

# Environmental Studies BA

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## Overview

The Department of Geography and Urban Studies offers a Bachelor of Arts in Environmental Studies, a minor in Environmental Studies and a certificate in Geographic Information Systems (GIS). Many of our students choose to complete a double major, a minor in a complementary discipline, and/or the GIS certificate.

The **Bachelor of Arts in Environmental Studies** focuses on the department's four themes of globalization, sustainability, social justice and geographic methods that are increasingly central to understanding the serious environmental challenges we face. Environmental Studies students learn geographic theory and methods that examine the complexity of human-environmental interactions; the increasing interconnectedness of the global economy, environment, culture and politics; and the importance of place and context in people's daily lives.

Additionally, the Environmental Studies program introduces students to environmental processes, contemporary environmental issues and policies, geospatial technologies including Geographic Information Systems (GIS), and qualitative and quantitative social science research methods.

The Environmental Studies gateway courses are designed to develop the theoretical and methodological frameworks and tools necessary to understand the relationships between people and their environment as they interact through local and global connections. In required courses and electives, students examine environmental policy and the role of political institutions; the geography of natural resources; environmental decision-making; natural hazards and risk assessment; environmental ethics and legal issues; health and the environment; environmental justice; food access; etc. The electives give students the opportunity to develop an area of emphasis around their particular interests. Students focus on an individualized research project in their Senior Research Seminar. Each student's program is developed with a departmental advisor to suit individual interests and is designed to maximize educational and career opportunities. We encourage Environmental Studies students to incorporate a semester abroad and/or an internship into their plan of study.

The objective of the Bachelor of Arts in Environmental Studies is to provide students with an understanding of:

- How space, place, and scale shape the interaction between environment and society;
- Critical thinking skills developed through examining a range of analytical approaches to investigate geographic, urban, and environmental processes;
- Contemporary explanatory frameworks in Geography and Urban Studies such as political ecology, feminist and poststructuralist theory, and development theory;
- The application of information technology skills to analyze spatial and temporal information, processes, and patterns through integrative research experiences;
- Practical considerations of community and environmental organizational settings at the local and regional scales.

The Environmental Studies major examines the nature, causes and consequences of human interactions with the environment. Students in Environmental Studies are equipped with the intellectual and methodological tools to understand and address the crucial environmental issues of our time: sustainability, health, climate change, food access, natural resource consumption, and environmental justice.

## Themes

The department has identified several informal areas of concentration to assist students in making course selections. These do not constitute formal tracks but rather provide guidelines for developing a personalized curriculum. Students can focus on the following themes:

- Globalization
- Social Justice
- Urban Sustainability
- Geographic Methods

**Campus Location:** Main

**Program Code:** LA-ENST-BA

## Distinction in Major

Environmental Studies majors may graduate with distinction in major with a 3.5 in Environmental Studies coursework and a 3.0 GPA overall.

## Career Preparation

Environmental Studies graduates are especially competitive in the job market because of their technical and critical thinking skills, a sense of the complexity of interactions between humans and the environment, and their ability to synthesize information at a variety of scales. Students have the opportunity to gain technical skills in spatial statistics, Geographic Information Systems (GIS), cartographic production and design, and qualitative methods that are highly valued by employers. Our graduates find employment with nonprofits (domestic and international), planning or government

agencies, consulting firms, and citizens' organizations. Many also go on to graduate programs in geography, planning, environmental studies, law and other fields. The Department of Labor expects that employment for geographers, planners and other geographic professions will grow at a rate of twenty percent or more for the next decade.

## Double-Counting Across Curricula

Many students elect to take a combination of the Environmental Studies major or minor and the Geography and Urban Studies major or minor, as they are complementary programs.

The ONLY courses that can double-count between the Environmental Studies and the Geography and Urban Studies majors are: ENST 3161 Spatial Statistics/GUS 3161 Spatial Statistics; ENST 2097 Research Design in Environmental Studies/GUS 2197 Research Design in Geography and Urban Studies; ENST 3062 Fundamentals of Geographic Information Systems/GUS 3062 Fundamentals of Geographic Information Systems. When used for the major in either program, these courses may not be used to fulfill the minor elective requirements of the other program. Note: GUS 4198 Senior Seminar in Geography and Urban Studies and ENST 4198 Senior Research Seminar are NOT cross-listed seminars. Anyone pursuing a double major in Geography and Urban Studies and Environmental Studies must take both capstone courses.

Students are not permitted to combine a major or minor in Environmental Studies and a major or minor in Environmental Science in the College of Science and Technology.

## Internships

We encourage students to apply their skills and knowledge in a credit-bearing internship that utilizes their academic training. Assignments at planning, social service, environmental and other agencies, as well as at firms that specialize in mapping and geographic data analysis, have helped in securing employment opportunities after graduation. The internship is complemented by a seminar in which students reflect on their experiences. Contact Dr. Max Andrucki for more information on this opportunity.

