

Environmental Initiative, Environmental Studies & Environmental Policy

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

The Environmental Initiative brings together faculty from the social sciences, natural sciences and humanities to deliver an interdisciplinary academic curriculum and promote environmental research and outreach. The curriculum includes courses in four colleges and 10 departments in social sciences, humanities, education, science, mathematics and engineering. The Environmental Initiative offers an undergraduate BA degree in Environmental Studies, an undergraduate minor in Environmental Studies and a graduate MA degree in Environmental Policy.

****The Environmental Studies subject code ES was recently changed to EVST.**

Those courses with subject code EVST are equivalent to the corresponding ES course. For example, the course EVST 002 fulfills the requirement for ES 002 in the Environmental Studies Program or any program listing ES 002 as a requirement.**

UNDERGRADUATE STUDIES

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

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

The BA program prepares students for a variety of 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.

****The Environmental Studies subject code ES was recently changed to EVST.**

Those courses with subject code EVST are equivalent to the corresponding ES course. For example, the course EVST 002 fulfills the requirement for ES 002 in the Environmental Studies Program or any program listing ES 002 as a requirement.**

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.

Required Courses

EVST 001	Introduction to Environmental Studies	4
EVST/EES 002	Introduction to Environmental Science	3
EES 022	Exploring Earth	1
EES 023	Weather and Climate: Past, Present, and Future	3
or EES 024	Climate Change	
or EES 025	The Environment and Living Systems	
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	
or another science course approved by the faculty advisor.		

Core Courses ²

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	
EVST/JOUR 125	Environment, the Public and the Mass Media	

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
or MATH 021	Calculus I

Concentrations **24-28**

There are four 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 sections. Preferably by their junior year, students will select one of the concentrations for their major program: 1) Health, 2) Humanities, 3) Policy, Planning & Law, or 4) 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

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

2

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
ANTH 114	How to Study Culture	4
CEE 272	Environmental Risk Assessment	2
CGH 106	Qualitative Methods in Health Research	3
DOC/FILM 150	Introduction to Documentary Storymaking	4
HMS/SOAN 120	Values and Ethics of Community-Engaged Research	4
HMS/SOC 316	Social Epidemiology	4
SOAN 111	Research Methods and Data Analysis	4
SOC 336	Computational Text Analysis	4

Required Content Courses (choose 2) ¹ **11-12**

EVST/HMS/POLS 110	Environmental Planning for Healthy Cities	4
EVST/ANTH 304	Socio-cultural Foundations of Environmental Policy	4
EVST/HMS/POLS 320	Food Justice in Urban Environments	4
EVST/JOUR/HMS 323	Health and Environmental Controversies	4
CGH 103	Biological & Environmental Determinants of Health	4
EES 029	Human Health and the Environment	3
HMS/PHIL/REL 116	Bioethics	4
HMS 180	Introduction to Public Health	4
POPH 106	Global Environment and Human Welfare	3

Elective Courses (choose 3) ² **7-8**

EVST 170	Special Topics	1-4
----------	----------------	-----

EVST 127	Urban Permaculture	1-4
EVST 181	Independent Study	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/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	Special Topics	1-4
EVST 391	Honors Thesis	1-4
EVST 393	Supervised Internship	1-4
ANTH 377	Archaeology Of Death	4
EES 027	Natural Hazards: Impacts and Consequences	3
HMS/ENGL 115	Topics in Literature, Medicine, and Health	4
HMS/COMM 150	Health Communication	4
HMS/AAS/GS/SOC 314	Infections and Inequalities: HIV, TB and Malaria in the Global South	4
HMS/ENGL 315	Topics in Literature, Medicine, and Health	4
HMS/GS/SOC 322	Global Health Issues	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: HUMANITIES

The Humanities Concentration offers an opportunity for students to explore contemporary environmental problems from philosophical, historical, artistic and literary frameworks, with an emphasis on fostering out-of-the-box thinking that can cut through hyper-politicized policy debates.

