EDP

Environmental Design, Policy, and Planning

EDP 301: The Built Environment I
The functional determinants of an urban region's physical infrastructure, encompassing cities, suburbs, exurbs and satellite communities are presented. The course will cover metropolitan infrastructure components including systems of transportation, water supply, waste disposal and energy distribution and how they are shaped by the interaction of economics, politics and planning practice.
Prerequisite: SBC 200
SBC: SBS+ 3 credits

EDP 302: The Built Environment II
The functional dynamics underlying the development and planning for structures and facilities in urban regions are presented including their cities, suburbs, exurbs and recreational satellite communities. The course will cover the interaction of real estate economics, politics and good planning practices as they affect residential, commercial, educational, cultural and industrial sites.
Prerequisite: SBC 111 and SBC 200
SBC: SBS+ 3 credits

EDP 303: Spatial Economics
Economic theories and empirical data that explain the distribution of man-made activities in geographic regions are presented. The course emphasizes spatial patterns among and within urban regions of the United States. Classes will cover the economic and demographic factors governing the distribution, within natural regional conurbations, of residences, industries and all other activities whose location is economically determined.
Prerequisite: SBC 206
SBC: SBS+ 3 credits

EDP 304: Environmental Design Project
The Environmental Design Project is the culmination of the EDP Major. Each student should produce an individual work, that is a thoughtful analysis of a real-world problem addressing one of four central themes of the major's core: 1) historic and theoretical perspectives; 2) the physical and built environment; 3) policy, politics and regulation; or 4) societal and cultural change. Allowing that there may be some overlap among these four themes, each project must focus on a specific place, process or object. Students are expected to produce a final project portfolio—which may include audio-visual materials, drawings, models, posters, artifacts, etc.-- and a written report. Each student is expected to make a presentation to faculty and students before the close of the semester.
Prerequisites: EDP 301 and EDP 302 and EDP 307 and CSK 102
SBC: EXP+ 3 credits

EDP 305: Risk Assessment and Sustainable Development
Course presents a comprehensive overview of risk analysis and its application to a broad range of human activities. The methodology of risk analysis enables those involved in environmental sustainability to evaluate the probability of an adverse effect of an agent, chemical, industrial process, or natural process.
Prerequisite: ENV 115
SBC: SBS+ 3 credits

EDP 307: Theories and Design of Urban Settlements
The course introduces students to the underlying economic, social and physical forces that shape the development of human settlements, with an emphasis on urban conurbations, and the typical United States metropolitan region.
Prerequisite: SBC 111 and SBC 200
SBC: SBS+ 3 credits

EDP 309: Planning: Policies and Regulations
An introduction to the process of planning and development of regulations necessary for the implementation of planning objectives.
Prerequisite: SBC 200
SBC: SBS+ 3 credits

EDP 404: Environmental Design Project
The Environmental Design Project is the culmination of the EDP Major. Each student should produce an individual work, that is a thoughtful analysis of a real-world problem addressing one of four central themes of the major's core: 1) historic and theoretical perspectives; 2) the physical and built environment; 3) policy, politics and regulation; or 4) societal and cultural change. Allowing that there may be some overlap among these four themes, each project must focus on a specific place, process or object. Students are expected to produce a final project portfolio—which may include audio-visual materials, drawings, models, posters, artifacts, etc.-- and a written report. Each student is expected to make a presentation to faculty and students before the close of the semester.
Prerequisites: EDP 301 and EDP 302 and EDP 307 and CSK 102
SBC: EXP+ 3 credits

EDP 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://sh.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree_requirements/EXPplus.php)
SBC: EXP+ 0 credit, S/U grading

EDP 487: Research in Environmental Design, Policy, & Planning
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: EXP+ 1-6 credits, S/U grading

EDP 488: Internship in Environmental Design, Policy, & Planning
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

SBC

Sustainability Block Curriculum

SBC 111: Introduction to Sustainability Studies
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.
SBC: SNW 3 credits

SBC 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.

**DEC:** E  
**SBC:** SNW  
3 credits

**SBC 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.  

**Pre- or corequisite:** SBC 113  
1 credit

**SBC 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, socioeconomic 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.  

**Prerequisite:** MAT 125, MAT 131, MAT 132, or level 6 or higher on math placement exam.  
**SBC:** SBS  
3 credits

**SBC 116: Introduction to Human Geography**  
Survey course introduces geography as a social science by emphasizing the relevance of geographic concepts to human problems. Course emphasizes globalization and cultural diversity.  

**DEC:** F  
**SBC:** SBS  
3 credits

**SBC 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.  

**DEC:** D  
**SBC:** TECH  
3 credits

**SBC 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.  

**DEC:** F  
**SBC:** SBS  
3 credits

**SBC 201: Systems and Models**  
Introduction to the dynamic modeling of complex systems. Students will learn to use simulation software that facilitates the visualization, formulation, and analysis of systems. Students will learn about systems with positive and negative feedbacks, the effects lags on system performance, and the difference between stocks and flows. Systems studied will include ecological models, economic models, chemical models, population models, epidemiological models, and models that include the interactions between population, economic development, and the environment.  

**Prerequisite:** AMS 151 or MAT 125 or MAT 131 or MAT 141  
2 credits

**SBC 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.  

Pre- or corequisite: WRT 102  
**DEC:** G  
**SBC:** CER, HUM, WRTD  
3 credits

**SBC 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.  

**Prerequisite:** MAT 125  
**DEC:** E  
**SBC:** STEM+  
3 credits

**SBC 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.  

**Prerequisite:** ECO 108  
**DEC:** F  
**SBC:** SBS+  
3 credits

**SBC 307: 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

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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.

Prerequisite: WRT 102
DEC: K & 4
SBC: SBS+, USA
3 credits

SBC 308: American Environmental Politics
This course will survey the politics of environmental policy-making in the United States. It examines how contrasting political, economic and social interests and values have clashed and contested with one another, and the exerted power, in the environmental policy realm. The course will explore past precedents and roots, but with a view to explain the shape of this realm in the modern United States, including the many actors and institutions: local, regional and national governments, non-governmental organizations and interest groups, as well as the public. It will look at the main patterns by which these groups have defined environmental problems and formulated and implemented solutions. A chief goal is to illuminate how and why solutions of real-world environmental problems, if they are to be effective, differ from those of 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."

Prerequisite: SBC 111 or ENV 115 or ENS 101 or GEO 101 or permission of instructor
SBC: GLO
3 credits

SBC 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.

Prerequisite: SBC 115
3 credits

SBC 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?

Prerequisite: SBC 111, or ENS 101, or GEO 101; POL 102 or SOC 105
DEC: H
SBC: STAS
3 credits

SBC 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).

Prerequisite: SBC 111, or ENS 101, or GEO 101; POL 102 or SOC 105
DEC: F
SBC: SBS+
3 credits

SBC 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.

Prerequisite: WRT 102
Advisory Prerequisite: SBC 203
DEC: G
SBC: HFA+, WRTD
3 credits

SBC 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.

Prerequisite: WRT 102
Advisory Prerequisite: SBC 203
DEC: G
SBC: HFA+, WRTD
3 credits

SBC 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.

Prerequisite: WRT 102
Advisory Prerequisite: SBC 203
DEC: G
SBC: HFA+, WRTD
3 credits
SBC 331: City, Suburb, Sprawl
A course that traces the shift from city to suburb to sprawl in texts that span the late-nineteenth century through the early twenty-first century, with special attention paid to phenomena such as industrialization, immigration, mass society, globalization, and postmodern hyperization. An interdisciplinary set of texts will include works by novelists, artists, architects, and literary theoreticians.  
Prerequisite: WRT 102  
Advisory Prerequisite: SBC 203  
DEC: G  
SBC: HFA+  
3 credits

SBC 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.  
Prerequisite: SBC 117  
SBC: STEM+  
3 credits

SBC 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 SBC 374. Not for credit in addition to SBC 320.  
Prerequisite: U3 or U4 status  
DEC: J  
SBC: GLO, SBS+  
3 credits

SBC 401: Integrative, Collaborative Systems Studies  
Problem-based capstone course.  
Prerequisite: U3 or U4 status  
SBC: ESI  
3 credits

