



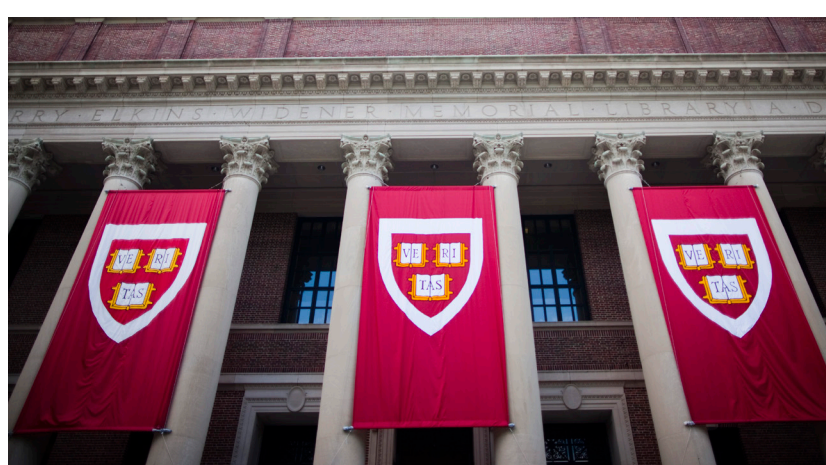
EXPLORE YOUR WORLD

The concentration in Environmental Science and Public Policy (ESPP) is designed to provide a multi-disciplinary introduction to current problems of the environment. It is founded on the premise that the ability to make rational judgments concerning many of the challenges confronting society today involving the environment requires both an understanding of the underlying scientific and technical issues and an appreciation for the relevant economic, political, legal, historical, and ethical dimensions.

ESPP features course requirements in biology, chemistry, earth & environmental sciences, economics, government and mathematics. The concentration is overseen by a Board of Tutors that includes faculty from several Harvard departments including Earth & Planetary Sciences, Organismic & Evolutionary Biology and Economics, and faculty from the Harvard Kennedy School, the Business School, the Graduate School of Design, the School of Public Health, and the School of Engineering & Applied Sciences. Experience an interdisciplinary approach to solving environmental problems.

"I wouldn't trade the ESPP experience for anything. It gave me a community—a really interesting group of people, places, and ideas—that really fostered my growth at Harvard."

» Forrest Briscoe '95, Assistant Professor, Pennsylvania State University



WHO WE ARE

HEAD TUTOR:

Paul Moorcroft,
Professor of Biology

ESPP COORDINATOR:

Ms. Lorraine Maffeo

"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

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HARVARD
UNIVERSITY

ENVIRONMENTAL SCIENCE & PUBLIC POLICY

A HARVARD COLLEGE CONCENTRATION



2012-2013



ESPP Faculty Committee



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.

Paul Moorcroft, Professor of Organismic & Evolutionary Biology (*Head Tutor*)
John Briscoe, McKay Professor of the Practice of Environmental Engineering
William C. Clark, Brooks Professor of International Science, Public Policy and Human Development (*Kennedy School*)
Richard T. T. Forman, Professor of Advanced Environmental Studies in the Field of Landscape Ecology (*Design School*)
Sheila S. Jasanoff, Pforzheimer Professor of Science and Technology Studies (*Kennedy School*)
Jonathan Losos, Lehner Professor for the Study of Latin America
James J. McCarthy, Agassiz Professor of Biological Oceanography
Michael B. McElroy, Butler Professor of Environmental Studies
Ann Pearson, Professor of Biogeochemistry
Anne Pringle, Associate Professor of Organismic and Evolutionary Biology
Forest Reinhardt, Black Professor of Business Administration (*Business School*)
Andrew Richardson, Assistant Professor of Organismic and Evolutionary Biology



“I learned with leading professors from very different departments to gain a multi-disciplinary approach to solving today’s most important and complex policy dilemmas.” >> Eric Lu '12



FACULTY CONTINUED

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

ADVISING

At the beginning of the first term of the concentration, the Head Tutor assigns each student to a faculty advisor based on the student’s interests. Students normally continue with the same adviser throughout their concentration, although advisers may be changed upon request or faculty perception of academic needs. Students meet individually with their advisors at least once a term to discuss course selection, research opportunities, and other academic matters, but are encouraged to meet more often throughout the year. The adviser’s signature on study cards is required. Students may also seek advice from any member of the Board of Tutors.