Required Skills Courses (choose 2) **6-8**

EVST/PHIL 301	Philosophical-Policy & Legal Design: Methods & Applications	4
EVST/TLT 367	Environmental Education	3
EVST/POLS 319	Mapping Data for Policymaking	4
ANTH 114	How to Study Culture	4
ARCH/CEE 010	Engineering/Architectural Graphics and Design	3
ARCH 043	Architectural Design I	4
DOC/FILM 150	Introduction to Documentary Storymaking	4
ENGL 100	Working with Texts	4
SOC 336	Computational Text Analysis	4

Required Content Courses (choose 2) ¹ **11-12**

EVST/POLS 106	Environmental Values and Ethics	4
EVST/PHIL/ETH 119	Environmental Ethics	4
EVST/REL/ASIA/ETH 254	Buddhism and Ecology	4
EVST/ANTH 304	Socio-cultural Foundations of Environmental Policy	4
EVST/HIST 315	American Environmental History	4
EVST/PHIL 342	International Law & Philosophical-Policy Design	4
EVST/PHIL 343	Comparative Environmental Law & Philosophical-Policy Design	4
ENGL 091	Special Topics	1-4
HMS/ENGL 115	Topics in Literature, Medicine, and Health	4

HMS/ENGL 315	Topics in Literature, Medicine, and Health	4
ENGL 380	Contemporary American Literature	4
Elective Courses (choose 3)²		7-8
EVST 170	Special Topics	1-4
EVST 181	Independent Study	1-4
EVST 294	Practicum in Environmental Studies	1-4
EVST/ANTH 304	Socio-cultural Foundations of Environmental Policy	4
EVST/POLS/AAS 305	Residential Segregation: Policies and Practices	4
EVST 310	Foundations of Sustainable Development Practice	4
EVST/HMS/POLS 320	Food Justice in Urban Environments	4
EVST/PSYC 357	Psychology of Environmental Issues	4
EVST/SOC/GS 370	Globalization and the Environment	4
EVST 371	Special Topics	1-4
EVST 391	Honors Thesis	1-4
EVST 393	Supervised Internship	1-4
ART 004	Three-Dimensional Design	4
EES 026	Energy – Origins, Impacts, and Options	3
ENGL 171	Writing for Audiences	4
HIST/GS 101	Histories of Globalization	4
PHIL 123	Aesthetics	4
PHIL 128	Philosophy Of Science	4
REL 006		4
REL/GS 013	Religion and Food	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: 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
EVST/TLT 368	Teaching and Learning with Geospatial Tools	3
ANTH 114	How to Study Culture	4
ECO 001	Principles of Economics	4
SOAN 111	Research Methods and Data Analysis	4
SOC 336	Computational Text Analysis	4

Required Content Courses (choose 2)¹ 11-12

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/AAS 305	Residential Segregation: Policies and Practices	4
EVST/POLS 312	Urban Environmental Policy Workshop	4
EVST/HIST 315	American Environmental History	4
EVST/POLS/HMS 320	Food Justice in Urban Environments	4
EVST/POLS 328	U.S. Politics and the Environment	4

EVST 331	Environmental Law I: Pollution & Risk Abatement	4
EVST/PHIL 343	Comparative Environmental Law & Philosophical-Policy Design	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 within one of the subconcentrations)²		7-8
PLANNING SUBCONCENTRATION		
EVST/HMS/POLS 110	Environmental Planning for Healthy Cities	4
EVST 127	Urban Permaculture	1-4
EVST 170	Special Topics	1-4
EVST 181	Independent Study	1-4
EVST 294	Practicum in Environmental Studies	1-4
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/POLS 355	Environmental Justice: From Theory to Practice	4
EVST/PSYC 357	Psychology of Environmental Issues	4
EVST/SOC/GS 370	Globalization and the Environment	4
EVST 371	Special Topics	1-4
EVST 391	Honors Thesis	1-4
EVST 393	Supervised Internship	1-4
ANTH/GS 126	Urban Anthropology	4
EES 027	Natural Hazards: Impacts and Consequences	3
POLS 115	Technology As Politics	4
POLS 348	Land Use, Growth Management, and the Politics of Sprawl	4