SBC 475: Undergraduate Teaching Practicum
Work with a faculty member as assistant in a regularly scheduled course. The student must attend all classes and carry out all assignments; in addition the student will be assigned a specific role to assist in teaching the course. The student will meet with the instructor on a regular basis to discuss intellectual and pedagogical matters relating to the course.  
Prerequisites: Permission of instructor and undergraduate director  
SBC: ESI, EXP+  
3 credits, S/U grading

SBC 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

GSS 104: GIS Laboratory
Practice using the GIS techniques and tools learned in the lecture (GSS 313), work on exercises, and process and analyze the spatial data for the course project. This laboratory course must be taken in the same semester as the associated laboratory, GSS 314. Not for credit in addition to GSS 317.  
Prerequisite: MAT 125 or MAT 131 or instructor consent  
Corequisite: GSS 314  
SBC: TECH  
3 credits

GSS 309: GIS and Cartography
Cartography is the knowledge associated with the art, science, and technology of maps. Digital computer cartography still follows the same fundamental principles and still requires a broad understanding of graphicacy as a language (as well as numeracy and literacy). This course will provide an introduction to cartographic principles, concepts, software and hardware necessary to produce good maps, especially in the context (and limitations) of geographic information systems (GIS).  
Prerequisite: GEO 102 or GSS 105 or MAR 104 or SBC 113 or instructor consent  
3 credits

GSS 313: GIS Design and Application I
Provides the basic concepts underlying modern geographic information science and technology. Emphasis is placed on the principles of GIS for characterizing environmental systems and computer-based techniques for processing and analyzing spatial data. The course is three credit hours of lecture. This lecture course must be taken in the same semester as the associated laboratory, GSS 314. Not for credit in addition to GSS 317.  
Prerequisite: MAT 125 or MAT 131 or instructor consent  
Corequisite: GSS 314  
SBC: TECH  
3 credits

GSS 314: GIS Laboratory
Practice using the GIS techniques and tools learned in the lecture (GSS 313), work on exercises, and process and analyze the spatial data for the course project. This laboratory course must be taken in the same semester as GSS 313.  
Corequisite: GSS 313  
1 credit

GSS 317: Geospatial Narratives: Deep Mapping for Humanities and Social Sciences
Building on formal methods in qualitative reasoning, spatial and temporal representation and geospatial science, this course will explore state-of-the-art methods for humanities and social sciences students to visualize and drill down data. Hands-on exercises of deep mapping will cover how to collect, analyze and visualize quantitative and qualitative data, spatial data, images, video, audio, and other representations of places and artifacts in humanities and social sciences. This course will also discuss models of reasoning about events, actions and changes that are spatially contextualized. Not for credit in addition to GSS 313.  
Prerequisite: WRT 102

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Advisory Prerequisite: some working knowledge of spreadsheets

SBC: TECH
3 credits

GSS 323: GIS Database and Design
Concepts of geodatabase design and management in geographic information systems (GIS), SQL statements, geographic data types and functions, data entry, techniques of geographic information structure applications. This is a Windows based computer class with the majority of students work involving GIS computer software.
Prerequisite: GSS 313 or GSS 317 or equivalent
3 credits

GSS 325: GIS Design & Applications II
The course builds upon the topics covered in GIS Design and Application I. It emphasizes the applications of GIS in solving real-world problems. Students are expected to gain an understanding of GIS theory, methodology and most importantly application. Students are also expected to demonstrate abilities of spatial thinking, spatial analysis, and be able to solve practical spatial problems utilizing a GIS. Because GIS is both a tool for analysis and the visual communication of these data, students will be required to develop a GIS presentation, much as would be expected in a professional setting. This independent project will constitute a substantial portion of the final grade. This is a Windows based computer class with the majority of students work involving GIS computer software.
Prerequisite: GSS 313 or GSS 317 or equivalent
3 credits

GSS 326: GIS Project Management
The course addresses issues unique to a GIS operation such as implementation issues, decision making procedures, strategies for success, legal issues, involvement of management, marking within an organization, strategic planning, and industry outlook.
Prerequisite: GSS 313 or GSS 317 or equivalent
3 credits

