Social Responsibility at MIT: Suggested Courses

By MIT Student Pugwash, January 2007

web.mit.edu/pugwash
MIT offers a rich learning environment through its courses, fostering discovery of the world and solutions to contemporary and future social challenges. The ability to solve such challenges is much augmented, however, by an understanding of both the academic and the social aspects of the endeavors. For these reasons, MIT Student Pugwash has compiled this list of courses that relate to social responsibility along the lines of impacts ("how does science and engineering affect society?") and self-reflection ("what is my role as a scientist or engineer?"). They are just a small selection of many such courses at the Institute. The list is provided to help undergraduate and graduate students in course selection during their academic careers. While some courses listed here may not be offered this semester, they are included for future reference. Joint courses are mentioned only once. For more information about the courses, see the on-line MIT guide at [http://student.mit.edu/](http://student.mit.edu/).

MIT Student Pugwash is a non-partisan educational and interest group dedicated to the socially responsible application of science and technology. For more information, see our website at [http://web.mit.edu/pugwash/](http://web.mit.edu/pugwash/). For feedback on the content of this list, including suggested changes, please e-mail us at pugwash-officer@mit.edu.

<table>
<thead>
<tr>
<th>Key:</th>
<th>1.081J Course number</th>
<th>G Graduate class</th>
<th>U Undergraduate class</th>
<th>H H-level grad credit class</th>
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</table>

### 1: Civil and Environmental Engineering
1.149 G Applications of Technology in Energy and the Environment
1.812J H Regulation of Chemicals, Radiation, and Biotechnology
1.814J H Industrial Ecology
1.817J G Planning for Sustainable Development
1.818J H Sustainable Energy

### 2: Mechanical Engineering
2.813 U Environmentally Benign Design and Manufacturing
2.83 H Environmentally Benign Design and Manufacturing

### 3: Materials Science and Engineering
3.78J H Industry, Technology, and Ecology

### 4: Architecture
4.235 H Sustainable Settlement Design in Developing Countries

### 5: Chemistry
5.22J U Biotechnology and Engineering
5.92 U Energy, Environment, and Society

### 6: Electrical Engineering and Computer Science
6.805J U Ethics and the Law on the Electronic Frontier

### 7: Biology
7.547J H Principles and Practice of Drug Development

### 8: Physics
8.225J U Einstein, Oppenheimer, Feynman: Physics in the 20th Century

### 9: Brain and Cognitive Sciences
9.91 U Minds, Maps, and Models
9.914 G Minds, Maps, and Models

### 10: Chemical Engineering
10.547J H Principles and Practice of Drug Development
10.805J H Technology, Law, and the Working Environment

### 11: Urban Studies and Planning
11.366J G Planning for Sustainable Development
11.401 G Introduction to Housing and Community Development
11.497 G Human Rights in Theory and Practice
11.630J H Environmental Law, Policy and Economics: Pollution Prevention and Control

### 12: Earth, