td>STH 312</td>
<td>Greening Hotel Facilities</td>
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<tr>
<td>STH 331</td>
<td>Sustainable Tourism and Transportation</td>
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</tr>
<tr>
<td>STH 332</td>
<td>Sustainable Destination and Experience Management</td>
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<tr>
<td>ARE 260</td>
<td>Art, Education, and Social Practice</td>
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<td>CST 420</td>
<td>Environmental Communication</td>
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<tr>
<td>ENG 380</td>
<td>Literature and the Environment</td>
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<tr>
<td>IAR 124</td>
<td>Introduction to Sustainable Design</td>
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<td>BIO 105</td>
<td>Major Concepts of Biology</td>
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<tr>
<td>&amp; 105L</td>
<td>Major Concepts of Biology Laboratory</td>
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</table>
BIO 112 & 112L Principles of Biology II and Principles of Biology II Laboratory

Environment and Sustainability, B.A.

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 423 Landscape Ecology Laboratory
- BIO 426 Conservation Biology
- BIO 427 Landscape Ecology
- BIO 429 Aquatic Ecology
- BIO 431 The Biosphere
- BIO 432 Aquatic Ecology Lab
- 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
- 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 465 Medical Anthropology
- GES 302 Urban Geography: Land Use
- GES 303 World Population Problems
- GES 304 Introduction to Transportation Analysis
- GES 322 Research Methods in Geography
- GES 331 Sustainable Tourism and Transportation
- GES 402 Sustainable Urban Planning in an Entrepreneurial Environment
- 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
- 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 6

Select 6 credits from the following:
- BUS 130 Entrepreneurship in a Sustainable Global Environment
- BUS 340 Social Entrepreneurship
- ECO 100 Economics of a Global Sustainable Society
- STH 200 Introduction to Sustainable Development
- STH 311 Sustainable Food and Craft Beverage
- STH 312 Greening Hotel Facilities
- 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
- 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 3

Select 3 credits from the following:
- ATY 213 Introduction to Cultural Anthropology
- ATY 253 Introduction to Biological Anthropology
- ATY 253L Introduction to Biological Anthropology Laboratory
- BIO 111 Principles of Biology I
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>
<thead>
<tr>
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<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Required</td>
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<td>3-6</td>
</tr>
<tr>
<td>HSS 490</td>
<td>Senior Honors Project</td>
<td></td>
</tr>
<tr>
<td>or GES 493</td>
<td>Honors Work</td>
<td></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>
<td></td>
</tr>
</tbody>
</table>

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