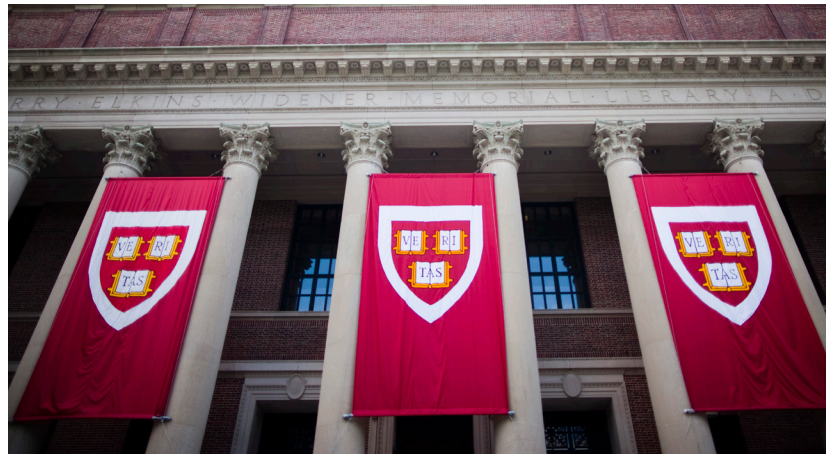




EXPLORE YOUR WORLD

The concentration in Environmental Science and Public Policy (ESPP) is designed to provide a multi-disciplinary introduction to current challenges and issues of the environment. It is founded on the premise that the ability to form rational judgments concerning many of the complex challenges involving the environment that confront today's society requires both an understanding of the underlying scientific and technical issues and an appreciation for the relevant economic, political, legal, historical, and ethical dimensions. The program offers students an opportunity to formulate a field of specialization relating to the environment.

"The ESPP concentration was an excellent way to develop fundamental skills in scientific investigation, and there are many opportunities to apply these interdisciplinary skills to different topics and projects in one's career after Harvard."
» Jaclyn Hatala Matthes '07, Assistant Professor, Dartmouth College



WHO WE ARE

HEAD TUTOR:

Paul Moorcroft,
Professor of Biology

ESPP COORDINATOR:

Lorraine Maffeo

SECONDARY FIELD:

Eric Simms

"Your work could take you to the lab, to the field, or to the State house. Or all three. ESPP offered me this range of experiences and options."

» Gracie Brown '11

CONTACT US

PHONE: 617.496.6995
FAX: 617.496.0425
EMAIL: maffeo@fas.harvard.edu
ADDRESS: Environmental Science & Public Policy
Harvard University Center for the Environment
24 Oxford Street, 3rd Floor
Cambridge, MA 02138

www.espp.fas.harvard.edu

AUGUST 2014



HARVARD
UNIVERSITY

ENVIRONMENTAL SCIENCE & PUBLIC POLICY

A HARVARD COLLEGE CONCENTRATION



ESPP Faculty Committee/Board of Tutors



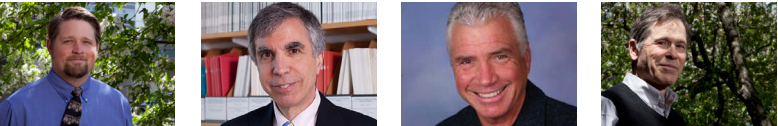
LEARN FROM WORLD-CLASS FACULTY

The concentration is overseen by an interdisciplinary group of faculty that function as a Board of Tutors. They hail from a wide variety of departments and Schools, giving the program an incredible breadth of specialties. Students develop relationships with Board of Tutors faculty, as they teach a number of the required courses, serve as advisors, and some oversee ESPP field trips.

- Paul Moorcroft**, Professor of Organismic & Evolutionary Biology (*Chair and Head Tutor*)
- William C. Clark**, Brooks Professor of International Science, Public Policy and Human Development (*Kennedy School*)
- Noel Michele Holbrook**, Bullard Professor of Forestry; Professor of Biology
- Michael Hooper**, Assistant Professor of Urban Planning (*Graduate School of Design*)
- Sheila S. Jasanoff**, Pforzheimer Professor of Science and Technology Studies (*Kennedy School*)
- James J. McCarthy**, Agassiz Professor of Biological Oceanography
- Ann Pearson**, Ross Professor of Environmental Sciences
- Forest Reinhardt**, Black Professor of Business Administration (*Harvard Business School*)
- Andrew Richardson**, Associate Professor of Organismic and Evolutionary Biology
- Daniel P. Schrag**, Hooper Professor of Geology



“The small, focused ESPP classes have allowed me interact with experts in innovation and technology, environmental health, air pollution, and many more fields of research.” >> Ethan Addicott '14



- John H. Shaw**, Dudley Professor of Structural and Economic Geology
- Robert N. Stavins**, Pratt Professor of Business & Government (*Kennedy School*)
- Martin L. Weitzman**, Professor of Economics
- Steven C. Wofsy**, Rotch Professor of Atmospheric & Environmental Science

PROGRAM OVERVIEW

Students have to satisfy a core of requirements in the physical, biological, and social sciences and mathematics. In consultation with their faculty advisor, concentrators develop an individual plan of study for a series of advanced courses around a particular field of specialization. Through their field of specialization, students develop expertise in a particular field of study relating to the environment. In the senior year, students undertake a capstone project in which they conduct an in-depth examination of a particular environmental issue consistent with their field of specialization, applying skills and knowledge gained in their courses and tutorial experiences.

