Environmental Humanities

Major and Minor in Environmental Humanities
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Environmental Humanities (EHM)
The Environmental Humanities major, leading to a Bachelor of Arts degree, draws together a range of disciplines to explore human understanding and interpretation of nature. The curriculum integrates disciplines from social sciences and the humanities including: writing, literature, philosophy, history, anthropology, archaeology, and art and architectural history.
The major prepares students to lead efforts to revitalize public understanding of the natural world through nature education, museum work, community organizing, literacy education, advocacy, business, writing and the arts. They may also choose to pursue advanced degrees in literature, journalism, education, social work, the arts, the social sciences and law.
The major builds on the interdisciplinary sustainability core curriculum. Students will enroll in major-specific courses in their junior and senior year. As part of the degree requirements, students will work in teams with students enrolled in related majors to solve problems collaboratively. Students are encouraged to take advantage of local and international independent research opportunities, internships and field camps to gain real-world experience.

Major and Minor in Environmental Humanities (EHM)
Requirements for the Major in Environmental Humanities

A. Required Foundation Courses for Major (30 credits)

- AMS 102 Elements of Statistics
- ANT 102 What Makes Us Human?
- SUS 202 Introduction to Environmental Humanities (formerly offered as EHM 202)
- GSS 105 Introduction to Maps and Mapping
- POL 102 Introduction to American Government
- SUS 111 Introduction to Sustainability (formerly offered as SBC 111) or ENS 101 Prospects for Planet Earth
- SUS 201 Systems and Models (formerly offered as SBC 201)
- SUS 203 Critical Analysis (formerly offered as SBC 203)
- Two of the following:
  - ATM 201 Introduction to Climate and Climate Change
  - BIO 113 General Ecology
  - BIO 115 Evolution and Society
  - CHE/ENV 115 Chemistry, Environment and Life (Note: CHE 115, 129, 131, 141, or 152 may be substituted for CHE/ENV 115)
  - MAR 101 Long Island Sound Science and Use
  - MAR 104 Oceanography
  - SUS 118 Introduction to the Natural History of Long Island (formerly offered as EHM 118)

B. Core Courses (12-13 credits)

- SUS 301 Technical Writing and Communication (formerly offered as CSK 302)
- SUS 305 Collective Action and Advocacy (formerly offered as CSK 305)
- ENV 301 Sustainability of the Long Island Pine Barrens or SBC 401 Integrative Collaborative Systems Studies
- GSS 313/314 GIS Design and Applications I/GIS Laboratory or GIS 317 Geospatial Narratives

C. Upper-Division Course Groups (24 credits)

Group 1: Natural Sciences

Choose one of the following:

- ENV 304 Global Environmental Change
- GEO 313 Understanding Water Resources for the 21st Century
- MAR 392 Waste Management Issues

Students are required to complete 21 credits total from the courses of Groups 2, 3, and 4. Select one course from each of Groups 2 and 3 and two courses from Group 4. The remaining three courses may be selected from any one area or spread across areas as is most relevant to
the student. With the permission of the faculty advisor, students may do an independent study or research (SUS 487, SUS 488, or ANP 487) in place of 3 credits in groups 2, 3, or 4.

Other classes may be substituted with permission of undergraduate director.

**Group 2: Writing and Literature**

- SUS 320 Utopia and Dystopia in the Environment in Literature and Culture (formerly offered as EHM 321)
- SUS 328 Ecofeminism, Lit, and Film (formerly offered as EHM 322)
- SUS 321 Ecology and Evolution in American Literature (formerly offered as SBC 321)
- SUS 325 Environmental Writing and the Media (formerly offered as SBC 325)
- SUS 350 Contemporary Topics in Sustainability (SUS 350 is a topics course, and may be applied to Groups 2, 3, or 4 with permission.)

**Group 3: Social Sciences**

- AFS 374 Environment and Development in African History
- SUS 314 Civilizations and Collapse (formerly offered as EHM 314)
- SUS 315 Ethnographic Field Methods (formerly offered as EHM 315)
- SUS 323 Environmental Justice (formerly offered as EHM 323)
- SUS 386 The Maya (formerly offered as EHM 386)
- ENS 333 Environmental Law
- SUS 317 American Environmental History (formerly offered as SBC 307)
- SUS 318 American Environmental Politics (formerly offered as SBC 308)
- SUS 309 Global Environmental Politics (formerly offered as SBC 309)
- SUS 343 Age of the Anthropocene
- SUS 350 Contemporary Topics in Sustainability (SUS 350 is a topics course, and may be applied to Groups 2, 3, or 4 with permission.)

**Group 4: Digital Skills for the Humanities**

- SUS 117 Design and Drawing (formerly offered as SBC 117)
- SUS 329 Environmental Film, Media, Arts (formerly offered as EHM 325)
- SUS 350 Contemporary Topics in Sustainability (SUS 350 is a topics course, and may be applied to Groups 2, 3, or 4 with permission.)

**Optional Study Abroad Experience (4-6 credits, may be taken to apply to Groups 2, 3, or 4 with permission)**

- ANP 307 Comparing Ecosystems in Madagascar
- ANP 310 Environments, Ecosystems and Evolution: Evidence from the Turkana Basin
- ANP 326 Lemurs of Madagascar
- ANP 391 Ecosystem Diversity and Evolution
- SUS 316 Cuba and Sustainability (formerly offered as EHM 316)

**D. Upper-Division Writing Requirement**

Proficiency in writing, oral communication, and computer literacy will be encouraged in all students. In addition to SUS 301, these skills will be developed within the context of other formal coursework and no additional credits are required. To meet the upper-division writing requirement, students must submit two five-page typed papers with a letter grade of B+ or better from any 300-level or 400-level course in the major to the director of the EHM Undergraduate Program.

