## Environmental Studies (EVST)

### Courses

**EVST 001 Introduction to Environmental Studies 4 Credits**

This course surveys the dominant environmental issues confronting humanity and the natural world on a local, national, and global basis with an emphasis on critical thinking skills. Topics include humankind's role in environmental change; cultural perceptions and economic valuation of nature; resource availability and social equity; sustainability and consumerism; environmental justice and ethics; and environmental regulation, law, policy and planning. This course fulfills a social science credit requirement. Please select ES 002 to fulfill the natural science requirement.

**EVST 002 (EES 002, ES 002) Introduction to Environmental Science 3 Credits**

Focuses on natural and human-induced drivers and consequences of environmental change. Exploring options for mitigating and adapting to environmental change in ecosystems, physical and natural systems, the course examines such topics as biogeochemical cycles, population pressure, ecosystem diversity, productivity and food security, energy, water resources, climate change, pollution, ozone, urban issues and sustainability. Stresses interactions using case studies. Intended for any student with an interest in the environment. May be combined with EES 022 or EES 004 for 4 credits.

**EVST 004 (EES 004, ES 004) The Science of Environmental Issues 1 Credit**

Analysis of current environmental issues from a scientific perspective. The focus on the course will be weekly discussions based on assigned readings. May be combined with other EES 3 credit courses for 4 credits.

**EVST 104 (ES 104) Political and Environmental Geography 4 Credits**

Geographical foundations of political phenomena and human impacts on the environment. Global focus on geographic influences on growth and development of states and empires, the nature and impact of borders, how people have altered pattern of climate, hydrology, landforms, soils, and biota.

**EVST 105 (ES 105, POLS 105) US Environmental Policy and Law 4 Credits**

Analysis of the framework that has been established to protect the environment and promote sustainable growth. Focus on the roles of the different branches of the U.S. government and the relative responsibilities of state and local governments within this framework. Consideration of the political nature of environmental issues and the social forces influencing environmental protection in different areas of domestic environmental policy, such as climate change, toxic waste disposal, and natural resources conservation.

**EVST 121 (ANTH 121, ES 121) Environment and Culture 4 Credits**

Impact of environment upon cultural variability and change. Comparative study of modern and past cultures and their environments as well as current theories of human/environmental interaction.

**EVST 122 (ES 122) Sustainable Development: Costa Rican Experience 3 Credits**

Case studies in agriculture, bio-prospecting, ecotourism, energy, and land use are used to conceptualize sustainable development in Costa Rica. Theories of sustainable development and consumption frame the Costa Rican experience and include the influences of history, ecology, and political, social, and economic systems. This course is offered through Lehigh Study Abroad and requires travel to Costa Rica during the winter session. Additional fees are required by Lehigh Study Abroad.

**EVST 123 Sustainability in Action 1-4 Credits**

First semester of a full year of experiential learning about sustainability in both theory and practice that examines political, economic and social effects of changing earth systems through global, national and local lenses. Topics include natural resource consumption, wealth inequality, and uneven globalization. Students create and implement initiatives in the Lehigh and broader communities intended to create a more sustainable and just world. Offered in coordination with the Campus Eco-Reps program. Instructor permission required.

**Repeat Status:** Course may be repeated.

**EVST 124 Sustainability in Action II 1-4 Credits**

Continuation of EVST 123 for a full year of experiential learning about sustainability in both theory and practice that examines political, economic and social effects of changing earth systems through global, national and local lenses. Topics include natural resource consumption, wealth inequality, and uneven globalization. Students create and implement initiatives in the Lehigh and broader communities intended to create a more sustainable and just world. Offered in coordination with the Campus Eco-Reps program. Instructor permission required.

**Repeat Status:** Course may be repeated.

**EVST 127 (ES 127) Urban Permaculture 1-4 Credits**

Students combine social, political, economic, engineering, and ecological modes of thinking in the design, construction, and evaluation of permaculture food gardens to serve as living laboratories and interactive classrooms to teach about sustainable urban living. Open to students from any major and college. Instructor permission required.

**Repeat Status:** Course may be repeated.

**EVST 170 Special Topics 1-4 Credits**

Intensive, research-oriented study of a subject or issue in Environmental Studies not covered in other courses. For students of demonstrated ability and adequate preparation. Consent of program director required.

