

Environmental Studies & Environmental Policy

Website: <http://ei.cas.lehigh.edu/> (<http://ei.cas2.lehigh.edu/>)

Environmental Studies and the M.A. Program in Environmental Policy brings together faculty from the social sciences, natural sciences and humanities to deliver an interdisciplinary academic curriculum that prepares students for careers in environmental fields, and more broadly, for environmental citizenship. The curriculum includes courses from all five colleges and 10 departments in social sciences, humanities, education, science, mathematics and engineering. Students can earn an undergraduate BA degree in Environmental Studies, an undergraduate minor in Environmental Studies, and a graduate MA degree in Environmental Policy.

UNDERGRADUATE STUDIES

Website: <http://ei.cas.lehigh.edu/> (<http://ei.cas2.lehigh.edu/>)

Students in the Environmental Studies Bachelor of Arts (BA) program combine social science, humanities and natural science perspectives to explore the cultural, economic, historical, political and social factors that influence local, national, international and global environmental problems and solutions. Environmental Studies students develop a broad understanding of environmental issues, as well as specialized skills and knowledge in one of three concentrations: Health; Policy, Planning and Law; or Politics and Society. Each concentration includes relevant skills courses and in-depth study of environmental topics to help students prepare for a range of environmental careers.

The BA program prepares students for careers in fields such as environmental advocacy, environmental policy, urban planning, environmental health, environmental communication, environmental education, or environmental law. Careers can be found in federal, state and local government agencies, consulting companies, for-profit industries, nonprofit organizations, international non-governmental organizations, advocacy groups, online environmental communication sites and elsewhere. The program also prepares students for graduate studies in a number of environmental policy and social science fields including law.

The BA is designed to be broadly inclusive yet flexible enough to encourage double majors and minors in other fields. Double majors or minors in social science fields such as Anthropology; Sociology; Health, Medicine and Society; History; International Relations; Journalism; Political Science; or Psychology could easily be accomplished. Double majors or minors in the humanities in English; Art, Architecture and Design; Philosophy and Religion Studies can also be completed. The Environmental Studies BA degree complements existing BA and BS programs in Earth and Environmental Science. If students are not pursuing a double major, a minor in another field to complement the Environmental Studies major is highly recommended but not required.

The Environmental Studies BA is considered a social science major and most of its courses fulfill college social science distribution requirements.

Program Honors

To graduate with honors in the program, an Environmental Studies major must maintain a 3.2 overall grade point average, attain a 3.5 average in the courses constituting the major program, and complete an honors thesis in the senior year.

ENVIRONMENTAL STUDIES MAJOR

The Environmental Studies (EVST) major consists of four required courses (11 credits), two core courses (8 credits), and seven courses (24-28 credits) in a selected concentration. Students should select their preferred concentration preferably by their junior year. Two 300-level EVST courses are required. EVST majors are encouraged to double major or minor in another discipline that complements their concentration or the Environmental Studies program in general.

BA ENVIRONMENTAL STUDIES

Required Courses ¹

EVST 001	Introduction to Environmental Studies	4
EVST/EES 002	Introduction to Environmental Science	3

EES 022	Exploring Earth: A Natural Science Laboratory Course	1
EES 023	Weather and Climate: Past, Present, and Future	3
or EES 024	Earth's Climate from the Dinosaurs to the Day After Tomorrow	
or EES 025	Observing and Studying Nature	
or EES 026	Energy – Origins, Impacts, and Options	
or EES 027	Natural Hazards: Impacts and Consequences	
or EES 028	Conservation and Biodiversity	
or EES 029	Human Health and the Environment	
2	or another science course approved by the faculty advisor.	

Core Courses ³

Select two of the following:	8
EVST/POLS 105	US Environmental Policy and Law
EVST/POLS 107	The Politics of the Environment
EVST/POLS/HMS 110	Environmental Planning for Healthy Cities
EVST/ANTH 121	Environment and Culture
HIST/EVST 315	American Environmental History

300-level courses

Two EVST courses at the 300-level are required.

Internships and Practicums

Students are encouraged to participate in at least one practicum or internship experience. Faculty permission and direct supervision is required for EVST 393. Practicum course enrollments in EVST 294 must be approved for credit by the Program Director. A maximum of 8 internship or practicum credits can be counted toward the major as electives within concentrations.

Suggested Math Courses

MATH 012	Basic Statistics and Data Science
or MATH 021	Calculus I

Concentrations 24-28

There are three concentrations in the Environmental Studies major intended to serve a variety of different student interests and possible career choices. Each concentration has a skills, content, and elective section. Preferably by their junior year, students will select one of the concentrations for their major program: 1) Health, 2) Policy, Planning & Law, or 3) Politics & Society. Many courses are found in more than one concentration, and while switching between concentrations is discouraged, it is possible if needed. In special cases, courses can be substituted within concentrations with the permission of the faculty advisor or program director. At least three EVST courses must be taken in a concentration and at least one required content course in a concentration must be a 3-4 credit EVST course. Elective courses can be from the skills, content, or elective areas within a concentration.

Total Credits 43-47

1

Students who are completing either a major or minor in Earth and Environmental Science (EES) need not take any of three required natural science courses to complete their EVST degree.

2

A science course taken as a required course cannot be used to fulfill a concentration requirement.

