updated 2/13/2024

Master in Urban Planning
Environment, Climate, and Health Concentration
2023–2024

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Environmental planning is a broad field encompassing a range of professional activities employing a variety of skills. Practitioners may work in the government, non-profit or business sector on watershed planning, the design of ecological infrastructure, industrial ecology, community organizing, workforce development, coastal planning, and hazards mitigation; spatial analysis, environmental risk assessment, energy policy and planning, pedestrian and transit-oriented development, on developing urban food systems and open space preservation, preparing environmental impact statements, etc.

The frameworks that tie this wide-ranging work together include sustainable development, and its notion of achieving the "triple bottom-line" in planning activities by reconciling conflicts between economic development, social equity, and ecological protection and restoration. The idea of resilience, or the capacity to manage change, is also key in this specialization.

The breadth of environmental courses available at the GSD and Harvard generally reflect the multiple dimensions of sustainability in the context of planning practice and research. The Harvard University Center for the Environment (HUCE) has prepared an excellent overview, the https://environment.harvard.edu/course-guide. Please note that courses may require permission from the instructor wherever they are offered.

Please be aware that course offerings are subject to change. New courses may be introduced, while some of the approved courses listed here may not be available every year. This memo is subject to revisions based on course availability. Courses that are not mentioned in this memo do not automatically have approval and may only be approved after a review and written permission from the Concentration Advisor(s).

Recommended introductory courses:

The following courses are recommended to those interested in the concentration. They are introductory level courses that give a good overview of the topics and subject matter covered in more depth by other courses in the concentration:

SCHOOL	COURSE NUMBER	COURSE TITLE	UNITS	FACULTY
GSD	5206	Land Use and Environmental Law[1] **(Fall)**	4	Kayden

1. Only if not taken to satisfy Law and Institutions Methods Requirement.

FALL 2023 APPROVED COURSES:

SCHOOL	COURSE NUMBER	COURSE TITLE	UNITS	FACULTY
GSD	2362	Lost and Alternative Nature: Vertical Mapping of Urban Subterrains for Climate Change Mitigation	4	Kim
GSD	3348	The Idea of the Environment	4	Spinak
GSD	5206	Land Use and Environmental Law[1]	4	Kayden
GSD	6241	Ecologies, Techniques, Technologies III: Ecology and the Design World	4	Fernandez-Barrancos

GSD	6244	Climate by Design	4	Whitesides, Conrad
GSD	6333	Water, Aquatic Ecology, and Land-Water Linkages	4	Dekker, Nelson
GSD	6380	Working Landscapes: Natural Resiliency and Redesign	4	Zimmerman
GSD	6381	Power||Energy: Mapping the Thickened Ground of Labor	4	Monacella
GSD	6482	Confronting Climate Change: A Foundation in Science, Technology, and Policy	4	Schrag
FAS	ESPP 90P	Climate Responsibility and Climate Action[2]	4	Frumhoff
HKS	API 170	Managing Climate Change Risks: Information, Incentives, and Institutions	4	Aldy
HKS	API 905Y	Seminar in Environmental Economics and Policy[3]	2	Stavins, Stock
HLS	2074	Environmental Law[2] **(Open to HLS/MUP dual degrees)**	4	Lazarus
HSPH	EH 249	Built Environment, Nature and Health[2] **(Fall 2)**	2	James
HSPH	GHP 272	Foundations of Global Health and Population[2]	4	Bloom
HSPH	NUT 209	Seminars in Food Science, Technology, and Sustainability	2	Apostolidis
MIT	1.813	Technology, Globalization, and Sustainable Development[2]	4	Ashford
MIT	1.834 2.834	Exploring Sustainability at Different Scales	4	Gutowski
MIT	11.273	Infrastructure Design for Climate Change[2]	2	Einstein
MIT	11.371	Sustainable Energy[2]	4	Golay
MIT	11.373 12.885	Science, Politics, and Environmental Policy[2]	4	Solomon
MIT	11.371	Sustainable Energy[2]	4	Golay
MIT	11.387	Environmental Finance and Political Economy	4	TBA
MIT	11.466	Technology, Globalization, and Sustainable Development	4	Ashford
MIT	11.477	Urban Energy Systems and Policy[2]	4	Hsu
MIT	11.601	Theory and Practice of Environmental Planning *(formerly Introduction to Environmental Policy & Planning)*	4	Susskind
MIT	15.366	Climate & Energy Ventures[3]	4	Hynes
MIT	15.385	Innovating for Impact **(Fall 1)**	2	Jay
MIT	CMS.875	Reading Climate Through Media	4	Paradis