Students should consult with the department advisor to ensure that their plan for completing the Upper Division Writing Requirement is consistent with university graduation requirements for General Education. Students completing the Stony Brook Curriculum (SBC) must complete a course that satisfies the "Write Effectively within One's Discipline" (WRTD) learning objective to graduate. The Upper Division Writing Requirement is consistent in most cases with the SBC learning outcomes for WRTD.

**Note:**

No more than one course (4 credits maximum) with a passing grade lower than C can be credited towards the major. Course taken with the Pass/NC option may not be applied to the major.

**Study Abroad**

Stony Brook University offers study abroad experiences that are focused on issues of sustainability in Costa Rica, Madagascar, and the Turkana Basin (Kenya). While issues of climate change, water and energy security, sustainable agriculture, environmental justice, sustainable economic development, conservation of unique and threatened ecosystems, population growth, and human health are important everywhere, viewing these issues through the lens of a different place and a different culture provides a valuable perspective. Students are encouraged to participate in study abroad experiences and to talk with their major director to determine how study abroad coursework can be used to fulfill some requirements for their major.

**Minor in Environmental Humanities (EHM)**
The Environmental Humanities minor is intended for students who seek to complement their chosen major with a foundation in the humanistic aspects of environmental studies and develop skills in one of Environmental Humanities core areas of study.

Requirements for the Minor in Environmental Humanities (EHM)

At least 12 credits applied to the minor may not be applied to any major or other minor within the Sustainability Studies Program or the School of Marine and Atmospheric Sciences. No more than one three-credit course in the minor may be taken under the Pass/No Credit option. All upper-division courses offered for the minor must be passed with a letter grade of C or higher. Completion of the minor requires 21 credits.

Declaration of the Minor

Students should declare the Environmental Humanities minor no later than the middle of their junior year, at which time they should consult with the minor coordinator or undergraduate director and plan their course of study for fulfillment of the requirements.

A. Required courses (12 credits)

- SUS 111 Introduction to Sustainability Studies (formerly offered as SBC 111) or ENS 101 Prospects for Planet Earth
- SUS 202 Introduction to Environmental Humanities (formerly offered as EHM 202)
- SUS 203 Interpretation and Critical Analysis (formerly offered as SBC 203)

One of the following courses:

- ATM 201 Introduction to Climate Change
- BIO 113 General Ecology
- BIO 115 Evolution and Society
- ENV 115 Chemistry, Life, Environment (Note: CHE 115, 129, 131, 141, or 152 may be substituted for CHE/ENV 115)
- MAR 101 Long Island Sound: Science and Use
- MAR 104 Oceanography
- SUS 118 Intro to the Natural History of Long Island (formerly offered as EHM 118)

B. Electives (9 credits)

Choose one of the following courses:

- GSS 317 Geospatial Narratives: Deep Mapping for Humanities and Social Sciences
- SUS 117 Design and Drawing (formerly offered as SBC 117)
- SUS 329 Environmental Film, Media, Arts (formerly offered as EHM 325)

Choose two of the following courses:

- AFS 374 Environment and Development in African History
- ENS 333 Environmental Law
- SUS 309 Global Environmental Politics (formerly offered as SBC 309)
- SUS 314 Civilizations and Collapse (formerly offered as EHM 314)
- SUS 315 Ethnographic Field Methods (formerly offered as EHM 315)
- SUS 317 American Environmental History (formerly offered as SBC 307)
- SUS 318 American Environmental Politics (formerly offered as SBC 308)
- SUS 320 Utopia and Dystopia in the Environment in Lit and Culture (formerly offered as EHM 321)
- SUS 321 Ecology and Evolution in American Literature (formerly offered as SBC 321)
- SUS 325 Environmental Writing and the Media (formerly offered as EHM 323)
- SUS 328 Ecofeminism, Lit, and Film (formerly offered as EHM 322)
- SUS 343 Age of the Anthropocene
- SUS 350 Contemporary Topics in Sustainability
- SUS 386 The Maya (formerly offered as EHM 386)

Sample Course Sequence for the Major in Environmental Humanities

A course planning guide for this major may be found here. The major course planning guides are not part of the official Undergraduate Bulletin, and are only updated periodically for use as an advising tool. The Undergraduate Bulletin supersedes any errors or omissions in the major course planning guides.

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SUS
Sustainability Studies

SUS 111: Introduction to Sustainability
Survey course introduces concept of sustainability. Sustainability is often defined as the ability to provide for the needs of the world's current population without damaging the ability of future generations to provide for themselves. This course reviews the needs of the current population and future generations, trends that affect our ability to provide those needs, and possible solutions that are environmentally, economically, and socially acceptable. Formerly offered as SBC 111; not for credit in addition to SBC 111.

SBC: SNW
3 credits

SUS 113: Physical Geography Lecture
This study of geosystems examines modern environmental problems through quantitative methods, analysis, and modeling grounded in basic and applied science and research. The goal of the course is to introduce students to the fundamental processes that dominate the atmosphere, hydrosphere, lithosphere, and biosphere, their characteristics and complex interactions, and their impact on human life and society. Formerly offered as SBC 113; not for credit in addition to SBC 113.

DEC: E
SBC: SNW
3 credits

SUS 114: Physical Geography Lab
This laboratory course provides hands on experience in understanding the geosystems, including distribution and interrelationships of climate, vegetation, soils, and landforms. Formerly offered as SBC 114; not for credit in addition to SBC 114.

Pre- or corequisite: SUS 113 (formerly SBC 113)
1 credit

SUS 115: Introduction to Human Demography
An introductory course on the study of human population. Measurement issues and data in demographic analysis, as well as demographic perspectives on the basis of a review of major sources of information about population studies will be presented. Theories incorporating social, economic and political explanations for influences on human population growth will be considered. Population processes, with focus on fertility, mortality and migration, are reviewed. Population structure and characteristics, the interaction of the population processes and the number of people in a society of a given age, sex, race, ethnicity, socio-economic levels, marital status, and gender, are reviewed. Major issues related to sustainability (such as economic development, food and pollution, urbanization, gender and minority empowerment, and the human relationship and ecology with other organisms and species) are reviewed. Formerly offered as SBC 115; not for credit in addition to SBC 115.

