

## 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:

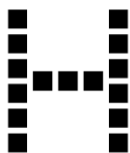
The following courses are recommended to those interested in the concentration. They are introductory level courses that give a good overview of the topics and subject matter covered in more depth by other courses in the concentration:

| SCHOOL | COURSE NUMBER | COURSE TITLE                                       | UNITS | FACULTY |
|--------|---------------|--|-------|---------|
| GSD    | 5206          | Land Use and Environmental Law <sup>1</sup> (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 <sup>1</sup>  | 4     | Kayden              |
| GSD    | 6241          | Ecologies, Techniques, Technologies III: Ecology and the Design World                            | 4     | Fernandez-Barrancos |



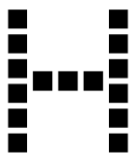
|      |                  |   |   |                    |
|------|------------------|---|---|--------------------|
| GSD  | 6244             | Climate by Design   | 4 | Whitesides, Conrad |
| GSD  | 6333             | Water, Aquatic Ecology, and Land-Water Linkages   | 4 | Dekker, Nelson     |
| GSD  | 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 <sup>2</sup>  | 4 | Frumhoff           |
| HKS  | API 170          | Managing Climate Change Risks: Information, Incentives, and Institutions  | 4 | Aldy               |
| HKS  | API 905Y         | Seminar in Environmental Economics and Policy <sup>3</sup>  | 2 | Stavins, Stock     |
| HLS  | 2074             | Environmental Law <sup>2</sup> ( <b>Open to HLS/MUP dual degrees</b> )  | 4 | Lazarus            |
| HSPH | EH 249           | Built Environment, Nature and Health <sup>2</sup> ( <b>Fall 2</b> )   | 2 | James              |
| HSPH | GHP 272          | Foundations of Global Health and Population <sup>2</sup>  | 4 | Bloom              |
| HSPH | NUT 209          | Seminars in Food Science, Technology, and Sustainability  | 2 | Apostolidis        |
| MIT  | 1.813            | Technology, Globalization, and Sustainable Development <sup>2</sup>   | 4 | Ashford            |
| MIT  | 1.834<br>2.834   | Exploring Sustainability at Different Scales  | 4 | Gutowski           |
| MIT  | 11.273           | Infrastructure Design for Climate Change <sup>2</sup>   | 2 | Einstein           |
| MIT  | 11.371           | Sustainable Energy <sup>2</sup>   | 4 | Golay              |
| MIT  | 11.373<br>12.885 | Science, Politics, and Environmental Policy <sup>2</sup>  | 4 | Solomon            |
| MIT  | 11.371           | Sustainable Energy <sup>2</sup>   | 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 <sup>2</sup>  | 4 | Hsu                |
| MIT  | 11.601           | Theory and Practice of Environmental Planning ( <i>formerly Introduction to Environmental Policy &amp; Planning</i> ) | 4 | Susskind           |
| MIT  | 15.366           | Climate & Energy Ventures <sup>3</sup>  | 4 | Hynes              |
| MIT  | 15.385           | Innovating for Impact ( <b>Fall 1</b> )   | 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 <sup>1</sup>                       | 2     | Logadottir |
| HLS    | 2123          | International Environmental Law  | 2     | Wiersema   |
| HSPH   | EH 210        | Social and Sustainable Innovation Driven by the Sustainable Development Goals <sup>2</sup> | 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.

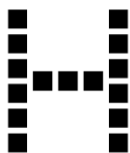


### SPRING 2024 APPROVED COURSES:

| 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 ( <b>offered jointly with HKS</b> )   | 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 ( <i>formerly Sustainable Cities and Climate Adaptation</i> ) <sup>1</sup>  |       | Macomber         |
| HKS    | API 135       | Economics of Climate Change and Environmental Policy ( <b>offered jointly with FAS</b> )   | 4     | Stavins          |
| HKS    | API 165       | Energy and Environmental Economics and Policy  | 4     | Aldy             |
| HKS    | API 905Y      | Seminar in Environmental Economics and Policy <sup>2</sup>   | 2     | Stavins, Stock   |
| HKS    | IGA 455       | Environmental Politics: Persuasion, Advocacy, and Negotiation <sup>3</sup> ( <i>formerly Building Power Through Leadership, Persuasion and Negotiation</i> ) | 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 <sup>4</sup>   | 4     | Allen            |
| HSPH   | EH 257        | Water Pollution <sup>4</sup>   | 4     | Levin            |
| HSPH   | EH 278        | Human Health and Global Environmental Change <sup>4</sup> ( <b>Spring 2</b> )  | 2     | Dresser          |
| HSPH   | EH 297        | Atmospheric Environment <sup>4</sup>   | 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 <sup>5</sup>   | 4     | Ocampo           |
| MIT    | 11.308        | Ecological Urbanism Seminar <sup>5</sup>   | 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, Cالدart |

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.

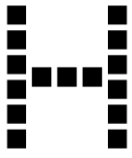


3. Students who have not taken a course in negotiation will be required to attend a half-day review session during the first week of class.
4. Cross-registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course. Students outside of HSPH must 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) <sup>1</sup>                                 | 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      |



*updated 2/13/2024*

1. *Priority enrollment is given to HKS students and may not be available to GSD students.*