1. Only if not taken to satisfy Law and Institutions Methods Requirement.
2. Requires permission of instructor. Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course.
3. Students must participate in Sloan's Course Bidding to take this subject.

WINTER/J-TERM 2024 APPROVED COURSES:

SCHOOL	COURSE NUMBER	COURSE TITLE	UNITS	FACULTY
HKS	IGA 671M	Policies and Social Innovations for the Changing Arctic[1]	2	Logadottir
HLS	2123	International Environmental Law	2	Wiersema
HSPH	EH 210	Social and Sustainable Innovation Driven by the Sustainable Development Goals[2]	2	Spengler

1. Priority enrollment is given to HKS students and may not be available to GSD students. This course will begin on Friday, January 5 from 9am-5pm and will also meet Monday-Friday, January 8-12 from 9am-5pm.
2. Students outside of HSPH must request instructor permission to enroll in this course.

SPRING 2024 APPROVED COURSES:

SCHOOL	COURSE NUMBER	COURSE TITLE	UNITS	FACULTY
GSD	3396	Thinking Landscape - Making Cities: Designing Regenerative Futures	4	Wall
GSD	5409	Climate Justice	4	Spinak
GSD	5447	Creating Environmental Markets	4	Zimmerman
GSD	5461	Urban Adaptation	4	Teicher
GSD	6489	Climate Positive Design Lab	4	Conrad
FAS	ECON 1661	Economics of Climate Change and Environmental Policy **(offered jointly with HKS)**	4	Stavins
FAS	ESPP 90M	Natural Climate Solutions: Feasible of Fantasy?	4	Schrag
FAS	GOV 1318	The Great Food Transformation	4	Saha
FAS	GOV 1722	Politics of the Environment and Climate Change	4	Ansolabehere
FAS	HIST 1973	Re-Wilding Harvard	4	Chaplin
HBS	MBA 1487	Cities, Structures, and Climate Shocks *(formerly Sustainable Cities and Climate Adaptation)*[1]		Macomber
HKS	API 135	Economics of Climate Change and Environmental Policy **(offered jointly with FAS)**	4	Stavins
HKS	API 165	Energy and Environmental Economics and Policy	4	Aldy
HKS	API 905Y	Seminar in Environmental Economics and Policy[2]	2	Stavins, Stock
HKS	IGA 455	Environmental Politics: Persuasion, Advocacy, and Negotiation[3] *(formerly Building Power Through Leadership, Persuasion and Negotiation*	4	Wentworth
HLS	2193	Natural Resources Law	2	Mergen
HLS	2974	State Energy Law	2	Peskoe
HLS	3238	The Law of Climate Adaptation	2	Crawford
HSPH	EH 252	High Performance Buildings for Health, Comfort and Sustainability[4]	4	Allen
HSPH	EH 257	Water Pollution[4]	4	Levin
HSPH	EH 278	Human Health and Global Environmental Change[4] **(Spring 2)**	2	Dresser
HSPH	EH 297	Atmospheric Environment[4]	4	Koutrakis, Hanna
MIT	11.204	People and the Planet: Environmental Histories and Engineering	4	TBA
MIT	11.269	Global Climate Policy and Sustainability	4	Knox-Hayes
MIT	11.304	Site and Environmental Systems Planning[5]	4	Ocampo
MIT	11.308	Ecological Urbanism Seminar[5]	4	Spirn
MIT	11.382	Water Diplomacy: The Science, Policy, and Politics of Managing Shared Resources	4	TBA
MIT	11.413	The Economic Approach to Cities and Environmental Sustainability	4	Zheng
MIT	11.630	Environmental Law, Policy, and Economics: Pollution Prevention and Control	4	Ashford, Caldart

1. Cross-registrants are welcome with prior permission of the instructor. Prerequisites are HBS Finance 1 and Finance 2, or HBS Real Property, or equivalent.