Prerequisite: MAT 125, MAT 131, MAT 132, AMS 151, or level 6 or higher on math placement exam

SBC: SBS
3 credits

SUS 117: Design Drawing
This introductory course exposes the student to the fundamental theories and practices employed in visually representing design concepts from observational through technical and speculative drawing. The course content introduces the student to contour drawing, rendering, orthographic projection, and pictorial drawing. Project work engages the student in the application of the above-mentioned drawing techniques and develops skills through the solution of student tailored problems. Formerly offered as SBC 117; not for credit in addition to SBC 117.

DEC: D
SBC: TECH
3 credits

SUS 118: Introduction to the Natural History of Long Island
This multidisciplinary course focuses on the natural history of Long Island and the ecological analysis of local forests, salt marshes, marine intertidal systems and bogs. Students will become familiar with observation techniques and conceptual approaches used to investigate ecological patterns and processes in the local environment. Formerly offered as EHM 118; not for credit in addition to EHM 118.

DEC: E
SBC: SNW
3 credits

SUS 200: Human Settlement: History and Future
The history of city growth over the millennia as affected by technological change is a basis for understanding the future of human settlement. More than half of the world's population currently lives in cities and urbanization continues on a global scale. The universality of urban development and resulting patterns will be presented as well as limits on growth of cities. Architectonic and socioeconomic planning theories and strategies for sustainable growth are presented. The development of Long Island, which is a microcosm of national and global patterns, will be discussed in detail. Formerly offered as SBC 200; not for credit in addition to SBC 200.

Prerequisite: WRT 102

DEC: G
SUS 203: Interpretation and Critical Analysis
An introduction to interdisciplinary inquiry and representation in arts, culture, and theory with emphasis on the roles of analysis, argument, and imagination in multiple media. Requires serious engagement with sophisticated texts. Formerly offered as SBC 203; not for credit in addition to SBC 203. Pre- or corequisite: WRT 102
DEC: G
SBC: CER, HUM, WRTD
3 credits

SUS 204: Population Studies
The course will present basic mathematics of population growth and introduce various approaches for modeling populations, including population viability analysis (PVA). PVA, the quantitative assessment of the extinction risk of rare species or populations, takes biological information (habitat requirements, birth and death rates, population size) and makes predictions about future population sizes. Real examples will be discussed for a range of organisms, from bacteria to plants and mammals. This course will provide also the background for understanding human population growth. The impacts of human population growth in the developed and developing world on the ecology of other organisms, habitats and systems will also be discussed. Formerly offered as SBC 204; not for credit in addition to SBC 204.
Prerequisite: MAT 125, MAT 131, or AMS 151
DEC: E
SBC: STEM+
3 credits

SUS 206: Economics and Sustainability
Introduction to the basic economic concepts used in sustainability analysis. Students will learn the basic concepts and how to apply them in various context. Topics include the analysis of situations in which the behavior of individuals indirectly affects the well-being of others, strategic behavior and the environment, and the use of market-oriented policies to help in the stewardship of the environment. Formerly offered as SBC 206; not for credit in addition to SBC 206.
Prerequisite: ECO 108
DEC: F
SBC: SBS+
3 credits

SUS 301: Technical Writing and Communication
A course devoted to the presentation of technical information to different audiences. Styles of writing to be covered will include grant proposals, reports, and journal articles; principles of oral presentation will include elements of design and graphics. Formerly offered as CSK 320; not for credit in addition to CSK 302.
Prerequisite: WRT 102
SBC: SPK, WRTD
3 credits

SUS 302: Integrative Assessment Models
Use, evaluation, and development of integrated assessment models. These model typically integrate environmental concerns with variables from other disciplines for the purpose of providing policy advice to decision-makers. Students will learn about the most frequently used integrated assessment models and what we can learn from them. The models studies will include the World3 model, which was the basis of the famous book "The Limits to Growth."
Prerequisite: SUS 201 (formerly SBC 201); U3/U4 status
3 credits

SUS 303: Demographic Change and Sustainability
This course will assess the unprecedented demographic changes and diversity of the 21st century, through an interdisciplinary approach. It will explore themes such as population ageing and decline, migration in population replacement, demographic change and sustainable public health, social welfare programs, environmental degradation, and differential vulnerabilities (e.g., gender, poverty, age, education, ethnicity and race, empowerment and rights).
Prerequisite: SUS 115 (formerly SBC 115)
3 credits

SUS 304: Beyond Eden: Contact Narratives, Origins and Sin
This course surveys Pueblo, African, Spanish, British, and Shinnecock contributions to American literature from the 1500s through the 1900s. Students will extend their understanding of these diverse traditions by analyzing contemporary literature that addresses the themes of nature, origins and sin, and by engaging in their own creative work. A final project will require students to examine one tradition in depth, to demonstrate understanding of theoretical approaches to literature, and to engage in historical research. Formerly offered as EHM 310; not for credit in additon to EHM 310.
Prerequisite: WRT 102
DEC: K
SBC: HFA+
3 credits

SUS 305: Collective Action and Advocacy
This course will address the ways in which people act collectively to address social problems or to change social policy. The course will be divided into two sections: a general introduction to the study of collective action, and a set of case studies in environmental activism. Formerly offered as CSK 305; not for credit in addition to CSK 305.
Prerequisite: SUS 111 (formerly SBC 111) or ENS 101
Advisory Prerequisite: POL 102 or SOC 105
DEC: F
SBC: SBS+
3 credits

SUS 306: Business and Sustainability
This course examines the interface between business and sustainability. It considers opportunities for the development and growth of profit and not-for-profit businesses associated with the promotion of sustainability. It also covers how environmental concerns and related governmental regulations influence business operations and profitability. Students will apply career skills and concepts from environmental economics to understand how business functions (e.g., operations, public relations, sales, health and safety, and corporate social responsibility) are influenced by environmental concerns. The course will highlight current issues and cases, provide an overview of theory and practice, and generate research to test students' hypotheses, and generally explore opportunities and threats to business viability. Review of current affairs, case analyses, role plays, field trips, and guest speakers will be included along with required reading in seminal theory and research.
Prerequisite: SUS 206 (formerly SBC 206)
3 credits

SUS 307: Environmental Economics and Management
This course presents advanced concepts in environmental economics and management through a series of detailed case studies. The cases include those concerning the US sulfur-dioxide permit trading system, the Kyoto Protocol, zoning, coastal fisheries, the use
of ethanol in gasoline, tradable development rights in the Long Island Pine Barrens and the conservation of endangered species.