**Repeat Status:** Course may be repeated.

**EVST 181 Independent Study 1-4 Credits**

This course can be 1) directed readings on an environmental topic, 2) environmental research involving primary data collection and analysis, or 3) a project-based experience that puts students' understanding of environmental justice, environmental health, or environmental planning into practice. Consent of program director required.

**Repeat Status:** Course may be repeated.

**EVST 223 Advanced Sustainability in Action I 1-4 Credits**

Leadership and coordination of Sustainability in Action projects and activities for students in EVST 123. Experienced students who have completed the year-long Sustainability in Action sequence (EVST 123 and EVST 124) continue in course coordination role. Offered in coordination with the Campus Eco-Reps Program. Consent of instructor required.

**Repeat Status:** Course may be repeated.

**Prerequisites:** EVST 123 and EVST 124

**EVST 224 Advanced Sustainability in Action II 1-4 Credits**

Continuation of EVST 223. Leadership and coordination of Sustainability in Action projects and activities for students in EVST 124. Experienced students who have completed the year-long Sustainability in Action sequence (EVST 123 and EVST 124) continue in course coordination role. Offered in coordination with the Campus Eco-Reps Program. Consent of instructor required.

**Repeat Status:** Course may be repeated.

**Prerequisites:** EVST 223
EVST 294 (ES 294) Practicum in Environmental Studies 1-4 Credits
Practical experience on or off campus in local, state or national environmental activities. Students must present a work plan that describes the activities included in the practicum, the activity’s sponsor, expected outcomes and the number of credits requested. Must have program director’s approval.
Repeat Status: Course may be repeated.
Prerequisites: ES 001 and ES 002 and (ES 105 or ES 107 or ES 110 or ES 121 or ES 125)
Can be taken Concurrently: ES 001, ES 002, ES 105, ES 107, ES 110, ES 121, ES 125

EVST 301 (ES 301, PHIL 301) Philosophical-Policy & Legal Design: Methods & Applications 4 Credits
A basic class on the idea of policy design, as opposed to standard economic analysis of public policy and its application to various domestic and international areas of law, including environmental law. The course will introduce Philosophical-Policy Methods, or the protocol employing integrated philosophical systems to justify specific policy-legal design arguments, through the use of a variety of distinct policy paradigms.

EVST 305 (AAS 305, ES 305, POLS 305) Residential Segregation: Policies and Practices 4 Credits
This course is an introductory planning course, with an emphasis on housing and community development policy. It will examine historical and contemporary aspects of urban politics; the economic, demographic, and spatial evolution of American cities; and various urban problems, such as the spatial mismatch between people and jobs, housing quality and affordability, and residential segregation. Finally, the course will review how planners have addressed conditions in cities and regions over time.

EVST 310 (ES 310, SDEV 310) Foundations of Sustainable Development Practice 4 Credits
This course introduces students to the foundational themes of sustainable development, including food and nutritional security, social service delivery, energy policy, water resource management, urbanization, infrastructure, human rights, biodiversity, adaptation to climate change, greenhouse gas reductions, and sustainable business and governance. Students are mentored by Lehigh faculty as they engage with world leaders in sustainability through the Global Classroom, an instructional platform pioneered by Columbia University and the Global Masters of Development Practice Association (http://globalmdp.org/).

EVST 312 (ES 312, POLS 312) Urban Environmental Policy Workshop 4 Credits
An urban environmental planning and policy course in which students explore an issue affecting the local community, evaluate current policy responses and possible alternatives, and present recommendations to public officials, local organizations, and community members. Student research and analysis will draw on primary and secondary data, as well as feedback from conducting individual interviews, focus groups, and community meetings. Prior projects include determining how Bethlehem’s new City Revitalization improvement Zone (CRIZ) might best benefit the South Side of Bethlehem, PA.