POLICY AND LAW SUBCONCENTRATION

EVST/ANTH 121	Environment and Culture	4
EVST 170	Special Topics	1-4
EVST 181	Independent Study	1-4
EVST 294	Practicum in Environmental Studies	1-4
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/HMS/JOUR 323	Health and Environmental Controversies	4
EVST/POLS 328	U.S. Politics and the Environment	4
EVST 331	Environmental Law I: Pollution & Risk Abatement	4
EVST/PHIL 343	Comparative Environmental Law & Philosophical-Policy Design	4
EVST/POLS 355	Environmental Justice: From Theory to Practice	4
EVST/PSYC 357	Psychology of Environmental Issues	4
EVST/SOC/GS 370	Globalization and the Environment	4
EVST 371	Special Topics	1-4
EVST 391	Honors Thesis	1-4
EVST 393	Supervised Internship	1-4
EES 023	Weather and Climate: Past, Present, and Future	3
POLS 103	Introduction to Public Administration	4

POLS 115	Technology As Politics	4
POLS 240	Law and Order. The Politics of Crime and Punishment	4
POLS 347	Constitutional Law and Politics	4
POLS 352	Civil Rights and Civil Liberties	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/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 012	Intro to Archaeology and Human Origins	4
----------	--	---

ANTH 114	How to Study Culture	4
----------	----------------------	---

DOC/FILM 150	Introduction to Documentary Storymaking	4
--------------	---	---

ECO 001	Principles of Economics	4
---------	-------------------------	---

POLS 321	Research Methods	4
----------	------------------	---

SOAN 111	Research Methods and Data Analysis	4
----------	------------------------------------	---

SOC 336	Computational Text Analysis	4
---------	-----------------------------	---

Required Content Courses (choose 2) ¹ 11-12

EVST/POLS 106	Environmental Values and Ethics	4
---------------	---------------------------------	---

EVST/POLS 107	The Politics of the Environment	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/AAS 305	Residential Segregation: Policies and Practices	4
-------------------	---	---

EVST/POLS 312	Urban Environmental Policy Workshop	4
---------------	-------------------------------------	---

EVST/HIST 315	American Environmental History	4
---------------	--------------------------------	---

EVST/POLS/HMS 320	Food Justice in Urban Environments	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/GS/SOC 370	Globalization and the Environment	4
-----------------	-----------------------------------	---

Elective Courses (choose 3) ² 7-8

EVST/EES 004	The Science of Environmental Issues	1
--------------	-------------------------------------	---

EVST 170	Special Topics	1-4
----------	----------------	-----

EVST 181	Independent Study	1-4
----------	-------------------	-----

EVST 127	Urban Permaculture	1-4
----------	--------------------	-----

EVST 294	Practicum in Environmental Studies	1-4
----------	------------------------------------	-----

EVST/POLS/AAS 305	Residential Segregation: Policies and Practices	4
-------------------	---	---

EVST 310	Foundations of Sustainable Development Practice	4
----------	---	---

EVST/POLS 312	Urban Environmental Policy Workshop	4
---------------	-------------------------------------	---

EVST/HMS/POLS 320	Food Justice in Urban Environments	4
-------------------	------------------------------------	---

EVST/HMS/JOUR 323	Health and Environmental Controversies	4
-------------------	--	---

EVST 331	Environmental Law I: Pollution & Risk Abatement	4
----------	---	---

EVST/PHIL 343	Comparative Environmental Law & Philosophical-Policy Design	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	Special Topics	1-4
----------	----------------	-----

EVST 391	Honors Thesis	1-4
----------	---------------	-----

EVST 393	Supervised Internship	1-4
----------	-----------------------	-----

ANTH 377	Archaeology Of Death	4
----------	----------------------	---

EES 029	Human Health and the Environment	3
---------	----------------------------------	---