Prerequisite: SUS 206 (formerly SBC 206)

**SBC:** STAS

3 credits

**SUS 308: Economic Development**

This course teaches students about economic development and its relationship to the environment. Students learn about both the theory of economic growth and the way development has proceeded in various regions of the world. Examples will come from the Asian tiger economies of East Asia and the development disasters in Sub-Saharan Africa. The relationships between the levels and rates of growth of output and various environmental indices will be explored.

Prerequisite: SUS 206 (formerly SBC 206)

3 credits

**SUS 309: Global Environmental Politics**

This course will explore the politics of environmental policy-making within the international realm. Focused especially on environmental dilemmas that cross national boundaries (i.e., pollution), or that are shared by multiple nations (i.e., global warming) it will look at the ways that such problems have been defined and their solutions sought, both with and without an over-arching state or governance. It will survey the many groups, interests and values that have clashed and competed with one another to exert power and influence international environmental policies, as well as the variety of international institutions and agreements that have sought to formulate and implement solutions. One goal is to illuminate how and why effective solutions to global environmental problems differ from those to scientific or engineering puzzles. The course also aims to spur student engagement with the sometimes overwhelming nature of global environmental threats, the tenuous and sometimes counterproductive ways that knowledge and power can be linked, and the ways individuals may act powerfully in service of “sustainability.” Formerly offered as SBC 309; not for credit in addition to SBC 309.

Prerequisite: SUS 111 (formerly SBC 111) or ENV 115 or ENS 101 or GEO 101 or permission of instructor

**SBC:** GLO

3 credits

**SUS 310: Migration, Development and Population Redistribution**

This course draws upon the contributions of various social and natural sciences (including population and urban geography, demography, political science, sociology, history, economics, public health and environmental sciences) to explore the effects of migratory and demographic shifts on the environment, social welfare, public health, economic development, ethnic diversity, urbanization, public policy and planning. It will examine the political, social, environmental, health and economic effects on sustainability. Formerly offered as SBC 310; not for credit in addition to SBC 310.

Prerequisite: SUS 111 (formerly SBC 111)

3 credits

**SUS 311: Disasters and Society: A Global Perspective**

This class introduces students to the sociological examination of natural, technological, and industrial disasters. Students will explore how and why disasters are fundamentally social events: What do disasters reveal about society? Why are the human consequences of disasters unequally distributed? What are the typical ways in which states, organizations, and communities respond to disasters? Focusing on case studies from around the world, students will discuss: What are the long-term/short-term causes of particular disasters? What forms of suffering the disasters under consideration generated? What state/civil society actions did they trigger? What advocacy networks were put in place in their aftermath? Formerly offered as SBC 311; not for credit in addition to SBC 311.

Prerequisite: SUS 111 (formerly SBC 111), or ENS 101, or GEO 101; POL 102 or SOC 105

**DEC:** H

**SBC:** STAS

3 credits

**SUS 312: Environment, Society, and Health**

This class examines the interactions between environment, social structures, and institutions. The first part of the class examines the ways in which environmental issues are perceived and constructed by various social actors (lay public, state officials, scientists, activists, media). The second part of the class will examine the differential impact of class, race, and gender on the distribution of hazards and risks (what is commonly known as ‘environmental inequality’). In the third part of the class, students will be introduced to different cases of ‘contested environmental illnesses’ (cancer, lead-poisoning, asthma).

Formerly offered as SBC 312; not for credit in addition to SBC 312.

Prerequisite: SUS 111 (formerly SBC 111), or ENS 101, or GEO 101; POL 102 or SOC 105

**DEC:** F

**SBC:** SBS+

3 credits

**SUS 313: Ecosystem Based Management**

Ecosystem-Based Management (EBM) is an emerging management paradigm for balancing ecosystem health and human activities. EBM stresses that management must 1) integrate ecological, social, economic, and institutional views, 2) produce sustainable results, 3) consider uncertainty and risks in making management decisions, and 4) utilize adaptive management practices. This course will examine these principles and identify ways they may be put into practice. Formerly offered as EHI 311; not for credit in addition to EHI 311.

Prerequisite: SUS 111 (formerly SBC 111) or ENS 101; BIO 351

**SBC:** STEM+

3 credits

**SUS 314: Civilizations and Collapse**

A comparative study of the development and collapse of civilizations. Changing case studies drawn from prehistoric and historic societies in the Americas provide students with an in-depth understanding of the ways in which two non-Western cultures were affected by and attempted to cope with environmental change. Students will learn to think critically about these processes and will complete the course with an increased awareness of the diversity of human responses to climactic change. Formerly offered as EHM 314; not for credit in addition to EHM 314.

Prerequisite: U3 or U4 status

**DEC:** J

**SBC:** GLO

3 credits

**SUS 315: Ethnographic Field Methods**

Ethnographic Field Methods will explore and apply the methodological tools used by anthropologists to gather and interpret data. Using classic ethnographic texts, students will study a variety of anthropological methods. Both qualitative and quantitative methods will be examined. Students will apply the methods studied in class to an independent research project throughout the semester. Formerly offered as EHM 315; not for credit in addition to EHM 315.