3

Selected core courses cannot be used to fulfill concentration requirements.

CONCENTRATION: HEALTH

The Health Concentration is geared toward students who are interested in learning about the interconnections between health and environmental impacts, particularly how environmental degradation can affect age groups, races and countries. It includes mitigation of environmental pollution and degradation, impacts on food resources, and the effects that natural and built environments have on people's mental and physical health.

Required Skills Courses (choose 2)		6-8
EVST/POLS 319	Mapping Data for Policymaking	4
EVST/TLT 367	Environmental Education	3
EVST/TLT 368	Teaching and Learning with Geospatial Tools	3
EVST/TLT 369	Applied Geospatial Tools	3
ANTH 214	How to Study Culture	4
CEE 272	Environmental Risk Assessment	2
CGH 106	Qualitative Methods in Health Research	3
CGH 375	Community Based Participatory Research Methodology	3-4
DOC/FILM 150	Introduction to Documentary Storymaking	4
SOC 211	Research Methods and Data Analysis	4
SOC 226	Text Analysis for the Social Sciences	4
Required Content Courses (choose 2) ¹		7-8
EVST/HMS/POLS 110	Environmental Planning for Healthy Cities	4
EVST/ANTH/GS 353	Ethnobotany: People and Plants	4
CGH 103	Biological & Environmental Determinants of Health	4
CGH 108	Food Justice	3
CGH 313	Health Policy and Politics	3
EES 029	Human Health and the Environment	3
HMS/PHIL/REL 116	Bioethics	4
POPH 001	Introduction to Population and Public Health	4
POPH 106	Global Environment and Human Welfare	3
Elective Courses (choose 3) ²		11-12
EVST 127	Urban Permaculture	1-4
EVST 180	Independent Study	1-4
EVST 191	Special Topics	1-4
EVST 294	Practicum in Environmental Studies	1-4
EVST/ANTH 304	Socio-cultural Foundations of Environmental Policy	4
EVST 310	Foundations of Sustainable Development Practice	4
EVST/PSYC 357	Psychology of Environmental Issues	4
EVST/SOC/GS 370	Globalization and the Environment	4
EVST 371	Honors Thesis	1-4
EVST 391	Special Topics	1-4
EVST 393	Supervised Internship	1-4
ANTH 377	Archaeology Of Death	4
ECO 311	Environmental Economics	3
CGH 103	Biological & Environmental Determinants of Health	4
CGH 108	Food Justice	3
CGH 313	Health Policy and Politics	3
CGH 316	Global Environmental Disasters & Policy	3
CGH 375	Community Based Participatory Research Methodology	3-4
EES 027	Natural Hazards: Impacts and Consequences	3

ENGL/EVST 341	Contemporary US Literature of Environmental Crises	3-4
HMS/ENGL 115	Topics in Literature, Medicine, and Health	4
HMS/COMM 150	Health Communication	4
HMS/ENGL 315	Topics in Literature, Medicine, and Health	4
HMS/GS/SOC 322	Global Health Issues	4
POPH 106	Global Environment and Human Welfare	3

1

One course must be a 3-4 credit EVST course.

2

Can include any required skills or content courses not taken in another part of the concentration or the core courses.

CONCENTRATION: POLICY, PLANNING & LAW

The Policy, Planning and Law Concentration is geared toward students who are interested in learning about local, national and international regulations and programs designed to conserve the natural environment, to ensure that cities and neighborhoods are built in sustainable ways, and to protect vulnerable groups from bearing the brunt of environmental hazards.

Required Skills Courses (choose 2)		6-8
EVST/POLS 319	Mapping Data for Policymaking	4
EVST/TLT 367	Environmental Education	3
ANTH 214	How to Study Culture	4
CEE 272	Environmental Risk Assessment	2
CGH 106	Qualitative Methods in Health Research	3
CGH 375	Community Based Participatory Research Methodology	3-4
ECO 001	Principles of Economics	4
POLS 321	Research Methods	4
SOC 211	Research Methods and Data Analysis	4
SOC 226	Text Analysis for the Social Sciences	4
Required Content Courses (choose 2) ¹		7-8
EVST 105	US Environmental Policy and Law	4
EVST/POLS 106	Environmental Values and Ethics	4
EVST/POLS 107	The Politics of the Environment	4
EVST/ANTH 304	Socio-cultural Foundations of Environmental Policy	4
EVST/POLS 312	Urban Environmental Policy Workshop	4
EVST/HIST 315	American Environmental History	4
EVST/POLS 328	U.S. Politics and the Environment	4
EVST/POLS 355	Environmental Justice: From Theory to Practice	4
EVST/POLS 366	Advanced Environmental Policy	4
EVST/SOC/GS 370	Globalization and the Environment	4
Elective Courses (choose 3) ²		11-12
EVST/HMS/POLS 110	Environmental Planning for Healthy Cities	4
EVST/ANTH 121	Environment and Culture	4
EVST 127	Urban Permaculture	1-4
EVST 180	Independent Study	1-4
EVST 191	Special Topics	1-4
EVST 294	Practicum in Environmental Studies	1-4
EVST 305	Residential Segregation: Policies and Practices	4
EVST 310	Foundations of Sustainable Development Practice	4
EVST/POLS 311	Environmental Valuation for Policy Design	4