ENGL 380	Contemporary American Literature	4
----------	----------------------------------	---

HIST/GS 101	Histories of Globalization	4
-------------	----------------------------	---

HIST/GS 107	Science and Technology in the Making of the Modern World	4
-------------	--	---

HIST 308		4
----------	--	---

HIST 336	Bethlehem and the Lehigh Valley	4
----------	---------------------------------	---

HMS/REL/PHIL 116	Bioethics	4
------------------	-----------	---

POLS 115	Technology As Politics	4
----------	------------------------	---

POLS/AAS 230	Social Movements From the 1960s to Present	4
--------------	--	---

REL 006		4
---------	--	---

REL/GS 013	Religion and Food	4
------------	-------------------	---

SOC/AAS 313		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.

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

For more information visit Environmental Initiative

We are in a pivotal time for confronting environmental issues and studying the policies and tools 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 agriculture. 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 injustices, and environmental health. It also teaches about the social practices, moral authority and economic dynamics that affect interventions. Students gain deep insights and pragmatic skills 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).

Core Courses ¹ 9

EVST 401	Philosophical-Policy & Legal Design: Methods & Applications	3
----------	---	---

EVST/EES 402	Scientific Foundations for Environmental Policy Design	3
EVST 404 or EVST/POLS 466	Advanced Environmental Policy	3
Skills/Methods Course Requirement		3-6
CEE 471	Environmental Risk Assessment	
EDUC 405	Qualitative Research Methods	
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 419	Mapping Data for Policymaking	
POLS 321	Research Methods	
POLS 363	Public Opinion Research	
POLS 402	Methods Of Policy Analysis	
POLS 421	Research Methods	
Elective Courses		15
ANTH/AAS/GS 324		
ECO 303	Economic Development	
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 420	Food Justice in Urban Environments	
EVST 433	International Environmental Law & Philosophical-Policy Design	
EVST 442	International Law & Philosophical-Policy Design	
EVST 443	Comparative Environmental Law & Philosophical-Policy Design	
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/ENTP 310	Social Entrepreneurship: How to Change the World	
POLS/GS/WGSS 342	Gender and Third World Development	
POLS 348	Land Use, Growth Management, and the Politics of Sprawl	
POLS 416	American Environmental Policy	
POLS 468	Political Economy	
SOC/HMS 316	Social Epidemiology	
SOC/GS 319	The Political Economy of Globalization	
SOC/GS/HMS 322	Global Health Issues	
SOC/HMS/WGSS 341	Gender and Health	
SOC/HMS 343	Racism and Health Inequities	
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 approved list may include one additional course (up to a total of 6 credit hours) from the **Skills/Methods** category of required courses. Students are urged to select electives which allow for concentrated study in a particular area of academic interest.

2

Required courses (12 credits) + Elective courses (12-15 credits) + EVST 490 Thesis (3-6 credits) = Total 27-33 credits

3

Required courses (12 credits) + Elective courses (15 credits) + EVST 480 Internship in Environmental Policy (3-6 credits) = Total 30-33 credits

4

Required courses (12 credits) + Elective courses (12 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 Urban 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
POLS 348	Land Use, Growth Management, and the Politics of Sprawl
EVST/POLS 466	Advanced Environmental Policy
POLS 416	American Environmental Policy

Concentration in Environmental Law and Policy

(Domestic and International)

EVST/POLS 411	Environmental Valuation for Policy Design
EVST 433	International Environmental Law & Philosophical-Policy Design
EVST 442	International Law & Philosophical-Policy Design
EVST 443	Comparative Environmental Law & Philosophical-Policy Design
EVST/POLS 455	Environmental Justice: From Theory to Practice
EVST/POLS 466	Advanced Environmental Policy
POLS 416	American Environmental Policy
POLS 468	Political Economy

Concentration in Sustainable Development

ECO 303	Economic Development
EVST 410	Foundations of Sustainable Development Practice
EVST 453	Ethnobotany: People and Plants