Prerequisite: U3/U4 standing
Advisory Prerequisite: ANT 102
3 credits

SUS 316: Cuba and Sustainability
For a variety of reasons, Cuba represents a wonderful case study for the value of using the natural history, arts, media and cultural traditions as a means of encouraging citizens to adopt environmentally sustainable practices. Working with the University of Havana Geography department, as well as Artes Escenicas Cubanas (Performing Arts organization) and Cuban writers about the environment, the class will explore the complexities of sustainability with an emphasis on the role of humanities in a global context with hands-on experience. Formerly offered as EHM 316; not for credit in addition to EHM 316.

DEC: G
SBC: EXP+, GLO, HUM
3 credits

SUS 317: American Environmental History
This course provides an overview of the history of how Americans have used, viewed and valued the natural environment. Beginning with the Indians and the early colonists (15th-16th centuries), the course will examine the cultural, social, economic, political, and technological currents that shaped North Americans' relationships with their environment in early and later industrial eras, after World War II, and finally, in the late 20th and early 21st centuries. Historical snapshots will center on people living in more natural places, such as farms and forests, as well as more built places, such as factories, cities, and suburbs. Events in the northeastern U.S. will provide a geographic focus, but the course will also look at related happenings elsewhere on the North American continent and beyond. Finally, it will examine at the growing array of movements that have identified themselves as 'environmental,' at the 'greenness' of modern culture, and at the environmental dimensions of a globalizing era. Formerly offered as SBC 307; not for credit in addition to SBC 307.

Prerequisite: WRT 102
DEC: K
SBC: SBS+, USA
3 credits

SUS 319: Restoration Ecology
A study of the rationale, principles, practices, and legal, social, economic, and ethical issues associated with restoring the structure and function of degraded ecological systems. Restoration ecology draws heavily from ecological theory, and the process of restoring a site can in fact provide unique experimental opportunities to test how well ecological theories predict the responses of natural systems. Important ecological concepts applied in restoration include disturbances, succession, fragmentation, system function, as well as, emerging areas such as assembly theory and alternative stable states. Formerly offered as EHI 310; not for credit in addition to EHI 310.

Prerequisite: BIO 201
SBC: STEM+
3 credits

SUS 320: Utopia and Dystopia and the Environment in Literature and Culture
Examines 20th and 21st century Western cultural depictions of utopias and dystopias in literature (nonfiction, fiction). The course will consider literary representations of ideal or fallen societies, as well as 'real life' communities such as intentional, communal, co-operative 'utopic' models across the globe. Students will consider the 'sustainability' implications of living in 'utopic' and 'dystopic' communities. Students will write six short analytical essays about the course readings, give an oral and visual presentation on a real-life global utopic/dystopic community, and design their own model environmental utopic/dystopic community. Formerly offered as EHM 321; not for credit in addition to EHM 321.

Prerequisite: U3 or U4 standing
Advisory Prerequisite: One literature course at the 200 level or higher
DEC: G
SBC: HFA+
3 credits

SUS 321: Ecology and Evolution in American Literature
This course is a review of 19th- and 20th-century American writers who trace the evolution of the US with respect to ecological practices through various multicultural perspectives. Literature covered will include transcendentalist essays, utopian/dystopian novels, ecofeminist fiction, and journalism. This course is offered as both EGL 319 and SUS 321. Formerly offered as SBC 321; not for credit in addition to SBC 321.

Prerequisite: WRT 102
Advisory Prerequisite: SUS 203 (formerly SBC 203)
DEC: G
SBC: HFA+, WRTD
3 credits

SUS 322: Human Ecology
Human ecology investigates how humans and human societies interact with nature and with their environment. Course first introduces the concepts and methods of human ecology. Following this foundation, the course will give special emphasis to empirical examples, case studies and lessons from history. The course will focus on individuals, communities and traditional societies. Human Ecology compliments Human Geography, which studies patternning at the larger scale. Formerly offered as EHI 322; not for credit in addition to EHI 322.

Prerequisite: BIO 201
SBC: STEM+
3 credits

SUS 323: Environmental Justice
Explores the inequitable distribution of environmental risks, such as exposure to toxic chemicals and materials, versus environmental benefits such as access to environmental protections and natural resources. Most importantly, this course explores the essential question of 'why' there is such an inequity and, oftentimes, 'who' permits or allows disparate treatment. As Dr. Robert Bullard states, "who gets what, why, and how much?" Understanding the moral questions that underpin environmental justice requires exploration from the sociopolitical standpoint, but also through legal, economic, policy, and historical standpoints on a domestic,
international, and transnational scale. The course will include readings from sociology and political science texts and perspectives, as well as literary and film portrayals of environmental justice topics. Formerly offered as EHM 323; not for credit in addition to EHM 325.

Prerequisite: WRT 102
Advisory Prerequisite: SUS 203 (formerly SBC 203)

DEC: E
SBC: STEM+
3 credits

SUS 327: Human Reproductive Ecology
Course builds on behavioral ecology to focus on why humans make the reproductive choices they do and examines cross cultural and individual differences in fertility, mortality and population growth. Course is organized around current debates in physiological, behavioral, and social aspects of human reproduction. A background in reproductive ecology allows students to think empirically about the demographic component of human environment interactions, and to better model sustainable futures. Formerly offered as EHI 321; not for credit in addition to EHI 321.

Prerequisite: BIO 201
DEC: H
SBC: CER, STAS, WRTD
3 credits

SUS 324: Human Geography and the Environment
A study of the historical, geographical, and humanistic foundation for understanding the environment and the environmental issues that confront us today. The fundamental principle of this course is that environmental dynamics are inseparable from social, cultural, political, and economic processes and relations. By studying these complex relationships between humans and the natural environment over time and through space, students examine how human activity impacts the environment in different geographical regions and periods and how the environment responds.