## Contact Information

Melissa Gilbert, Geography and Urban Studies Chair  
309 Gladfelter Hall  
215-204-4429  
mgilbert@temple.edu

Kevin Henry, Undergraduate Chair  
313B Gladfelter Hall  
215-204-2961  
kevinahenry@temple.edu

Liz Janczewski, Student Services Coordinator  
338A Gladfelter Hall  
215-204-3386  
liz.janczewski@temple.edu

Max Andrucki, Internship Coordinator  
325B Gladfelter Hall  
215-204-1233  
max.andrucki@temple.edu

Advising  
guses@temple.edu

Learn more about the Bachelor of Arts in Environmental Studies.

*These requirements are for students who matriculated in academic year 2023-2024. Students who matriculated prior to fall 2023 should refer to the Archives to view the requirements for their Bulletin year.*

## Summary of Degree Requirements

### University Requirements

- MATH 0701 (4 s.h.) and/or ENG 0701 (4 s.h.), if required by placement testing.
- All Temple students must take a minimum of two writing-intensive courses as part of the major. The specific courses required for this major are ENST 2097 and ENST 4198.
- Students must complete requirements of the General Education (GenEd) Program. See the General Education section of the *Undergraduate Bulletin* for more details.

## College of Liberal Arts Requirements

- Completion of a minimum of 123 credits, including:
  - 90 credits in CLA/CST courses;
  - 45 credits of which must be at the upper level (numbered 2000-4999).
    - For **Social Science majors**, 6 upper level credits (numbered 2000-4999) must be taken in Humanities Subject Areas: Arabic, Chinese, English, French, German, Greek (Ancient), Greek and Roman Classics, Hebrew, Hindi, Italian, Japanese, Latin, Philosophy, Religion, Russian, and Spanish in the College of Liberal Arts, Art History in the Tyler School of Art and Architecture, or any department in the College of Science and Technology.
  - A minimum GPA of 2.0, cumulatively, in CLA/CST coursework, and in the major.
  - Only courses in which a student receives a grade of at least C- can satisfy GenEd, major, minor, or CLA Foreign Language and Global Studies requirements.
- **Professional Development Requirement**
  - All students in the College of Liberal Arts are required to take a 1 credit seminar in professional development. CLA 1002 Professional Development for Liberal Arts Majors is the appropriate course option for this major. Other courses that fulfill this requirement may be found on the CLA College Requirements page. Only one course in this category may count towards graduation.
- **Foreign Language/Global Studies Requirements:**
  - All students must complete or test out of the first and second levels of a foreign language - these courses are numbered 1001 and 1002;
  - All students must complete at least one course from the GenEd Global/World Society category; and
  - All Bachelor of Arts students must complete one of the following options:
    - Third semester of a foreign language;
    - Demonstrated proficiency beyond the third semester in a foreign language (placement exam or certification from the language department);
    - Take one Global Studies course from the list on the CLA College Requirements page;
    - Study Abroad at an approved program; or
    - Take a second General Education Global/World Society course.
- **Notes on Foreign Language Study**
  - The third level of language is numbered 1003 in French, Spanish, and Portuguese and numbered 2001 in all other foreign language subjects.
  - Students are strongly encouraged to take the third level of a foreign language as it is the minimum required for election to the prestigious honor society *Phi Beta Kappa*. (Taking the course does not guarantee admission but not taking it guarantees exclusion.)
  - See the College of Liberal Arts Policies section of this *Bulletin* for more information on the Foreign Language Placement, Regression in Coursework, and guidelines for students' other experiences with language.

**General Electives** are typically one-third of a student's program of study and can be focused on a second major, a minor, or towards some other personal enrichment or professional goals. See an academic advisor for assistance in developing an academic plan for these courses.

## Major Requirements (40-41 credits in Environmental Studies and related coursework)

Code	Title	Credit Hours
<b>Gateway courses</b>		
ENST 2001	Environment and Society	3
ENST 2002	Physical Geography	4
<b>Research Methods courses</b>		
ENST 2097	Research Design in Environmental Studies	3
ENST 3062	Fundamentals of Geographic Information Systems	3
ENST 3161	Spatial Statistics	3
<b>Research Methods elective</b>		
Select one of the following:		
ENST 3061	Fundamentals of Cartography	3
ENST 3063	Environmental Remote Sensing	3
ENST 3064	Qualitative Methods	3
ENST 3068	Environmental Impact Assessment	3
ENST 4066	Environmental GIS	3
<b>Advanced Environmental Studies courses:</b>		
ENST 3004	Geography of Natural Resources	3
ENST 4198	Senior Research Seminar	3

**Electives**

Select three upper-level courses in ENST numbered 2003-4999. <sup>1</sup>	9
Select one ENST course numbered 0800-4999 <sup>2</sup>	3
Select one course numbered 2003-4999 in ENST or from the approved electives list below.	3-4

**Total Credit Hours****40-41**

1

No electives may double-count between the Environmental Studies major and either the Geography & Urban Studies major or minor.