HONORS

Students may earn honors in ESPP by completing a senior thesis and enrolling in ESPP 99r Senior Thesis/Tutorial. Students normally identify a topic and advisor in the spring of their junior year, and then conduct research the following summer.



ESPP CONCENTRATION REQUIREMENTS (16 half courses)

Biological Sci. 2 half courses	One from: OEB 10, OEB 53, Life Sciences 1a or Life Sciences 1b AND OEB 55: Ecology: Populations, Community & Ecosystems
Economics 2 half courses	One half course in Microeconomics AND EC 1661: Fundamentals of Envi. Economics & Policy OR Ec 1687: Advanced Economics of the Environment, Natural Resources & Climate Change
Envi. Science/Engineering 2 half courses	EPS 22: The Fluid Earth: Oceans, Atmosphere, Climate and Environment AND ES 6: Environmental Science & Technology OR EPS 21: The Dynamic Earth: Geology and Tectonics through Time
Gov/Pub. Policy 2 half courses	ESPP 10: Environmental Policy AND ESPP 78: Environmental Politics
Physical Sciences 1 half course	Physical Sciences 1: Chemical Bonding, Energy, and Reactivity: An Introduction to Physical Sciences, OR Physical Sciences 10: Chemistry: A Microscopic Perspective on Molecules, Materials, and Life, OR Physical Sciences 11: Foundations and Frontiers of Modern Chemistry: A Molecular and Global Perspective
Mathematics or Statistics 2 half courses	One of the following course pairs: Math 1a & 1b; Math 1b plus Math 18, 19a, or 21a; Math 1b plus Stats 100 or 104; Math 1b plus Applied Math 21a, Math 19 plus Stats 100 or 104; Math 19a and 19b, Applied Math 21a and 21b; Math 21a and 21b
Junior Seminar 1 half course	ESPP 90 Junior Seminar/Tutorial. Various environmental science & policy topics are offered each year. Seven are offered this year.
Electives	To reach a total of 16 (2-3 half courses)

“The appeal of the course selection combined with the personal attention that comes with a small department made ESPP the perfect choice for me.” >> Caroline McHugh '12

ESPP AS A SECONDARY FIELD (6 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. ESPP offers pathways for **Natural Sciences** concentrators and **Social Sciences/Humanities** concentrators. The requirements are as follows:

One half-course chosen from the following:
ESPP 10: Environmental Policy
ESPP 78: Environmental Politics

Natural Science concentrators **three half-courses** chosen from the following list and **Social Sciences/Humanities concentrators** **two half-courses** chosen from the following list:
ECON 1010a: Microeconomic Theory (ECON 1011a may be substituted)
ECON 1661: Fundamentals of Environmental Economics and Policy
ECON 1687: Advanced Economics of the Environment, Natural Resources, & Climate Change
ESPP 78: Environmental Politics (if ESPP 10 were taken to satisfy requirement 1 listed above)
GOV 1100: Political Economy of Development

Natural Science concentrators **two half-courses** chosen from the following list and **Social Sciences/Humanities concentrators** **three half-courses** chosen from the following list:
EPS 21: The Dynamic Earth: Geology and Tectonics Through Time
EPS 22: The Fluid Earth: Oceans, Atmosphere, Climate, and Environment
EPS 109: Earth Resources and the Environment
EPS 135: Physics and Chemistry: In the Context of Energy & Climate
ES 6: Environmental Science & Technology
ES 164: Soil and Environmental Chemistry
OEB 55: Ecology: Populations, Communities, and Ecosystems
OEB 157: Global Change Biology

Optional additional elective: With the permission of the instructor, one of the ESPP 90 junior seminars may be substituted for a course in either of the second two requirements sections listed above.