EVST/POLS 312	Urban Environmental Policy Workshop	4
EVST 323	Health and Environmental Controversies	4
EVST/POLS 328	U.S. Politics and the Environment	4
ENGL/EVST 341	Contemporary US Literature of Environmental Crises	3-4
EVST/POLS 355	Environmental Justice: From Theory to Practice	4
EVST/PSYC 357	Psychology of Environmental Issues	4
EVST/TLT 368	Teaching and Learning with Geospatial Tools	3
EVST/SOC/GS 370	Globalization and the Environment	4
EVST 371	Honors Thesis	1-4
EVST 391	Special Topics	1-4
EVST 393	Supervised Internship	1-4
ANTH/GS 126	Urban Anthropology	4
CGH 103	Biological & Environmental Determinants of Health	4
CGH 316	Global Environmental Disasters & Policy	3
ECO 311	Environmental Economics	3
EES 023	Weather and Climate: Past, Present, and Future	3
EES 027	Natural Hazards: Impacts and Consequences	3
ENGL/EVST 341	Contemporary US Literature of Environmental Crises	3-4
POLS 115	Technology As Politics	4
POLS 103	Introduction to Public Administration	4
POLS 115	Technology As Politics	4
POLS 347	Constitutional Law and Politics	4
POLS 352	Civil Rights and Civil Liberties	4
SOC/GS 319	The Political Economy of Globalization	4

1

One course must be a 3-4 credit EVST course.

2

Can include any required skills or content courses not taken in another part of the concentration or the core courses.

CONCENTRATION: POLITICS & SOCIETY

The Politics and Society Concentration is geared toward students who are interested in learning about how human-environment relationships are shaped by cultural practices, politics and broader social institutions, and how these cultural, political, and social factors might be changed to create more sustainable and socially just relationships.

Required Skills Courses (choose 2)		6-8
EVST 127	Urban Permaculture	1-4
EVST/PHIL 301	Philosophical-Policy & Legal Design: Methods & Applications	4
EVST/POLS 319	Mapping Data for Policymaking	4
EVST/TLT 367	Environmental Education	3
EVST/TLT 368	Teaching and Learning with Geospatial Tools	3
ANTH 214	How to Study Culture	4
ARCH/CEE 010	Engineering/Architectural Graphics and Design	3
CGH 375	Community Based Participatory Research Methodology	3-4
DOC/FILM 150	Introduction to Documentary Storymaking	4
ECO 001	Principles of Economics	4

ENGL 100	Working with Texts	4
POLS 321	Research Methods	4
SOC 211	Research Methods and Data Analysis	4
SOC 226	Text Analysis for the Social Sciences	4
Required Content Courses (choose 2) ¹		7-8
EVST/POLS 105	US Environmental Policy and Law	4
EVST/POLS 106	Environmental Values and Ethics	4
EVST/POLS 107	The Politics of the Environment	4
EVST/PHIL/ETH 119	Environmental Ethics	4
EVST/ANTH 121	Environment and Culture	4
EVST/ASIA/REL 254	Buddhism and Ecology	4
EVST/ANTH 304	Socio-cultural Foundations of Environmental Policy	4
EVST/POLS 312	Urban Environmental Policy Workshop	4
EVST/HIST 315	American Environmental History	4
EVST/POLS 328	U.S. Politics and the Environment	4
ENGL/EVST 341	Contemporary US Literature of Environmental Crises	3-4
EVST/POLS 355	Environmental Justice: From Theory to Practice	4
EVST/POLS 366	Advanced Environmental Policy	4
EVST/GS/SOC 370	Globalization and the Environment	4
CGH 108	Food Justice	3
Elective Courses (choose 3) ²		11-12
EVST 127	Urban Permaculture	1-4
EVST 180	Independent Study	1-4
EVST 191	Special Topics	1-4
EVST 294	Practicum in Environmental Studies	1-4
EVST 305	Residential Segregation: Policies and Practices	4
EVST 310	Foundations of Sustainable Development Practice	4
EVST/POLS 312	Urban Environmental Policy Workshop	4
EVST/ANTH/GS 353	Ethnobotany: People and Plants	4
EVST/PSYC 357	Psychology of Environmental Issues	4
EVST/SOC/GS 370	Globalization and the Environment	4
EVST 371	Honors Thesis	1-4
EVST 391	Special Topics	1-4
EVST 393	Supervised Internship	1-4
ANTH 377	Archaeology Of Death	4
CGH 316	Global Environmental Disasters & Policy	3
ECO 311	Environmental Economics	3
EES 029	Human Health and the Environment	3
ENGL 380	Contemporary American Literature	4
ENGL/EVST 341	Contemporary US Literature of Environmental Crises	3-4
GS 013	Religion and Food	4
HIST 008	Technology in Modern America	4
HIST/GS 101	Histories of Globalization	4
HIST/GS 107	Science and Technology in the Making of the Modern World	4
HMS/REL/PHIL 116	Bioethics	4
PHIL 128	Philosophy Of Science	4
POLS 115	Technology As Politics	4
POLS/AAS 230	Social Movements From the 1960s to Present	4
REL/GS 013	Religion and Food	4
SOC/AAS 313	Keep the Change: Social Movements in Society	4

SOC/GS 319	The Political Economy of Globalization	4
------------	--	---

1

One course must be a 3-4 credit EVST course.