Prerequisite: POL 102 or SOC 105 or SUS 111 or SUS 307
SBC: SBS+
3 credits

SUS 325: Environmental Writing and the Media
An examination of multiple genres (including: photo journalism, literary nonfiction, fine art and advertising and documentary film) in order to understand ways in which these genres are utilized to inform and manipulate public opinion regarding the environment. The culmination of the course will be a final project using multiple genres. Formerly offered as SBC 325; not for credit in addition to SBC 325.

Prerequisite: WRT 102
Advisory Prerequisite: SUS 203 (formerly SBC 203)

DEC: G
SBC: HFA+, WRTD
3 credits

SUS 326: Conservation Genetics
This course is an introduction to genetics taught in the context of conservation. The course will cover a basic introduction to Mendelian, molecular, population, evolutionary and meta-population genetics, and then examine specific applications of these concepts to topics in conservation biology. Formerly offered as EHI 326; not for credit in addition to EHI 326.

Prerequisite: BIO 201
DEC: E
SBC: STEM+
3 credits

SUS 328: Ecofeminism, Literature & Film
Ecofeminism, literature, and film will examine the connections among ecology and feminism in literature, film, conservation and sustainability. Ecofeminism is a complex ecocritical and philosophical approach to reading literature, film, and culture; it asks that we rethink our relationship to the earth and our responsibilities as human beings to all living creatures and to people of all races, cultures, and genders. In this course, students will study ecofeminist concepts in poetry, nonfiction essays, fiction, and films, and they will examine the work of prominent women ecologists, conservationists, and environmentalists. Formerly offered as EHM 322; not for credit in addition to EHM 322.

Prerequisite: WRT 102
Advisory Prerequisite: SUS 203 (formerly SBC 203)

DEC: G
SBC: HFA+, WRTD
3 credits

SUS 329: Environmental Film, Media, Arts
This course is designed to develop visual communication skills and strategies to inspire environmental awareness and advocacy. The course extends beyond two-dimensional graphic design to include critical approaches to the practice of environmental design, film and visual art. With a focus on strategic messaging and technical skills, students will learn design principles, image making and filmmaking to bridge environmental issues through diverse media texts. Students will pick one topic, which will be used throughout the course as a primary theme and applied to various media and art projects. Each media project will use the tools of visual communication to engage the public and foster positive environmental, social, political, and ethical change. Formerly offered as EHM 325; not for credit in addition to EHM 325.

Prerequisite: SUS 111 (formerly SBC 111) or ENS 101; U3 or U4 status
Advisory Prerequisite: SUS 203 (formerly SBC 203)

DEC: HFA+
SBC: HFA+, WRTD
3 credits

SUS 330: Extreme Events in Literature
A course that examines the depiction of extreme events (both natural and human-related) in literature, journalism, art, and film, with special emphasis paid to the extended political and social issues that are raised by the events in question. Formerly offered as SBC 330; not for credit in addition to SBC 330.

Prerequisite: WRT 102
Advisory Prerequisite: SUS 203 (formerly SBC 203)

DEC: G
SBC: HFA+, WRTD
3 credits

SUS 331: Precolumbian Urbanism
An examination of the development of Precolumbian cities throughout the Americas. Specific attention will be paid to the interaction of urban development and environment, as well as the ways in which culture and cosmology impact architectural design. In depth consideration will be given to urban architecture of specific cultural groups in North, Central, and South America. Formerly offered as EHM 331; not for credit in addition to EHM 331.

Prerequisite: U3/U4 standing

DEC: J
SBC: GLO
3 credits

SUS 333: The Household in Non-Western Society
This course offers a survey of vernacular architecture in Non-Western societies worldwide. Students examine the design and meaning of vernacular architecture in a variety of cultures, exploring the ways in which construction practices and architectural
design are shaped by cultural requirements and social mores. Special attention will be given to the future of vernacular architecture, and the ways in which housing may be designed to be both sustainable and culturally appropriate. Formerly offered as EHM 330; not for credit in addition to EHM 330.

Prerequisite: U3 or U4 standing  
Advisory Prerequisite: ANT 102, ANT 104, or ARH 205  
DEC: J  
3 credits

**SUS 340: Ecological and Social Dimensions of Disease**

The ecology and evolutionary biology of disease will be examined to provide a more general context for human diseases. Pathogens may have large effects on many different types of organisms, from bacteria to plants to humans. We will build on this biological background to examine the social dimensions of disease in human populations and societies, including historical, political and economic aspects to issues of money, power, sexuality, international development and globalization. Specific case studies (the chestnut blight in North America, AIDS in Africa, etc.) will be used to examine concepts and principles in detail in a real-world context. This course will investigate basic fundamentals and recent research on these issues in a unified framework. Formerly offered as EHI 340; not for credit in addition to EHI 340.

Prerequisite: BIO 201  
DEC: H  
SBC: STAS  
3 credits

**SUS 341: Environmental Treaties and Protocols**

A multi-disciplinary study of the scientific basis, objective, development, implementation, and intended and unintended consequences of a single major Environmental Treatise or Protocol, such as the Kyoto Protocol. Official documents, secondary literature, as well as commentary on the Treatise or Protocol are studied.

Prerequisite: SUS 111 (formerly SBC 111), or ENS 101, or GEO 101; U3 or U4 standing  
DEC: H  
SBC: STAS  
3 credits

**SUS 342: Energy and Mineral Resources**

This class will explore the origin, distribution, and importance of energy and mineral resources to modern civilization, with an emphasis on fossil fuels and non-renewable mineral resources extracted from Earth. Geological processes responsible for the formation and distribution of energy and mineral resources, as well as current and future supply and demand are discussed. The environmental implications of the extraction and use of energy and mineral resources as well as techniques to minimize the impact on the environment will be discussed.