ADVISING

Each student is assigned a faculty advisor. These assignments are based on the student's interests and their current intended field of specialization. For many students, their interests and planned field of specialization will evolve over time. We view this evolution as an integral part of the ESPP advising process. If desired, students may be subsequently re-assigned to an advisor more appropriate for the student's developing field of specialization. Students are expected to meet with their adviser at least once each term to discuss their plan of study and resulting course selections, research opportunities, and other academic matters. However, students are encouraged to meet with their advisers more often throughout the year as their interests and desired field of specialization develops. Students may also seek advice from any member of the Board of Tutors.



CONCENTRATION REQUIREMENTS (13–14 half courses)

- Introductory Course. 1 half-course chosen from:**
ESPP 11. Sustainable Development
EPS 22. The Fluid Earth: Oceans, Atmosphere, Climate, and Environment
SLS 22. Human Influence on Life in the Sea
SLS 25. Trees, Forests and Global Change
SPU 25. Energy: Perspectives, Problems, and Prospects
SPU 29. The Climate-Energy Challenge
SPU 31. Energy Resources and the Environment
- Physical Sciences 1 or 11 or EPS 135. — **1 half-course**
- Mathematics and/or Statistics — **2 half-courses**
(Minimum: Math 1a & 1b but more advanced courses are encouraged)
- Biological Sciences — **1 half-course**
OEB 10 or Life Sciences 1a or 1b or OEB 55
- ESPP 77 or 78 — **1 half-course**
- Economics 1661 or 1687 — **1 half-course**
- Advanced-level Courses — **4 half-courses** in the student's field of specialization. At least one half-course must be from the social sciences/policy and at least one half-course must be chosen from the natural sciences. One half-course must be in EPS unless a student has taken EPS 22, SPU 25, SPU 29 or SPU 31 as their entry course in 1 above. Students must file a plan of study and identify their field of specialization by the end of their sophomore year. Plans of study will be developed in consultation with the student's adviser and will be reviewed and approved by the Board of Tutors. The plan of study is to be revised and reviewed at the end of their junior year.
- ESPP 90. Junior Seminar (consistent with field of specialization) — **1 half-course**
- Capstone Project/Senior Thesis — **1 or 2 half-courses**
(**1 half-course**) ESPP 91r. **Supervised Reading and Research.** In the capstone project, students conduct an in-depth examination of a particular environmental issue consistent with their field of specialization (the typical requirement is a term-paper or equivalent). OR
(**2 half-courses**) ESPP 99. **Senior Tutorial/Thesis.** For students wishing to be considered for honors, the capstone project consists of a two-half course senior thesis.



“I enjoy the intimate size of the program, which has encouraged me to form relationships with both professors and students with whom I share common interests and passions.” >> Basil Williams '14

SECONDARY FIELD REQUIREMENTS (5 half courses)

The secondary field in ESPP offers students in other concentrations an opportunity to complement their studies with courses that will provide an environmental science and policy perspective.

- Students choose one of the following foundational courses:**
- ESPP 11. Sustainable Development
 - EPS 22. The Fluid Earth: Oceans, Atmosphere, Climate and Environment
 - SLS 22. Human Influences on Life in the Sea
 - SLS 25. Trees, Forests and Global Change
 - SPU 25. Energy: Perspectives, Problems and Prospects
 - SPU 29. The Climate-Energy Challenge
 - SPU 31. Energy Resources and the Environment

- Students must choose at least four upper-level courses:**
- Two courses must be chosen in Social Sciences and Public Policy, and two must be chosen from Natural Sciences and Engineering. For a complete list of course options, visit the ESPP website, www.espp.fas.harvard.edu.

- Additional Requirements:**
- During each semester there will be several evening discussion sessions that are intended specifically to engage ESPP secondary field students in discussion with Harvard faculty. Some will require preparatory readings and others will require prior attendance at a public lecture on campus. Students will be required to attend at least one session for each semester once they have been accepted into the program.
 - Students must declare their engagement in this secondary field no later than study card day of their sixth term. They will then be assigned an advisor, following their submission of an anticipated course of study.
 - One ESPP seminar may be used in substitution for one of the social science and public policy requirements.

Secondary Field in Energy and Environment:
ESPP administers a secondary field in energy and environment. To learn more, visit the ESPP website.