2

Can include any required skills or content courses not taken in another part of the concentration or the core courses.

MINOR IN ENVIRONMENTAL STUDIES

A minor in Environmental Studies consists of four courses for a total of 15-16 credits.

MINOR IN ENVIRONMENTAL STUDIES

EVST 001	Introduction to Environmental Studies	4
----------	---------------------------------------	---

One additional course from the core set of courses for the major	3-4
--	-----

Two additional EVST courses at the 100-level or above.	8
--	---

Total Credits	15-16
----------------------	--------------

M.A. ENVIRONMENTAL POLICY

Website: <https://programs.cas.lehigh.edu/evst/graduate> (<https://programs.cas.lehigh.edu/evst/graduate/>)

We are in a pivotal time for confronting environmental problems and developing the institutions, norms, and policies necessary to create the communities and world we want to live in. The Master of Arts (MA) in Environmental Policy prepares students to act on the challenges presented by climate change, loss of biodiversity, urbanization, and environmental pollution. The program's interdisciplinary coursework covers the legal and political structures that do (or might) oversee, regulate, manage, subsidize, or otherwise affect environmental sustainability, environmental inequity, and environmental health. It also teaches students about the social practices, political authority and economic dynamics that can affect interventions. Coursework develops students' skills in critical thinking and policy analysis. Pragmatic skills are developed through independent research and community-based projects and internships.

Applicants for the MAEP will be placed into one of three tracks (Thesis, Internship or Community Fellows).

MA ENVIRONMENTAL POLICY

Core Courses	9
---------------------	----------

EVST/EES 402	Scientific Foundations for Environmental Policy Design	3
--------------	--	---

EVST 404	Socio-cultural Foundations of Environmental Policy	3
----------	--	---

or EVST/POLS 466	Advanced Environmental Policy	
------------------	-------------------------------	--

POLS 402	Methods Of Policy Analysis	3
----------	----------------------------	---

or POLS 434	Quantitative Applications in Political Science	
-------------	--	--

or POLS 463	Public Opinion Research	
-------------	-------------------------	--

Elective Courses ¹	15-18
--------------------------------------	--------------

CEE 471	Environmental Risk Assessment	
---------	-------------------------------	--

CGH 316	Global Environmental Disasters & Policy	
---------	---	--

ECO 303	Economic Development	
---------	----------------------	--

EES 318	Geographic Analysis in EES	
---------	----------------------------	--

EES 325	Remote Sensing of Terrestrial and Aquatic Environments	
---------	--	--

EVST/TLT 368	Teaching and Learning with Geospatial Tools	
--------------	---	--

EVST/POLS 405	Residential Segregation: Policies and Practices	
---------------	---	--

EVST 410	Foundations of Sustainable Development Practice	
----------	---	--

EVST/POLS 411	Environmental Valuation for Policy Design	
---------------	---	--

EVST/POLS 412	Urban Environmental Policy Workshop	
---------------	-------------------------------------	--

EVST/POLS 419	Mapping Data for Policymaking
EVST 453	Ethnobotany: People and Plants
EVST/POLS 455	Environmental Justice: From Theory to Practice
EVST/POLS 460	Public Administration
EVST/POLS 466	Advanced Environmental Policy
EES 446	Human-Climate Interactions
POLS/GS/WGSS 342	Gender and Third World Development
POLS 468	Political Economy
POPH 317	Urban Greenspace and Health
SOC/GS 319	The Political Economy of Globalization
SOC/GS/HMS 322	Global Health Issues

Tracks	3-6
---------------	------------

Thesis track ²

EVST 490	Thesis
----------	--------

Internship Track ³

EVST 480	Internship in Environmental Policy
----------	------------------------------------

Community Fellows Track ⁴

A one year Master's Program in which students work for 15 hours a week in a non-profit organization as part of their academic experience. Please see the program website at www.lehigh.edu/communityfellows.

POLS 464	Community Fellowship I
----------	------------------------

POLS 465	Community Fellowship II
----------	-------------------------

1

Electives selected from the approved list may include one additional course (up to a total of 3 credit hours) from the **Core courses** category of required courses. Students are urged to select electives which allow for concentrated study in a particular area of academic interest.

2

Required Core courses (9 credits) + Elective courses (15-18 credits) + EVST 490 Thesis (3-6 credits) = Total 30-33 credits

3

Required Core courses (9 credits) + Elective courses (15-18 credits) + EVST 480 Internship in Environmental Policy (3-6 credits) = Total 30-33 credits

4

Required Core courses (9 credits) + Elective courses (15 credits) + POLS 464 Community Fellowship I (3 credits) + POLS 465 Community Fellowship II (3 credits) = 30 credits

CONCENTRATIONS WITHIN EP

The EP program provides students the opportunity to explore and focus on a variety of areas of academic and/or professional interest.

In the table below are examples of five possible concentrations that are especially suited to faculty expertise and program resources.

A total of 12-15 credits of electives comprise each concentration, plus a related internship experience or thesis topic. Students are also eligible to receive a "Graduate Certificate" in any of these concentration areas (see certificate program below).

