

MIT UNDERGRADUATE MINOR IN ENVIRONMENT AND SUSTAINABILITY Q&A

Why should I consider the Environment and Sustainability (E&S) minor? Because...

- You will learn from stellar faculty members from across all five schools of MIT how to advance environmental solutions.
- You will be part of a multi-disciplinary cohort of students who are brought together by a common interest in environment and sustainability.
- You will apply your STEM and your major-course knowledge to some of the most important and challenging problems facing humanity.
- You will tailor your MIT education to your professional goals.
- You are passionate about making a difference in the world.

Who should take it?

Any MIT undergraduate, in any major.

What does it include?

Required courses – 2 core subjects:

- Fall 2018 – 12.385 *Science, Politics and Environmental Policy*
OR
Post-Fall 2018 – 12.387 / 15.874 / IDS.063 *People and the Planet: Environmental Governance and Science*
- Spring 11.004 / STS.033 *People and the Planet: Environmental Histories and Engineering*

Elective courses – 36 units (usually 3-4 classes). Pick from over 70 class options (see reverse side). All classes can be completed in any sequence over the course of four years.

When can I apply?

Anytime! Required core classes are offered in the fall and spring semesters. Several electives are open for first year enrollment. Connect with an advisor and enroll in the E&S minor early in your MIT career to make the most of your program.

How do I find an advisor?

Request a meeting with Sarah Meyers, Education Program Manager at the MIT Environmental Solutions Initiative (ESI), at smeyers@mit.edu or (617) 715-2606.

Where can I get more information?

About MIT ESI in general: <http://esi.mit.edu>

About E&S Minor: <http://esi.mit.edu/environment-sustainability-minor/>

Elective Subjects for Environment & Sustainability Minor

CI-H = Communication Intensive in the Humanities, Arts, and Social Sciences
 CI-HW = a subset of CI-H, with focus in writing
 HASS = Humanities, Arts, and Social Sciences
 HASS-X = a category of HASS in arts (A), humanities (H), or social sciences (S)
 LAB = Institute Laboratory
 REST = Restricted Electives in Science and Technology

Subject number	Subject title	Units and (GIRs fulfilled)
EC.701[J]	D-Lab: Development	12 (HASS-S)
EC.711[J]	D-Lab: Energy	12
EC.714	D-Lab: Earth	6
EC.715	D-Lab: Water, Sanitation and Hygiene	9
EC.716	D-Lab: Waste	9
EC.733[J]	D-Lab: Supply Chains	12
IDS.062[J]	Global Environmental Negotiations	6
SP.360	Terrascope Radio	12 (HASS-A; CI-H)
STS.009	Evolution and Society	12 (HASS-H; CI-H)
STS.032	Energy, Environment, and Society	12 (HASS-H; CI-H)
1.007	Big Engineering: Small Solutions with a Large Impact	6
1.011	Project Evaluation and Management	12
1.018A[J]	Fundamentals of Ecology I	12
& 1.018B[J]	and Fundamentals of Ecology II	
1.078	Soil and Environmental Biogeochemistry	12
1.080A	Environmental Chemistry I	12
& 1.080B	and Environmental Chemistry II	
1.089	Environmental Microbiology	12
or 1.089A	Environmental Microbiology I	6
1.801[J]	Environmental Law, Policy, and Economics: Pollution Prevention and Control	12 (HASS-S)
1.802[J]	Regulation of Chemicals, Radiation, and Biotechnology	12
2.00A	Fundamentals of Engineering Design: Explore Space, Sea and Earth	9
2.00C	Design for Complex Environmental Issues: Building Solutions and Communicating Ideas	9
2.627	Fundamentals of Photovoltaics	12
2.981	New England Coastal Ecology	3
3.094	Materials in Human Experience	9 (HASS-S)
3.982	The Ancient Andean World	9 (HASS-S)
3.983	Ancient Mesoamerican Civilization	9 (HASS-S)
4.401	Environmental Technologies in Buildings	12
4.411[J]	D-Lab Schools: Building Technology Laboratory	12 (LAB)
4.432	Modeling Urban Energy Flows for Sustainable Cities and Neighborhoods	12
4.622	Islamic Gardens and Geographies	12
8.21	Physics of Energy	12 (REST)
10.04	A Philosophical History of Energy	12
10.05	Foundational Analyses of Problems in Energy and the Environment	12
11.016[J]	The Once and Future City	12 (HASS-H; CI-H)
11.123	Big Plans and Mega-Urban Landscapes	9 (HASS-S)
11.142	Geography of the Global Economy	12 (HASS-S)
11.148	Environmental Justice: Law and Policy	12 (HASS-S)
11.162	Politics of Energy and the Environment	12 (HASS-S)

Subject number	Subject title	Units and (GIRs fulfilled)
12.000	Solving Complex Problems	9
12.001	Introduction to Geology	12 (REST)
12.002	Introduction to Geophysics and Planetary Science	12 (REST)
12.003	Introduction to Atmosphere, Ocean, and Climate Dynamics	12 (REST)
12.007	Geobiology: History of Life on Earth	12
12.021	Earth Science, Energy, and the Environment	12
12.102	Environmental Earth Science	12 (REST)
12.104	Geochemistry of Natural Waters	12
12.120	Environmental Earth Science Field Course	6
12.170	Essentials of Geology	12
12.174	Biogeochemistry of Natural and Perturbed Systems	12
12.213	Alternate Energy Sources	6
12.307	Weather and Climate Laboratory	15 (LAB)
12.335	Experimental Atmospheric Chemistry	12 (LAB)
12.349	Mechanisms and Models of the Global Carbon Cycle	12
12.385	Science, Politics, and Environmental Policy	9
17.051	Ethics of Energy Policy	12 (HASS-S)
17.181	Sustainability: Political Economy, Science, and Policy	12 (HASS-S)
17.309[J]	Science, Technology, and Public Policy	12 (HASS-S; CI-H)
17.411	Globalization, Migration, and International Relations	12 (HASS-S)
20.106[J]	Systems Microbiology	12
21A.155	Food, Culture, and Politics	12 (HASS-S)
21A.303[J]	The Anthropology of Biology	12 (HASS-S)
21A.410	Environmental Struggles	12 (HASS-S)
21G.417	Cultural Geographies of Germany: Nature, Culture, and Politics	12 (HASS-H)
21H.185[J]	Environment and History	12 (HASS-S; CI-H)
21H.380[J]	People and Other Animals	12 (HASS-S)
21H.383	Technology and the Global Economy, 1000-2000	12 (HASS-S)
21L.449	The Wilds of Literature	12 (HASS-H)
21W.012	Writing and Rhetoric: Food for Thought	12 (HASS-H; CI-HW)
21W.036	Science Writing and New Media: Writing and the Environment	12 (HASS-H; CI-HW)
21W.775	Writing about Nature and Environmental Issues	12 (HASS-H; CI-H)
22.033	Nuclear Systems Design Project	15
22.04[J]	Social Problems of Nuclear Energy	12 (HASS-S)
22.081[J]	Introduction to Sustainable Energy	12
24.03	Good Food: The Ethics and Politics of Food	12 (HASS-H; CI-H)

Check the current course catalog for updated information on subject availability.
 Additional subjects may be counted toward the Minor elective requirement in consultation with Minor advisors.

Contact esi@mit.edu with questions.

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