2. This course is intended primarily for PhD students in economics, political economy and government, public policy, or related fields with interests in applications in the environmental and natural resource area. Prerequisites include a graduate-level course in microeconomic theory, such as Econ. 2010a, Econ 2020a, API-109, API-110, or permission of instructor.

3. Students who have not taken a course in negotiation will be required to attend a half-day review session during the first week of class.
4. Cross-registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course. Students outside of HSPH must request instructor permission to enroll in this course.
5. Requires permission of instructor.

APPROVED BUT NOT OFFERED IN 2023-2024:

For the below courses to be approved for the current academic year, they must be offered with the same course number, title, and instructor. The course must be reapproved if doesn't match the below version of the course.

SCHOOL	COURSE NUMBER	COURSE TITLE	FACULTY
GSD	3465	Agropolitan Futures	Cairns
GSD	4495	Highways, Deforestation, and State-driven Colonization in Amazonia	Duran
GSD	5330	Healthy Places: COVID-19 and Cities	Forsyth
GSD	5371	Critical Perspectives in Environmental Planning	Spinak
GSD	5372	Planning for Climate Change: Scarcity, Abundance and the Idea of the Future	Spinak
GSD	5395	Planning for Climate Change	Kayden
GSD	5465	Planning Sustainable Built Environments	Teicher
GSD	5469	Environmental Planning & Sustainable Development	Forman
GSD	6323	Brownfields: Remediation and Regeneration Practices	Kirkwood
GSD	6337	Changing Natural and Built Coastal Environments	Apfelbaum
GSD	6351	Urban Restoration Ecology	Handel
GSD	6374	Advanced Applications in Sustainable Architecture	Samuelson
HKS	DPI 345	Green Politics and Public Policy in a Global Age	Rouyer
HKS	IGA 413M	The Energy-Climate Transition **(Fall 2)**[1]	Lee
HKS	IGA 451M	Controversies in Climate, Energy and the Media	Russell
HKS	IGA 457	International Climate Change Policy	Stowe
HKS	IGA 565M	Analytical Methods for Complex Adaptive Systems **(Fall 1)**	Siddiqi
HLS	2294	Climate Change, Displacement and the Law	McAdam
HLS	2417	Advanced Environmental Law in Theory and Application	Lazarus
HLS	2662	Environmental Law in and After the Trump Administration	Lazarus
HLS	2717	Contemporary Issues in Oil and Gas Law: Fracking, Takings, Pipelines and Regulation	Konschnik
HLS	2921	Climate Solutions Living Lab	Joroff
HLS	2931	Powering the US Grid	Peskoe
HLS	8008	Environmental Law and Policy Clinic	Jacobs
HSPH	EH 212	Food and the Global Environment	Adamkiewicz
HSPH	EH 285	Industrial Ecology and Life Cycle Assessment	TBA
HSPH	ID 539	Built Environment, Human Transportation, Public Health and Climate Change	Lusk
HSPH	ID 539	Built Environment, Human Energy Expenditure, and Public Health	Lusk
MIT	11.148	Environmental Justice: Law and Policy	Steil
MIT	11.376	Urban Sustainability in Action	Layzer
MIT	11.449	Decarbonizing Urban Mobility	Salzberg
MIT	11.475	Navigating Power and Politics in Water and Sanitation Planning	Carolini
MIT	11.533	Ecological Planning with GIS	TBA
MIT	11.631	Regulation of Chemicals, Radiation, and Biotechnology	TBA
MIT	11.S939	Resilient Code: Mexico City a Proactive Toolkit to Foster Equitable Resilience	Bello Gomez
MIT	11.S945	Urban Ecology: Plants, People, and Climate Change	Del Tredici
MIT	11.S946	Exploring Sustainability at Different Scales	Newman

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