Concentration in Environmental Policy and Planning

EVST/POLS 405	Residential Segregation: Policies and Practices
---------------	---

EVST/POLS 412	Urban Environmental Policy Workshop
---------------	-------------------------------------

EVST/POLS 455	Environmental Justice: From Theory to Practice
---------------	--

EVST/POLS 466	Advanced Environmental Policy
---------------	-------------------------------

POLS 468	Political Economy
----------	-------------------

Concentration in Sustainable Development

CGH 316	Global Environmental Disasters & Policy
---------	---

ECO 303	Economic Development
EES 446	Human-Climate Interactions
EVST 410	Foundations of Sustainable Development Practice
EVST 453	Ethnobotany: People and Plants
POLS/GS/WGSS 342	Gender and Third World Development
SOC/GS 319	The Political Economy of Globalization

Concentration in Environmental Health

EVST 453	Ethnobotany: People and Plants
EVST/POLS 455	Environmental Justice: From Theory to Practice
POLS 473	Globalization and Social Well-Being
SOC/GS/HMS 322	Global Health Issues
POPH 317	Urban Greenspace and Health

Concentration in Environmental Justice

EVST/POLS 405	Residential Segregation: Policies and Practices
EVST/POLS 455	Environmental Justice: From Theory to Practice
POLS 358	Interest Groups, Power, and Democracy in American Politics
POLS 473	Globalization and Social Well-Being

GRADUATE CERTIFICATE PROGRAMS

Each graduate certificate requires a minimum of 12 credit hours (4 courses) from the list of EP core and elective courses specific to each area of study. A graduate of the EP program is only eligible to receive **ONE** of the following certificates. Certificate courses can be counted towards the master's, as appropriate, and must be completed in a maximum of 3 years.

For more information about applying for the certificate, visit the website here. (<https://programs.cas.lehigh.edu/evst/graduate/>)

ENVIRONMENTAL POLICY AND PLANNING

GRADUATE CERTIFICATE IN ENVIRONMENTAL POLICY AND PLANNING

Core Course 3

EVST 404	Socio-cultural Foundations of Environmental Policy
or EVST/POLS 466	Advanced Environmental Policy

Elective Courses ¹ 9

EVST/POLS 405	Residential Segregation: Policies and Practices
EVST/POLS 411	Environmental Valuation for Policy Design
EVST/POLS 412	Urban Environmental Policy Workshop
EVST/POLS 455	Environmental Justice: From Theory to Practice
EES 446	Human-Climate Interactions
POLS 468	Political Economy

Total Credits 12

¹

Additional courses selected in consultation with the program adviser may fulfill program requirements. No more than 6 credits can be taken at the 300 level.

ENVIRONMENTAL HEALTH

GRADUATE CERTIFICATE IN ENVIRONMENTAL HEALTH

Core Courses 3

EVST 404	Socio-cultural Foundations of Environmental Policy
----------	--

or EVST/POLS 466	Advanced Environmental Policy
------------------	-------------------------------

Elective Courses ¹ 9

EVST/POLS 420	Food Justice in Urban Environments
EVST 453	Ethnobotany: People and Plants
EVST 455	Environmental Justice: From Theory to Practice
EES 446	Human-Climate Interactions
POLS 473	Globalization and Social Well-Being
POPH 317	Urban Greenspace and Health
SOC/GS/HMS 322	Global Health Issues

Total Credits 12

¹

Additional courses selected in consultation with the program adviser may fulfill program requirements. No more than 6 credits can be taken at the 300 level.

ENVIRONMENTAL JUSTICE

GRADUATE CERTIFICATE IN ENVIRONMENTAL JUSTICE

Core Courses 3

EVST 455	Environmental Justice: From Theory to Practice
----------	--

Elective Courses ¹ 9

POLS 358	Interest Groups, Power, and Democracy in American Politics
EVST/POLS 405	Residential Segregation: Policies and Practices
EES 446	Human-Climate Interactions
POLS 349	Greed: Social Policy for Profit
POLS 473	Globalization and Social Well-Being

Total Credits 12

¹

Additional courses selected in consultation with the program adviser may fulfill program requirements. No more than 6 credits can be taken at the 200/300 level.

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.

Attribute/Distribution: CC, SS, SW, W

EVST 002 (EES 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 social 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.

Attribute/Distribution: CC, NS, NW

EVST 006 (HIST 006) Global Environmental Histories 4 Credits

This course explores how environmental forces have shaped the history of modern societies and how societies have shaped their environments. By examining interconnected global case studies, we will explore key themes through the lens of environment, including empire, industrialization, borders, and gender. We will encounter histories of pollution, resource extraction and its afterlife, cultural understandings of nature, animals and insects, natural disasters, and the toxic legacy of war.

Attribute/Distribution: CC, SS, SW, W

EVST 080 Independent Study 1-4 Credits

Independent work, research, and/or reading with a faculty member.

Repeat Status: Course may be repeated.

EVST 091 Special Topics 1-4 Credits

Intensive study of a topic of special interest not covered in other courses.

Repeat Status: Course may be repeated.

Attribute/Distribution: CC, HE, NW, SS, SW

EVST 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.

