



Certificate, Environmental Law and Policy

The certificate program is a four course program where students take at least one law course, one policy course, and two other electives in consultation with the student's advisor.

Core Courses:

- U.S. Environmental Law I: Pollution and Risk Abatement
- International Environmental Law and Policy
- Comparative Environmental Law and Policy
- Environmental Valuation For Policy Design and Legal Analysis
- Environmental Justice and The Law
- Environmental: Risk Perception and Communication
- International Environmental and Science Policy
- Environmental Risk: Decision Making and Management

M.A., Environmental Policy Design

Certificate Program, Environmental Law and Policy



The Environmental Initiative at Lehigh University offers two interdependent graduate programs that allow students to learn how to understand and solve environmental problems from a variety of standpoints. These programs can be taken independently, or one after the other, and provide students with exceptional opportunities to learn how to analyze present law and to address its deficiencies by creating new policy designs.

The certificate in environmental law and policy provides students with basic instruction on how ethics, politics, and science policy influence the natural environment and shape human relationships to it. It also focuses on a more immediately practical and career-oriented component of policy studies by providing expertise in the existing positive law and policy that regulates environmental pollution and planning. Meanwhile, the master's degree in environmental policy design has a more wide-ranging mandate and includes more comprehensive study to understand the many facets of how one analyzes present policy and designs a response based on the moral, social, economic, political, and legal dimensions of the issue, its history, and its inherent values and principles.

The master's degree is a two-year program, that, unlike traditional market-based approaches to policy analysis, encourages both the critical analysis of past and current environmental policy and constructive policy arguments for future change in how we justify and legislate humanity's relationship to nature. The degree is an all-inclusive effort to combine basic skills in traditional policy techniques with unique skills in applying various philosophical, legal, economic, and political models to problems of local, national, and global importance. Training in policy design is training in the facilitation and formulation of environmental policy solutions that span many disciplines and geographical spaces. Students acquire a deeper understanding of the complexity of public policy and the codified law that emerges from it. Graduates are capable of dealing with environmental problems in the context of global interactions, and are able to identify and justify the range of policy responses possible, given the distinct values of those involved in synthesizing solutions to dialectically opposed ideas and institutions.

M.A., Environmental Policy Design

The master's degree program is a 30-credit program where a student takes two required courses, four of seven core courses, one methods course and four electives, or two electives and a six-credit thesis, in consultation with the student's advisor.

REQUIRED

Philosophical Politics and Environmental Policy Design: A basic course in the art and logic of policy design, as focused on environmental dilemmas. Rather than a retrospective, empirical-technical analysis dominated by market assumptions, Policy Design treats public decision-making as a philosophical exercise to understand the foundations of choice, the various principles that may support a policy, and the process and context in which the argument for the choice must be made. The course will also introduce the idea of Philosophical-Politics, or the utilization of philosophical paradigms that employ dialectic method to integrate the moral, political, economic, legal and social dimensions of a policy issue. Beginning with the conventional market paradigm, the course teaches students how to create their own theoretical paradigms with which to fuel the design process by presenting alternatives from, for example,

The final project is the application of a student designed policy paradigm to an environmental case study.

Scientific Foundations for Environmental Policy Design: A basic course in the relationship between scientific method, the gathering of scientific evidence, and the role of science in supporting environmental policy design arguments. Students will examine various contemporary issues and analyze what science is contributing to the creation of persuasive, or not so persuasive, policy debate on the local, national, and international levels of organization. There will also be an effort to understand the various uses of scientific method and scientific tools in the process of creating policy design arguments so that these arguments are more effective in the policy design space and more persuasive in the codification of law for the relationship between humanity and nature.

CORE (at least 4 of 7)

- Environmental Risk: Decision Making and Management
- International Environmental Law and Policy
- Comparative Environmental. Law and Policy
- U.S. Environmental Law I: Pollution and Risk Abatement
- Global Security and the Environment
- Environmental Justice and the Law
- Environmental Valuation for Policy Design and Legal Analysis

ELECTIVES: (3)

(Including at least one Foundation Course, except that one or more Core Courses May Be Substituted For Foundation or Context Courses)

Foundation:

- International Environmental and Science Policy
- Microbial Ecology OR Eco-physiology OR Environmental Case Studies
- Markets, Politics and the Law

Context:

- American Environmental History
- American Public Policy
- Environmental Politics and Collective Action
- Green Politics

Methods:

- Methods for Public Policy Analysis
- Remote Sensing of Terrestrial and Aquatic Environments
- Environmental Risk Assessment

Thesis:

A six-credit thesis can be taken in lieu of two Foundation/Context Courses with the approval of the Graduate Curriculum Committee.

While these two curricular programs have separate admissions processes, any courses taken for the certificate may be counted toward the M.A. upon acceptance into that program. In both cases, no more than six credits can be taken at the 300 level and the course of study must be completed in a maximum of 3 years.

Core Faculty

Dork Sahagian: Director of the Environmental Initiative and Professor of Earth and Environmental Sciences (Ph.D. The University of Chicago)

John Martin Gillroy: Professor of Comparative Policy & International Law (Ph.D. The University of Chicago; M.S.E.L. Vermont Law School; LL.M. Wolfson College, University of Cambridge)

Breana Holland: Assistant Professor of Political Science (Ph.D. The University of Chicago)

Chad Briggs: Assistant Professor of International Relations (Ph.D. Carleton University)

Frank L. Davis; Associate Professor of Political Science (PhD, University of North Carolina)

Donald P. Morris, Ph.D. (Colorado), Associate Professor of Earth and Environmental Sciences

Bruce R. Hargreaves, Ph.D. (U.C. Berkley), Associate Professor of Earth and Environmental Sciences

Kristen L. Jellison, Ph.D. (MIT), Assistant Professor of Civil and Environmental Engineering

Stephen H. Cutcliffe, Ph.D. (Lehigh), Professor of Science, Technology and Society and History and Director of Science, Technology and Society program

Albert H. Wurth, Jr., Ph.D. (North Carolina), Associate Professor of Political Science

Joan M. Ramage, Ph.D. (Cornell), Assistant Professor of Earth and Environmental Sciences

Derick G. Brown, Ph.D. (Princeton), Assistant Professor of Civil and Environmental Engineering

For more information and detailed course descriptions, see our web page: www.ei.lehigh.edu