2

One General Education course taken in Environmental Studies may count towards the major.

**Environmental Studies Approved (non-ENST) Electives List**

Students may use one elective from the list below toward the Environmental Studies Major to fulfill the Approved Elective requirement. This requirement can also be fulfilled with any ENST elective numbered 2003+.

Note: Upper-level Science and Liberal Arts courses from this list can be used to satisfy the CLA 45 credit upper-level distribution requirement, but not all courses below are offered within the College of Liberal Arts or College of Science and Technology. Please consult with a CLA Academic Advisor.

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
ANTH 2705	Introduction to Evolutionary Anthropology	4
ANTH 3774	Environmental Physiology and Health	3
BIOL 2227	Principles of Ecology	3
BIOL 3244	Experimental Marine Biology	4
BIOL 3245	Marine Ecology	4
BIOL 3316	Tropical Marine Biology	4
BIOL 3336	Freshwater Ecology	4
BIOL 4327	Biological Impacts of Global Climate Change	3
BOT 1112	Plant Ecology <sup>1</sup>	3
CEE 4531	Life Cycle Assessment and Carbon Footprinting	3
CTRP 2114	Urban Form and Design	3
CTRP 2213	Environmental Planning	3
CTRP 3256	Sustainable Community Design and Development	3
ECON 3513	Economics of State and Local Governments	3
ECON 3512	Public Finance	3
EES 2096	Climate Change: Oceans To Atmosphere	4
EES 2021	Sedimentary Environments	4
EES 2061	Introduction to Geochemistry	4
EES 3011	Remote Sensing and GIS	4
EES 3021	Groundwater Hydrology	4
ENVH 2102	Environmental Health	3
ENVT 4761	Environmental Regulations	3
HORT 2114	Soils	3
HORT 2334	Food Crops I	3
HORT 2353	Food Crops II	3
HORT 2552	Trees in the Urban Landscape	2
HORT 2575	Introduction to Public Horticulture	3
HORT 3514	Landscape Restoration	3
JRN 3253	Health and Environmental Writing	3
LARC 2144	Landscape Architecture Design Studio II	6
LARC 2496	Landscape Traditions	3
LARC 2758	Summer Field Ecology	3

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Note: Only one course numbered below 1999 can count for the electives requirement.

## Suggested Academic Plan

### Bachelor of Arts in Environmental Studies

#### Suggested Plan for New Students Starting in the 2023-2024 Academic Year

Year 1		Credit Hours
<b>Fall</b>		
ENG 0802	Analytical Reading and Writing	4
or ENG 0812	or Analytical Reading and Writing: ESL	
or ENG 0902	or Honors Writing About Literature	
GenEd Quantitative Literacy Course <sup>GQ</sup>		4
Foreign Language 1001 - first level		4
GenEd Breadth Course		3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
IH 0851	Intellectual Heritage I: The Good Life	3
or IH 0951	or Honors Intellectual Heritage I: The Good Life	
Foreign Language 1002 - second level		4
GenEd Breadth Course		3
GenEd Breadth Course		3
GenEd Breadth Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
IH 0852	Intellectual Heritage II: The Common Good	3
or IH 0952	or Honors Intellectual Heritage II: The Common Good	
CLA/CST 0800-4999 Elective		3
ENST 2001	Environment and Society	3
GenEd Breadth Course		3
Select one of the following:		3
Foreign Language - third level		
GenEd World Society Course		
Internationally Focused Course From Approved List		
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
ENST 2002	Physical Geography	4
ENST 2097	Research Design in Environmental Studies	3
CLA 1002	Professional Development for Liberal Arts Majors	1
GenEd Breadth Course		3
CLA/CST 0800-4999 Elective		4
<b>Credit Hours</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
ENST 3062	Fundamentals of Geographic Information Systems	3
ENST 3004	Geography of Natural Resources	3
ENST Major Elective 0800-4999		3
GenEd Breadth		3
CLA/CST 2000+ Humanities/CST Course		3
One 0800-4999 Elective in Any School or College		2
<b>Credit Hours</b>		<b>17</b>

<b>Spring</b>		
ENST 3161	Spatial Statistics	3
ENST Research Methods Course (from list)		3
ENST Major Elective 2003-4999		3
CLA/CST 2000+ Humanities/CST Course		3
CLA/CST 0800-4999 Elective		3
<b>Credit Hours</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
CLA/CST 2000+ Electives		5
ENST Major Electives 2003-4999		6
ENST Major Elective 2003-4999 or Elective from Approved List (see major description)		3
<b>Credit Hours</b>		<b>14</b>
<b>Spring</b>		
ENST 4198	Senior Research Seminar	3
CLA/CST 0800-4999 Electives		13
<b>Credit Hours</b>		<b>16</b>
<b>Total Credit Hours</b>		<b>123</b>