Attribute/Distribution: CC, SS, SW, W

EVST 106 (POLS 106) Environmental Values and Ethics 4 Credits

An introduction to ethics and values that shape human relationships to the natural environment. What are the moral implications of these relationships for non-human life and natural systems? How can justice and democracy correct unethical treatment of non-humans? What policy responses to environmental problems are morally or politically justifiable? The course explores ethical ideas from different schools of environmental thought, such as sentientism, ecocentrism, and biocentrism, and ideas that emerge from social movements, such as environmental justice and urban sustainability.

Attribute/Distribution: CC, HE, SS, W

EVST 107 (POLS 107) The Politics of the Environment 4 Credits

A survey of the major environmental, resource, energy and population problems of modern society, focusing on the United States. The politics of man's relationship with nature, the political problems of ecological scarcity and public goods, and the response of the American political system to environmental issues.

Attribute/Distribution: CC, SS, SW

EVST 108 (HIST 108) Climate and Energy in Modern History 4 Credits

This course examines the historical roots of the climate emergency. Focused on the history of energy, we will explore how empire, industrialization, and fossil fuels remade societies around the world in the 19th and 20th centuries. Through global case studies, we will encounter histories of energy regimes, extractivism, plastics, electricity, wildfires, weather events, disasters and disaster response, and the emergence and suppression of climate science and climate politics.

Attribute/Distribution: SUST, SW, W

EVST 110 (HMS 110, POLS 110) Environmental Planning for Healthy Cities 4 Credits

An introduction to the topic of environmental planning, the course will review the roles of citizens, other stakeholders, political interests, and local governments in determining the use of land; unpack the meaning of "sustainability;" and grapple with the challenge of balancing communities' demand for development with the need to protect valuable natural resources. Students will be introduced to examples of successful and unsuccessful instances of environmental planning both at home and abroad.

Attribute/Distribution: CC, SS, SW

EVST 119 (ETH 119, PHIL 119) Environmental Ethics 4 Credits

Evaluates the ethical and moral dimensions of humanity's relationship to nature as well as our individual and collective moral duties to confront urgent environmental challenges. Topics may include the intersection of climate and social justice; responsibilities to future generations, distant others, and nonhuman animals; the limitations of traditional ethical, political, and economic frameworks for accommodating our obligations and commitments to justice; and possible legal and public policy responses.

Attribute/Distribution: CC, HE, HU

EVST 121 (ANTH 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.

Attribute/Distribution: CC, SS, SW, W

EVST 125 (JOUR 125) Environment, the Public and the Mass Media 4 Credits

Extensive exploration of local, national and international environmental problems and their social, political and economic impacts. Analysis of mass media coverage of complex environmental issues and the media's effects on public opinion and government environmental policies. Examination of environmental journalism principles and practices in the United States and around the world.

Attribute/Distribution: CC, SS, SW

EVST 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.

Attribute/Distribution: CC, SS, SW

EVST 180 Independent Study 1-4 Credits

Independent work, research, and/or reading with a faculty member.

Repeat Status: Course may be repeated.

EVST 191 Special Topics 1-4 Credits

Intensive study of a topic of special interest not covered in other courses.

Repeat Status: Course may be repeated.

Attribute/Distribution: CC, HE, NW, SS, SW

EVST 223 Advanced Sustainability in Action I 1-4 Credits

Experiential learning for students to engage with sustainability in both general theory and applied practice. Consent of program director required. May be offered in coordination with the Campus Eco-Reps Program. Consent of instructor required.

Repeat Status: Course may be repeated.

Attribute/Distribution: CC

EVST 254 (ASIA 254, ETH 254, REL 254) Buddhism and Ecology 4 Credits

Buddhism's intellectual, ethical, and spiritual resources are re-examined in light of contemporary environmental problems. Is Buddhism the most green of the major world religions? What are the moral implications of actions that affect the environment?

Attribute/Distribution: CC, HE, HU, W

EVST 280 Independent Study 1-4 Credits

Independent work, research, and/or reading with a faculty member.

Repeat Status: Course may be repeated.

EVST 291 Special Topics 1-4 Credits

Intensive study of a topic of special interest not covered in other courses.

Repeat Status: Course may be repeated.

Attribute/Distribution: CC, HE, NW, SS, SW

EVST 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

Attribute/Distribution: HU, NS, SS

EVST 300 Apprentice Teaching 1-4 Credits

Supervised participation in various aspects of the teaching of a course. Consent of instructor, department chairperson, and permission of the Dean required.

Repeat Status: Course may be repeated.

EVST 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.

Attribute/Distribution: CC, W

EVST 304 (ANTH 304) Socio-cultural Foundations of Environmental Policy 4 Credits

This course is based on the premise that social and ecological sustainability require new policy approaches. Drawing on social, organizational, and behavioral theory, students will learn techniques for analyzing and critiquing existing environmental policies and designing more effective policies. Case studies highlight how cultural values, social norms, public opinion and politics shape policies and their outcomes. We examine the entire policy process from how environmental problems are defined, to how organizations implement policies and how policies are evaluated.

Attribute/Distribution: CC, SS, SW, W

EVST 305 (AAS 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.

Attribute/Distribution: CC, SS, SW

EVST 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/>).