Prerequisite: one D.E.C. E or SNW course  
DEC: H  
SBC: STAS  
3 credits

**SUS 343: Age of the Anthropocene**

Provides a deeper understanding of the ways in which humans have interacted with and transformed the planet during recent geologic time, including the Holocene, Industrial Revolution, and into the present. We consider Earth as a global ecosystem, characterized by interacting and dynamic systems, including natural and anthropogenic. This course critically examines the current interpretations and applications of the term Anthropocene, and identifies the key tenants and societal outcomes of this powerful, and sometimes conflicting, idea as applied today in science, sustainability, and beyond.

Prerequisite: one of the following courses: SUS 111 (formerly SBC 111), SUS 113 (formerly SBC 113), ENS 101, GEO 101, GEO 102, ENV 115, CHE 131  
DEC: H  
SBC: STAS  
3 credits

**SUS 344: Sustainable Natural Resources**

This course explores in depth the economic viability, social acceptance, and potential of sustainable natural resources to replace non-renewable resources. Examples are drawn from water resource management, agriculture, forestry, fisheries, and renewable energy resources (wind, solar, biofuel, etc.). There is particular emphasis on examples of integrated, participatory and sustainable natural resources management project in less developed countries. Formerly offered as EHI 343; not for credit in addition to EHI 343.

Prerequisite: SUS 111 (formerly SBC 111) or ENS 101; ENV 115 or CHE 131; BIO 201  
DEC: H  
SBC: STAS  
3 credits

**SUS 350: Contemporary Topics in Sustainability**

This course deals with the meaning and the application of the idea of sustainability. First, the mathematics of exponential and linear growth, and the concept of stability in complex systems will be developed. The idea of stable equilibrium and the long-term/short term distinction will also be discussed. Then, various subjects of sustainability—populations, species, habitats, ecosystems, resources, cultures, modes of production, economic systems, and political systems will be considered. Various purposes of sustainability for its own sake, for human welfare, for the welfare of nature will also be discussed. May be repeated as the topic changes.

Prerequisite: SUS 111 (formerly SBC 111); U3/U4 status  
3 credits

**SUS 351: Design and Implement a Research Project in Ecotoxicology**

Research, design and implement a unique project in ecotoxicology. Course covers literature reviews, hypothesis formation, initial implementation of a research project, and some write-up. Projects vary by year but may involve ecotoxins such as acid rain, heavy metals, pesticides, plastics or herbicides and organisms such as soil microbes and/or earthworms. Students are encouraged but not required to enroll in SUS 352, offered in the spring, to complete and communicate their project. Course may be repeated once with director’s approval. This course has an associated fee. Please see www.stonybrook.edu/coursefees for more information. Formerly offered as EHI 350; not for credit in addition to EHI 350.

Prerequisite: C or better in one of the following: BIO 201, BIO 202, BIO 203, CHE 115, CHE 123, CHE 129, CHE 131, CHE 141, CHE 152, PHY 121, PHY 125, ENV 115  
SBC: EXP+, STEM+  
3 credits

**SUS 352: Conduct and Communicate a Research Project in Ecotoxicology**

Conduct and communicate a student-designed project in ecotoxicology. Course covers data collection, data analysis and write up. Students will communicate their research at an appropriate venue such as URECA. Projects vary by year and will involve ecotoxins such as acid rain, heavy metals, pesticides, plastics or herbicides and organisms such as soil microbes or earthworms. Course builds on a project initiated in SUS 351, but SUS 351 is not a prerequisite. Course may be repeated once with the director’s approval. This course has an associated fee. Please see www.stonybrook.edu/coursefees for more information.
wwww.natur.e fcies for more
information. Formerly offered as EHI 351; not
for credit in addition to EHI 351.
Prerequisite: C or better in one of the
following: BIO 204, 205, 207, CHE 133, 134,
154, PHY 123, 124, 133, 134, 191, 192, EHI 350
SBC: EXP+
3 credits

SUS 354: Drawing for Design--CAD
Techniques and Theory of Drawing:
Architectural Drawing: Learning Computer
Assisted Design (CAD). This course will serve
as an introduction to CAD tools relevant to
design and architectural rendering. Formerly
offered as SBC 354; not for credit in addition
to SBC 354.
Prerequisite: SUS 117 (formerly SBC 117)
SBC: STEM+
3 credits

SUS 366: Philosophy of the
Environment (III)
Philosophical questions raised by human
relations with the natural world, ranging from
basic concepts such as nature, ecology, the
earth, and wilderness, to the ethical, economic,
political, and religious dimensions of current
environmental problems, including the
question of whether there are values inherent
in nature itself beyond those determined by
human interests alone. This course is offered
as both PHI 366 and SUS 366.
Prerequisite: PHI 104 or two PHI courses; or
permission of the department
DEC: G
SBC: CER, HFA+
3 credits

SUS 374: Environment and
Development in African History
Provides a critical exploration of the history
and political-economy of environmental
changes and human activities in Africa from
earlier times to the present. It examines
the ways in which the dynamics of human-
environment relationship have shaped
the development of African societies
and economies from the rise of ancient
civilizations to the contemporary problems
of war and famine. Although significant
attention will be given to the pre-colonial era
(like the impacts of iron-working, irrigation,
deforestation and desertification), the focus
of the course will be on the 20th and century and
after, looking at the impacts of imperialism,
colonialism, globalization and the postcolonial
quest for development on the state of the
environment in Africa. In the discussion, we
will demonstrate that the shaping of African
environments and ecologies is a product
of complex, evolving and interconnected
developments between humans and nature
within and beyond the African continent.
Offered as both AFS 374 and SUS 374. Not
for credit in addition to SBC 320 or SBC 374.
Prerequisite: U3 or U4 status
DEC: F
SBC: SBS+
3 credits

