

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 political science, history and sociology, to art, design and English, and to the natural and 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

Code	Title	Credit Hours
	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/#additionalundergraduateresultstext)	

Major Requirements

Code	Title	Credit Hours
Core Courses		41
<i>Geography, Environment, and Sustainability</i>		
GES 103 & 103L	Introduction to Earth Science and Earth Science Laboratory	
GES 162	Introduction to Environment & Sustainability	
GES 164		
GES 270	Environment and Experience	
GES 325	Introduction to Spatial Analysis	
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	
<i>Chemistry</i>		
CHE 252	Chemistry and the Human Environment	
<i>Mathematics</i>		
MAT 183	Mathematics for the Life Sciences	
<i>Philosophy</i>		
PHI 363	Environmental Ethics	
<i>Select 3 credits from the following GES courses:</i>		
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 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.

Code	Title	Credit Hours
Biology		8
BIO 111 & 111L	Principles of Biology I and Principles of Biology I Laboratory *	
BIO 112 & 112L	Principles of Biology II and Principles of Biology II Laboratory *	
Environmental Science		13
<i>Select 13 credits from the following:</i>		
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 & BIO 423	Landscape Ecology and
BIO 429 & BIO 432	Aquatic Ecology and
BIO 431	The Biosphere
BIO 438	Animal Behavior
BIO 441	Invertebrate Zoology
BIO 444	Entomology
BIO 445	Disease Ecology
BIO 451 & 451L	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 & 314L	Physical Geography: Landscape Processes and Physical Geography Laboratory
GES 319 & 319L	Weather and Climate and Climatology Laboratory
GES 328	The Water Planet
GES 330	Elements of Hydrology
GES 358	Geographic Information Systems
GES 359	Earth from Space
GES 418	Biogeography
GES 419	Advanced Weather and Climate-Synoptic Climatology
Equity and Society 3	
<i>Select 3 credits from the following:</i>	
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 Populatr / Urbn Studies
Development and Economics 3	
<i>Select 3 credits from the following:</i>	
BUS 130	
BUS 340	
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	
<i>Select 3 credits from the following:</i>	
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

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

Equity, Development, & Ethics Concentration Requirements

Code	Title	Credit Hours
Biology		4
<i>Select 4 credits from the following, with a minimum grade of C- in both lecture and lab:</i>		
BIO 105 & 105L	Major Concepts of Biology and Major Concepts of Biology Laboratory *	
BIO 112 & 112L	Principles of Biology II and Principles of Biology II Laboratory *	
Environmental Science		3
<i>Select 3 credits from the following:</i>		
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 Ecolgy Biogeochem	
BIO 422	Plant Diversity	
BIO 426	Conservation Biology	
BIO 427 & BIO 423	Landscape Ecology and	
BIO 429 & BIO 432	Aquatic Ecology and	
BIO 431	The Biosphere	
BIO 438	Animal Behavior	
BIO 441	Invertebrate Zoology	
BIO 444	Entomology	
BIO 445	Disease Ecology	
BIO 451 & 451L	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	

& 314L	and Physical Geography Laboratory
GES 319 & 319L	Weather and Climate and Climatology Laboratory
GES 328	The Water Planet
GES 330	Elements of Hydrology
GES 358	Geographic Information Systems
GES 359	Earth from Space
GES 418	Biogeography
GES 419	Advanced Weather and Climate-Synoptic Climatology

Equity and Society 6

<i>Select 6 credits from the following:</i>	
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 Populatr / Urbn Studies
Development and Economics 6	
<i>Select 6 credits from the following:</i>	
BUS 130	
BUS 340	
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 & 153L	The Human Species and The Human Species: Laboratory
BIO 111 & 111L	Principles of Biology I and Principles of Biology I Laboratory *
BIO 112 & 112L	Principles of Biology II 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 & 205L	Conceptual Physics 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 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.

Code	Title	Credit Hours
Required		3-6
HSS 490	Senior Honors Project	
or GES 493	Honors Work	
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>