Attribute/Distribution: CC, SS, SW

EVST 311 (POLS 311) Environmental Valuation for Policy Design 4 Credits

Seminar on how to value the environment for the purpose of designing and analyzing environmental policies. Review of the "contingent valuation method" currently used to price environmental resources, and assessment of this method's empirical and normative strengths and weaknesses. Evaluation of "deliberative monetary valuation" as an improved method for environmental assessment. Consideration of non-monetary approaches to environmental valuation as alternatives to understanding the environment's relationship to human well-being in policy contexts.

Attribute/Distribution: SS

EVST 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.

Attribute/Distribution: CC, SS, SW, W

EVST 315 (HIST 315) American Environmental History 4 Credits

Relationship between Americans and their natural environment from the colonial period to the present: impact of European settlement, attitudes toward wilderness, role of technological development, rise of preservation and conservation movements, establishment of national parks, recent environmental protection legislation.

Attribute/Distribution: CC, HE, SS

EVST 319 (POLS 319) Mapping Data for Policymaking 4 Credits

This research methods course teaches students to highlight important conditions and trends – ones that warrant policymakers' attention – using publicly available data sources (like the Census). Conveying information in a clear and persuasive way, one that motivates decision-makers to act, is a key step in any policymaking process. Students will become familiar with these databases and proficient at generating charts, graphs and maps using Microsoft Excel, Microsoft Access, and ArcMAP (three programs central to most jobs in policy-related fields).

Attribute/Distribution: Q, SS

EVST 323 (HMS 323, JOUR 323) Health and Environmental Controversies 4 Credits

Exploration of health and environmental controversies from the perspectives of scientific uncertainty and mass media coverage. Examines genetic engineering, biotechnology, environmental health risks and nanotechnology. Includes discussion of ethical and social responsibilities and interactions with the public.

Attribute/Distribution: SS, SW

EVST 328 (POLS 328) U.S. Politics and the Environment 4 Credits

An examination of contemporary American politics and policy dealing with environmental issues. Current controversies in the legislative and regulatory areas will be covered to examine environmental issues and the political process. Significant portions of the course readings will be taken from government publications.

Attribute/Distribution: SS

EVST 341 (ENGL 341) Contemporary US Literature of Environmental Crises 3-4 Credits

This course addresses how contemporary US literature depicts toxic America and the environmental crises as well as the human (and other animal) tragedies that result from a variety of contemporary practices that deny connectivity to/dependence upon ecosystems. Students will engage with some of the most important novels written in the contemporary period that call readers to address human impact on the environment, to imagine alternative & less ruinous ways of being in the world, and to imagine more sustainable futures.

Attribute/Distribution: CC, HE, HU, W

EVST 353 (ANTH 353, GS 353) Ethnobotany: People and Plants 4 Credits

This course explores the meanings and uses given to plants by diverse cultures in their unique ecological settings. Ethnobotany combines botany and cultural anthropology to study how people classify, use, and manage plants for medicine, food, and ritual. This course introduces the history, methods, theory, and practical applications of ethnobotany, including plant conservation, sustainable development, and cultural survival. Special emphasis will be placed on learning to do ethnobotany through student research projects.

Attribute/Distribution: CC, SS, SW, W

EVST 355 (POLS 355) Environmental Justice: From Theory to Practice 4 Credits

This course explores the various ways in which environmental law and policy can have discriminatory effects. It examines the rise and evolution of environmental justice movement, and the impact of environmental justice claims on administration policies, especially at the federal level. Considering the role of politics in the ongoing struggle for environmental justice, it reviews theories of substantive and procedural justice, and uses them to consider strategies for advancing equity in environmental law and policy.

Prerequisites: POLS 105 or ES 105

Attribute/Distribution: CC, SS

EVST 357 (PSYC 357) Psychology of Environmental Issues 4 Credits

Environmental problems and solutions begin with the thoughts, feelings, and behaviors of individual people. We will examine Western ways of relating to nature and the beliefs people hold about it, how they reason about environmental issues, and how they perceive environmental risk and make decisions. We will also consider environmental communication and attitude and behavior change, exploring arenas ranging from patterns of consumption and recycling to climate change. Research methods for investigating these issues will be introduced.

Prerequisites: PSYC 001

Attribute/Distribution: CC, SS

EVST 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

Attribute/Distribution: CC, SS

EVST 367 (TLT 367) Environmental Education 3 Credits

Introductory environmental education course designed to prepare students to implement environmental education opportunities in formal and non-formal education settings. Topics include history and philosophy of environmental education, environmental laws and regulations, GIS, environmental issues and decision making, curriculum integration and environmental education teaching methodologies. This is a Web enhanced containing both online and fieldwork components.

EVST 368 (TLT 368) Teaching and Learning with Geospatial Tools 3 Credits

Exploration of geospatial tools, including but not limited to global positioning systems (GPS), geographic information systems (GIS), and related visualization tools (e.g. Google Earth). Application of these tools and techniques to instructional settings, including appropriate pedagogy and assessment. Not available for credit for students who have completed EVST/TLT 369.

EVST 369 (TLT 369) Applied Geospatial Tools 3 Credits

Introduction to geospatial tools--including but not limited to global positioning systems (GPS), geographic information systems (GIS), and related visualization tools (e.g. Google Earth)--and related concepts such as geo-databases, map projection, and remote sensing. Application of these tools and techniques to research, policy, business, public health, and communications. Not available to students who have taken EVST/TLT 368.