SUS 386: The Maya
For many, the word ‘Maya’ evokes images
of a long dead culture and ruined pyramids.
This course uses that familiarity as a starting
point and follows the history of the Maya from
ancient times to the present. We begin with
an overview of what scholars know about
the ancient Maya before tracing their experiences
since the Spanish conquest, placing emphasis
on Spanish colonization in the lowland areas
of Mesoamerica, Mexico's War of the Castas,
and the diverse experiences of the modern
Maya including the Guatemalan Civil War and
the Chiapas uprising, the impact of foreign
tourism, and the experience of transnational
migration. Special attention will be paid to
the ways in which environmental and agrarian
issues have impacted this diverse group of
peoples. Offered as both HIS 386 and SUS
386. Formerly offered as EHM 386; not for
credit in addition to EHM 386.
Advisory prerequisite: HIS 212
DEC: J
SBC: SBS+
3 credits

SUS 390: Humanity's Quest for Food
Security: The Last 10,000 Years in the
Turkana Basin
Explores human innovation in maintaining
food security by examining the record of the
Turkana Basin through the last 10,000 years
of environmental change. Students will evaluate
the sustainability of fishing-gathering-hunting
strategies and consider mechanisms for the
spread of herding into the Turkana Basin 4000
years ago as climate conditions became more
arid. They will examine the development of
diverse, complementary economic systems
within the Turkana Basin from 3000 years ago
to the present, and consider environmental and
social impediments to farming in this area.
Formerly offered as EHM 390; not for credit in
addition to EHM 390.
Prerequisite: Permission of the instructor/
Study Abroad office
DEC: F
SBC: SBS
3 credits

SUS 391: Nature & Nurture for
Sustainable Health: Humans, Livestock
& Vectors in the Turkana Basin
The Turkana Basin offers unique opportunities
to explore questions related to health,
environment, gender, changing livelihoods
and vector biology. The added nexus of
ongoing climate change, environmental
degradation and shifting demographics
have complex, intertwined influences on
humans and livestock. Through hands-on
activities, students will probe issues related
to biology and public health. Students will
learn basic biology, including life cycles
evolutionary history of disease vectors
and their impact on humans and livestock.
They will also gain experience in designing,
conducting, presenting and evaluating studies
concerning current applied questions in the
Turkana region, eastern Africa and the broader
developing world. Formerly offered as EHM
391; not for credit in addition to EHM 391.
Prerequisite: Permission of the instructor/
Study Abroad office
DEC: E
SBC: STEM+
3 credits

SUS 392: Water Security and
Sustainable Development in the
Turkana Basin
Lake Turkana, the world's largest desert lake,
is now the focus of numerous development
projects that have serious environmental,
social, and political impacts. These include
multiple dams and plantations in Ethiopia
on the Omo River, which furnishes 90% of Lake Turkana's water; the discovery of
oil and a nearby large aquifer; and various
other development initiatives. This course
uses EHI's unique geographic and strategic
position to examine some of the contemporary
and conceptual issues relating to disputes
over trans-boundary water resources, such
as hydropolitics, processes of securitization
and de-securitization, hydro-hegemony and
patterns of conflict and cooperation. Formerly
offered as EHM 392; not for credit in addition
to EHM 392.
Prerequisite: Permission of the instructor/
Study Abroad office
SBC: SBS+
3 credits

SUS 401: Integrative, Collaborative
Systems Studies
Problem-based capstone course. Formerly
offered as SBC 401; not for credit in addition
to SBC 401.
Prerequisite: U3 or U4 status; major in COS, EHI, EHM, or SUS, or permission of the department

SBC: ESI
3 credits

SUS 405: Environmental Sustainability in Tanzania
Focus on environmental issues in Tanzania as a sample of the developing world, with emphasis on present condition and future prospects. We examine how climate, technology development, and agriculture affect the environment. Also, impacts of environmental degradation and national policies (including the United Nations Sustainable Development Goals) on poverty reduction, natural resources, health and economic growth are discussed.

Prerequisite: one of the following: SUS 111 (formerly SBC 111), ENS 101, GEO 101

SBC: EXP+, GLO
3 credits

SUS 444: Experiential Learning
This course is designed for students who engage in a substantial, structured experiential learning activity in conjunction with another class. Experiential learning occurs when knowledge acquired through formal learning and past experience are applied to a “real-world” setting or problem to create new knowledge through a process of reflection, critical analysis, feedback and synthesis. Beyond-the-classroom experiences that support experiential learning may include: service learning, mentored research, field work, or an internship.

Prerequisite: WRT 102 or equivalent; permission of the instructor and approval of the EXP+ contract (http://sb.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree_requirements/EXPplus.php)

SBC: EXP+
0 credit, S/U grading

SUS 475: Undergraduate Teaching Practicum
Work with a faculty member as an assistant in one of the faculty member's regularly scheduled courses. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.

Prerequisites: Permission of instructor and undergraduate director

SBC: EXP+
3 credits, S/U grading

SUS 476: Undergraduate Teaching Practicum II
Work with a faculty member as an assistant in one of the faculty member's regularly scheduled courses. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.

Prerequisites: Permission of instructor and undergraduate director

SBC: EXP+
3 credits, S/U grading

SUS 487: Research in Sustainability
Qualified advanced undergraduates may carry out individual research projects under the direct supervision of a faculty member. May be repeated.

Prerequisite: Permission of instructor

SBC: ESI, EXP+, WRTD
1-6 credits, S/U grading

SUS 488: Internship in Sustainability
Participation in local, state, and national public and private agencies and organizations. May be repeated to a limit of 12 credits.

Prerequisites: U3/U4 status and permission of the Undergraduate Program Director

SBC: EXP+
0-12 credits, S/U grading

SUS 488: Internship in Environmental Humanities
Participation in local, state, and national public and private agencies and organizations. May be repeated to a limit of 12 credits.

Prerequisites: U3/U4 status and permission of the Undergraduate Program Director

SBC: EXP+
0-12 credits, S/U grading

SUS 488: Internship in Sustainability Studies
Participation in local, state, and national public and private agencies and organizations. May be repeated to a limit of 12 credits.

Prerequisites: U3/U4 status and permission of the Undergraduate Program Director

SBC: EXP+
0-12 credits, S/U grading