GSS 350: Applied Spatial Data Analysis
An introduction to geospatial statistical analysis that aims to provide students with the background necessary to investigate geographically represented data. The specific focus is on spatial data analysis, such as the analysis of autocorrelation, principles of geostatistics and analysis methods that are relevant in the fields of public health, environmental/earth science and social science. An important aspect of the course is to gain hands-on experience in applying these techniques with GIS and spatial analytical software, and essential methodological and practical issues that are involved in sophisticated spatial analyses.
Prerequisite: AMS 102 or equivalent and GSS 313 or GSS 317 or equivalent
SBC: STEM+
3 credits

GSS 354: Geospatial Science for the Coastal Zone
The use of spatial data is becoming increasingly critical in the decision management process and planning of the coastal zone. This course will use GIS and Remote sensing tools to collect and analyze data for integrating into the management, planning, and monitoring of the coastal geomorphology and ecosystems.
Prerequisite: GSS 313 or GSS 317 or equivalent
3 credits

GSS 355: Remote Sensing GIS Data
Provides a basic overview of the technology by which aircraft and satellite images of the Earth are produced as well as hands on experience manipulating and interpreting. Students gain practical experience in environmental analysis using satellite imagery and commonly used sensors and analytical methods for the Earth sciences.
Prerequisite: GSS 105 or MAR 104 or GEO 102
SBC: STEM+
3 credits

GSS 390: Topics in Geospatial Science
Course will present special interest topics or recent software enhancements in the rapidly developing field of Geospatial Science. The course will include a mixture of core geospatial techniques and recently released methodology. Course content will include a diversity of Geospatial topics and include discipline specific topics relevant to majors in physical sciences, social sciences, business and engineering. Repeatable as the topic changes to a maximum of 6 credits.
Prerequisite: U3 or U4 status or permission of the instructor
3 credits

GSS 475: Undergraduate Teaching Practicum
Work with a faculty member as assistant in a regularly scheduled course. The student must attend all classes and carry out all assignments; in addition the student will be assigned a specific role to assist in teaching the course. The student will meet with the instructor on a regular basis to discuss intellectual and pedagogical matters relating to the course.
Prerequisites: Permission of instructor and undergraduate director
SBC: EXP+
3 credits, S/U grading

GSS 487: Geospatial Science Research
Qualified advanced undergraduates may carry out individual research projects under the direct supervision of a faculty member. Repeatable to a maximum of 3 credits.
Prerequisite: Permission of instructor
0-3 credits, S/U grading

GSS 488: Geospatial Science Internship
The GSS Internship is designed to provide students experience in the real workplace. Interns are expected to function as a GIS/Remote Sensing professional and work within the existing host facility structure or on a free standing project. Interns will complete assigned tasks by hosting facility such as GIS data entry, data retrieval, remote sensing analysis, GPS field work, documentation, or general GIS facility duties. These activities will be monitored by both a representative of the host facility and the instructor. May be repeated to a limit of 12 credits.
Prerequisites: GSS 325; GSS 313 or GSS 317, or instructor consent
SBC: EXP+
0-3 credits, S/U grading

GSS 489: Geospatial Science Research
Qualified advanced undergraduates may carry out individual research projects under the direct supervision of a faculty member. Repeatable to a maximum of 3 credits.
Prerequisite: Permission of instructor
0-3 credits, S/U grading

GSS 350: Applied Spatial Data Analysis
An introduction to geospatial statistical analysis that aims to provide students with the background necessary to investigate geographically represented data. The specific focus is on spatial data analysis, such as the analysis of autocorrelation, principles of geostatistics and analysis methods that are relevant in the fields of public health, environmental/earth science and social science. An important aspect of the course is to gain hands-on experience in applying these techniques with GIS and spatial analytical software, and essential methodological and practical issues that are involved in sophisticated spatial analyses.
Prerequisite: AMS 102 or equivalent and GSS 313 or GSS 317 or equivalent
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Prerequisite: U3 or U4 status or permission of the instructor
3 credits