POLS/ENTP 310	Social Entrepreneurship: How to Change the World
POLS/GS/WGSS 342	Gender and Third World Development
POLS 348	Land Use, Growth Management, and the Politics of Sprawl
SDEV/ENTP 307	International Social Entrepreneurship
SOC/GS 319	The Political Economy of Globalization
SOC/GS/HMS 322	Global Health Issues
EVST/POLS 419	Mapping Data for Policymaking

Concentration in Environmental Health

EVST/HMS/JOUR 323	Health and Environmental Controversies
EVST/POLS 455	Environmental Justice: From Theory to Practice
POLS 473	Globalization and Social Well-Being

Concentration in Environmental Justice

EVST/POLS 405	Residential Segregation: Policies and Practices
EVST/POLS 411	Environmental Valuation for Policy Design
EVST/POLS 455	Environmental Justice: From Theory to Practice
POLS/AAS 230	Social Movements From the 1960s to Present
POLS/ENTP 310	Social Entrepreneurship: How to Change the World
POLS 358	Interest Groups, Power, and Democracy in American Politics
POLS 416	American Environmental Policy
POLS 426	Organizing For Democracy
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.

ENVIRONMENTAL LAW AND POLICY

Core Course	3
EVST 401	Philosophical-Policy & Legal Design: Methods & Applications
or EVST 404	
Elective Courses ¹	9
Select any three of the following:	
EVST/POLS 411	Environmental Valuation for Policy Design
EVST 433	International Environmental Law & Philosophical-Policy Design
EVST 442	International Law & Philosophical-Policy Design
EVST 443	Comparative Environmental Law & Philosophical-Policy Design
EVST/POLS 455	Environmental Justice: From Theory to Practice
EVST/POLS 466	Advanced Environmental Policy
EES 446	Human-Climate Interactions
POLS 416	American Environmental Policy
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.

URBAN ENVIRONMENTAL POLICY AND PLANNING

Core Course	3
EVST 404	
Elective Courses ¹	9
EVST/POLS 412	Urban Environmental Policy Workshop
EVST/POLS 455	Environmental Justice: From Theory to Practice
EVST/POLS 466	Advanced Environmental Policy
EES 446	Human-Climate Interactions
POLS 348	Land Use, Growth Management, and the Politics of Sprawl
POLS 416	American Environmental Policy
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.

SUSTAINABLE DEVELOPMENT

Core Courses	6
ES 404	
ES 410	
Elective Courses ¹	6
ANTH/GS/AAS 324	
ECO 303	Economic Development
ES/POLS 414	
EES 446	Human-Climate Interactions
ES 453	
POLS/ENTP 310	Social Entrepreneurship: How to Change the World
POLS/GS/WGSS 342	Gender and Third World Development
POLS 348	Land Use, Growth Management, and the Politics of Sprawl
SDEV/ENTP 307	International Social Entrepreneurship
SOC/GS/HMS 322	Global Health Issues
SOC/GS 319	The Political Economy of Globalization
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

Core Courses	3
EVST 404	
Elective Courses ¹	9
EVST/JOUR/HMS 323	Health and Environmental Controversies
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
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

Core Courses

EVST 401 & EVST 455	Philosophical-Policy & Legal Design: Methods & Applications and Environmental Justice: From Theory to Practice
---------------------	--

Elective Courses ¹ 6

POLS/AAS 230	Social Movements From the 1960s to Present
POLS/ENTP 310	Social Entrepreneurship: How to Change the World
POLS 358	Interest Groups, Power, and Democracy in American Politics
EVST/POLS 405	Residential Segregation: Policies and Practices
EVST/POLS 411	Environmental Valuation for Policy Design
EES 446	Human-Climate Interactions
POLS 416	American Environmental Policy
POLS 426	Organizing For Democracy
POLS 473	Globalization and Social Well-Being

Total Credits 6

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

ES 110 (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: SS

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: SS

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: NS

EVST 004 (EES 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.

