

# Featured Courses

2020-2021

The following list of HKS degree program courses offer substantial climate-related content.

Students interested in climate change issues are encouraged to explore further course offerings through [KNet](#), the [Harvard Syllabus Explorer](#), and the [HUCE Course Guide](#).

We also encourage students to look for cross-registration opportunities at other Harvard schools, MIT, and Tufts.

## **API-135**

### Economics of Climate Change and Environmental Policy

Robert Stavins | Spring | 4 Credits

Provides a survey, from the perspective of economics, of global climate change and public policies to address it, including international, regional, national, and sub-national policies. The political economy and politics of alternative policies are also covered.

## **API-165**

### Energy and Environmental Economics and Policy

Joe Aldy | Spring | 4 Credits

This course applies economic tools to understand the rationale, design, and evaluation of public policies focused on energy and environmental problems. The course examines the efficacy, welfare, and distributional impacts of an array of policy approaches.

## **API-905Y**

### Seminar in Environmental Economics and Policy

Robert Stavins & James Stock | Year | 4 Credits

This is an advanced research seminar on selected topics in environmental and resource economics. Emphasizes theoretical models, quantitative empirical analysis, and public policy applications. Includes presentations by invited outside speakers. Students prepare critiques of presented papers and prepare a research paper of their own.

### **DEV-209**

## Management, Finance, and Regulation of Public Infrastructure in Developing Countries

Henry Lee | Spring | 4 Credits

This course explores efforts to manage, finance, and regulate the transportation, water, sanitation, and energy infrastructure systems in developing countries. Issues to be discussed include public-private partnerships (PPPs), the fundamentals of project finance, contract and discretionary regulation, corruption, stakeholder involvement, and managing the political and strategic context in which infrastructure decisions are made.

### **IGA-402**

## Confronting Climate Change: A Foundation in Science, Technology and Policy (NEW)

Dan Schrag | Fall | 4 Credits

This course will consider the challenge of climate change and what to do about it. Students will be introduced to the basic science of climate change, including the radiation budget of the Earth, the carbon cycle, and the physics and chemistry of the oceans and atmosphere.

### **IGA-403M**

## Policy for an Engineered Planet

David Keith | Fall 2 | 2 Credits

Climate will serve as a case study through which we will explore policy for an engineered planet. Lectures will cover disruptive climate technologies from biofuels to geoengineering to carbon removal.

## **IGA-408**

### Climate Disruption: Emerging Topics in Policy, Politics, and Technology of Climate Change (NEW)

David Keith | Fall | 4 Credits

This interactive seminar on climate change aims to build community among Kennedy School students interested in emerging topics in climate policy, politics, and technology. The course combines two linked seminars: the practitioner's seminar and the student seminar.

## **IGA-411**

### The Energy-Climate Challenge

John Holdren & Henry Lee | Fall | 4 Credits

This course will examine the character and magnitude of this challenge and the policy choices germane to meeting it, introducing and applying relevant concepts from environmental science, energy-technology assessment, policy design, and domestic and global politics.

## **IGA-412**

### The Geopolitics of Energy

Meghan O'Sullivan

(Not offered in AY2020-21; anticipated return AY2021-22)

## **IGA-455**

### Environmental Politics: Building Power Through Leadership, Persuasion and Negotiation (NEW)

Rand Wentworth | Spring | 4 Credits

Leadership is difficult in any enterprise, but it is especially difficult for environmental leaders who face opponents with vastly more power and money. Students will learn three core skills to overcome power asymmetries: *persuasion*, *advocacy*, and *negotiation*.

## **IGA-507**

### Science and Technology in Domestic and International Policy

John Holdren | Spring | 4 Credits

This course explores the interactions of S&T with domestic and international policy, drawing on the relevant scholarly literature and on case studies of current issues in economic policy, health policy, environmental policy, and defense policy.

## **IGA-513**

### Science, Power, and Politics

Sheila Jasanoff | Fall | 4 Credits

This seminar introduces students to the major contributions of the field of science and technology studies (STS) to the analysis of politics and policymaking in democratic societies. The objective is to expand students' understanding of the ways in which science and technology participate in the creation of social and political order.

## **IGA-565**

### Analytical Methods for Complex Adaptive Systems

Afreen Siddiqi | Spring | 4 Credits

This course introduces theory and methods for quantitative analysis of complex, sociotechnical systems. The course will introduce complex adaptive systems theory and approaches for 'systems thinking' for analyzing modern systems that embody technological and social elements and operate within a changing environment.

## **IGA-671M**

### Policy and Social Innovations for the Changing Arctic

Halla Hrund-Logadottir | Fall 1 | 2 Credits

Through the lens of the rapidly changing Arctic region, this module will give students an overarching understanding of these local and global challenges, as well as tools and experience in developing their own policy and social innovations to address complex issues in a sustainable way. It will also provide students with skills to communicate new policy ideas effectively to a global audience.