EVST 370 (GS 370, SOC 370) Globalization and the Environment 4 Credits

This course investigates how globalization has influenced society-nature relationships, as well as how environmental conditions influence the globalization processes, focusing on the rapidly evolving global economic and political systems that characterize global development dynamics and resource use. Particular attention is paid to the role of multi-national corporations, international trade, and finance patterns and agreements. Questions related to consumption, population, global climate change, toxic wastes, and food production/distribution are key themes.

Attribute/Distribution: CC, SS, SW, W

EVST 371 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.

Attribute/Distribution: HU, SS

EVST 380 Independent Study 1-4 Credits

Independent work, research, and/or reading with a faculty member.

Repeat Status: Course may be repeated.

EVST 391 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.

Attribute/Distribution: CC, HE, NW, SS, SW

EVST 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)

Attribute/Distribution: HU, NS, SS

EVST 394 Supervised Research 1-4 Credits

Research project under the direct supervision of a faculty member.

Repeat Status: Course may be repeated.

EVST 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 402 (EES 402) Scientific Foundations for Environmental Policy Design 3 Credits

This course explores the science behind the environmental issues that bear on policy process at local, national and global scales. The course delves into the science of selected environmental issues that have either arisen from anthropogenic activities, that impact social systems, or that help policy-makers understand the consequence of different policy options. The course consists of readings and discussions of timely topics and one major project.

EVST 404 Socio-cultural Foundations of Environmental Policy 3 Credits

This course is based on the premise that social and ecological sustainability require new policy approaches. Drawing on social, organizational, and behavioral theory, students will learn techniques for analyzing and critiquing existing environmental policies and designing more effective policies. Case studies highlight how cultural values, social norms, public opinion and politics shape policies and their outcomes. We examine the entire policy process from how environmental problems are defined, to how organizations implement policies and how policies are evaluated.

EVST 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 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 411 (POLS 411) Environmental Valuation for Policy Design 3 Credits

Seminar on how to value the environment for the purpose of designing and analyzing environmental policies. Review of the "contingent valuation method" currently used to price environmental resources, and assessment of this method's empirical and normative strengths and weaknesses. Evaluation of "deliberative monetary valuation" as an improved method for environmental assessment. Consideration of non-monetary approaches to environmental valuation as alternatives to understanding the environment's relationship to human well-being in policy contexts.

EVST 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 419 (POLS 419) Mapping Data for Policymaking 3 Credits

This research methods course teaches students to highlight important conditions and trends – ones that warrant policymakers' attention – using publicly available data sources (like the Census). Conveying information in a clear and persuasive way, one that motivates decision-makers to act, is a key step in any policymaking process. Students will become familiar with these databases and proficient at generating charts, graphs and maps using Microsoft Excel, Microsoft Access, and ArcMAP (three programs central to most jobs in policy-related fields).

EVST 420 (POLS 420) Food Justice in Urban Environments 3 Credits

This course will review how urban agriculture and city greening programs and policies are part of a growing movement working to strengthen neighborhoods, promote healthier living, and create more localized and sustainable food economies. This class will explore research and readings from multiple disciplines on these programs and policies, and will also delve into individual case studies that illustrate how efforts to improve food access, beautify vacant land, and reduce farm-to-table distances get creatively and successfully combined.

EVST 453 Ethnobotany: People and Plants 3 Credits

This course explores the meanings and uses given to plants by diverse cultures in their unique ecological settings. Ethnobotany combines botany and cultural anthropology to study how people classify, use, and manage plants for medicine, food, and ritual. This course introduces the history, methods, theory, and practical applications of ethnobotany, including plant conservation, sustainable development, and cultural survival. Special emphasis will be placed on learning to do ethnobotany through student research projects.

EVST 455 (POLS 455) Environmental Justice: From Theory to Practice 3 Credits

This course explores the various ways in which environmental law and policy can have discriminatory effects. It examines the rise and evolution of environmental justice movement, and the impact of environmental justice claims on administrative rule making at state and federal level. Reviewing the history of case law concerning environmental justice suits filed under the 1964 Civil Rights Act, it also examines the future of environmental justice in environmental law and policy.

EVST 457 (PSYC 457) Psychology of Environmental Issues 3 Credits

Environmental problems and solutions begin with the thoughts, feelings, and behaviors of individual people. We will examine Western ways of relating to nature and the beliefs people hold about it, how they reason about environmental issues, and how they perceive environmental risk and make decisions. We will also consider environmental communication and attitude and behavior change, exploring arenas ranging from patterns of consumption and recycling to climate change. Research methods for investigating these issues will be introduced.

EVST 460 (POLS 460) Public Administration 3 Credits

The nature of administration; problems of organization and management; public personnel policies; budgeting and budgetary system; forms of administrative responsibility.

EVST 466 (POLS 466) Advanced Environmental Policy 3 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.

EVST 470 Globalization and the Environment 3 Credits

This course investigates how globalization has influenced society-nature relationships, as well as how environmental conditions influence the globalization processes, focusing on the rapidly evolving global economic and political systems that characterize global development dynamics and resource use. Particular attention is paid to the role of multi-national corporations, international trade, and finance patterns and agreements. Questions related to consumption, population, global climate change, toxic wastes, and food production/distribution are key themes.

EVST 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.