Attribute/Distribution: NS

EVST 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, land forms soils, and biota.

Attribute/Distribution: SS

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: SS

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

An introduction to the ethical perspectives and values that shape human relationships to the natural environment in contemporary society. What are the moral implications of these relationships for justice and human collective action? Given these implications, what policy responses to environmental problems are morally or politically justifiable? In answering these questions, the course explores ethical ideas developed in different schools of environmental thought, such as deep ecology and ecofeminism, in addition to ideas that emerge from social movements, such as.

Attribute/Distribution: SS

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: SS

EVST 110 (ES 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: SS

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: 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: SS

EVST 123 Sustainability in Action I 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 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: SS

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: SS

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.

Attribute/Distribution: HU, SS

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.

Attribute/Distribution: HU, SS

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

Buddhism's intellectual, ethical, and spiritual resources are reexamined 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: HU

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 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 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: SS

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: SS

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: SS

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: SS

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: 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: SS

EVST 320 (HMS 320, POLS 320) Food Justice in Urban Environments 4 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.

Attribute/Distribution: 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

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 331 Environmental Law I: Pollution & Risk Abatement 4 Credits

This course studies the practical reality of environmental regulation as codified law. It also aims at understanding the law's foundation in argument and justification as both existing law and proposed policy through the use of cases, statutes, and regulations on air, water, risk, waste and environmental impact. Utilizing two legal paradigms for charting the relationship between humanity and nature, it examines a wide range of environmental law as well as ethical, political, economic, scientific, and policy dimensions.

Attribute/Distribution: SS

EVST 342 (PHIL 342) International Law & Philosophical-Policy Design 4 Credits

Using the techniques of Philosophical-Policy and Legal Design we will examine the evolution of those fundamental ideas from the 16th to the 19th centuries that have shaped our current understanding of international law. To assess both what law is, and what it ought to be, we will contrast narrow theories of international law with more comprehensive philosophical arguments that place the evolution of legal practice within a more universal concern for practical reason and human nature.

Attribute/Distribution: HU

EVST 343 (PHIL 343) Comparative Environmental Law & Philosophical-Policy Design 4 Credits

Globalization is changing our perception of environmental policy as a strictly "domestic" issue. Those interested in humanity's future interaction with nature need to understand not only the comparative practice of law and policy but the various philosophical principles that inform distinct approaches to environmental regulation within different political systems. We will explore both the components of the generic legal system and the range of alternatives for environmental law and policy design as practiced in various parts of the world.

Attribute/Distribution: HU

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: SS

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: 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: 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: 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: SS

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.

Attribute/Distribution: HU, SS

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.

Attribute/Distribution: HU, SS

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 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 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 433 International Environmental Law & Philosophical-Policy Design 3 Credits

This course studies international law and the natural environment assuming that the superficial legal structure and policy dilemmas of globally regulating the natural world are the result of the more essential philosophical ideas and concepts that have created both the international legal system and humanity's evolving interrelationship with nature. Learning the current structure of the international-environmental legal system we shall comparatively apply theory to practice to both explain existing law and justify policy change.

EVST 442 International Law & Philosophical-Policy Design 3 Credits

Using the techniques of Philosophical-Policy and Legal Design we will examine the evolution of those fundamental ideas from the 16th to the 19th centuries that have shaped our current understanding of international law. To assess both what law is, and what it ought to be, we will contrast narrow theories of international law with more comprehensive philosophical arguments that place the evolution of legal practice within a more universal concern for practical reason and human nature.

EVST 443 Comparative Environmental Law & Philosophical-Policy Design 3 Credits

Globalization is changing our perception of environmental policy as a strictly "domestic" issue. Those interested in humanity's future interaction with nature need to understand not only the comparative practice of law and policy but the various philosophical principles that inform distinct approaches to environmental regulation within different political systems. We will explore both the components of the generic legal system and the range of alternatives for environmental law and policy design as practiced in various parts of the world.

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 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.