EVST 366 (ES 366, POLS 366) Advanced Environmental Policy 4 Credits
An introduction to the history of domestic environmental policy and contemporary policy trends, such as the rise of legal adversarialism and public participation in regulatory decisions. The role of market instruments in policy implementation, the emergence of rights-based approaches to environmental protection, and the role and value of distributional analysis will also be covered. Students will develop knowledge of a particular area of environmental policy at the federal, state, and/or level depending on their interests and current opportunities.
Prerequisites: POLS 105 or ES 105

EVST 371 Special Topics 1-4 Credits
Intensive, research-oriented study of a subject or issue in Environmental Studies not covered in other courses. For students of demonstrated ability and adequate preparation. Consent of program director required.
Repeat Status: Course may be repeated.

EVST 391 Honors Thesis 1-4 Credits
Directed undergraduate research thesis required of students who apply and qualify for graduation with program honors. Consent of program director required.
Repeat Status: Course may be repeated.

EVST 393 (ES 393) Supervised Internship 1-4 Credits
Experiential learning opportunities supervised by ES faculty including real-world experience with environmental organizations or governmental agencies, field work or research experience, all related to environmental studies. Students should collaborate with the supervising ES faculty member to develop a work plan that describes the activities included in the internship, the expected outcomes and the number of credits requested. Instructor permission required.
Repeat Status: Course may be repeated.
Prerequisites: ES 001 and ES 002 and (ES 105 or ES 107 or ES 110 or ES 121 or ES 125)

EVST 401 (ES 401) Philosophical-Policy & Legal Design: Methods & Applications 3 Credits
A basic class on the idea of policy design, as opposed to standard economic analysis of public policy and its application to various domestic and international areas of law, including environmental law. The course will introduce the idea of Philosophical-Policy Methods, or the protocol employing integrated philosophical systems to justify specific policy-legal design arguments, through the use of a variety of distinct policy paradigms.

EVST 405 (ES 405, POLS 405) Residential Segregation: Policies and Practices 3 Credits
This course is an introductory planning course, with an emphasis on housing and community development policy. It will examine historical and contemporary aspects of urban politics; the economic, demographic, and spatial evolution of American cities; and various urban problems, such as the spatial mismatch between people and jobs, housing quality and affordability, and residential segregation. Finally, the course will review how planners have addressed conditions in cities and regions over time.

EVST 410 (ES 410) Foundations of Sustainable Development Practice 3 Credits
This course introduces students to the foundational themes of sustainable development, including food and nutritional security, social service delivery, energy policy, water resource management, urbanization, infrastructure, human rights, biodiversity, adaptation to climate change, greenhouse gas reductions, and sustainable business and governance. Students are mentored by Lehigh faculty as they engage with world leaders in sustainability through the Global Classroom, an instructional platform pioneered by Columbia University and the Global Masters of Development Practice Association (http://globalmdp.org/).

EVST 412 (ES 412, POLS 412) Urban Environmental Policy Workshop 3 Credits
An urban environmental planning and policy course in which students explore an issue affecting the local community, evaluate current policy responses and possible alternatives, and present recommendations to public officials, local organizations, and community members. Student research and analysis will draw on primary and secondary data, as well as feedback from conducting individual interviews, focus groups, and community meetings. Prior projects include determining how Bethlehem’s new City Revitalization improvement Zone (CRIZ) might best benefit the South Side of Bethlehem, PA.
EVST 466 (ES 466, POLS 466) Advanced Environmental Policy 3
Credits
An introduction to the history of domestic environmental policy and
temporary policy trends, such as the rise of legal adversarialism
and public participation in regulatory decisions. The role of market
instruments in policy implementation, the emergence of rights-
based approaches to environmental protection, and the role and
value of distributional analysis will also be covered. Students will
develop knowledge of a particular area of environmental policy at the
federal, state, and/or level depending on their interests and current
opportunities.

EVST 480 (ES 480) Internship in Environmental Policy 3 Credits
Students will gain practical experience working with governmental or
non-governmental organizations or public officials formulating and/
or implementing environmental policies at local, regional, national or
international levels. Requires submission of a formal proposal drafted
in collaboration with a faculty advisor and the professional mentor
who will oversee the student’s internship. Upon completion of the
internship, students will report project outcomes in oral presentation,
written, or digital media format. Instructor permission required.
Repeat Status: Course may be repeated.

EVST 483 Independent Study 1-3 Credits
Independent Study.
Repeat Status: Course may be repeated.

EVST 490 Thesis 1-6 Credits
Thesis.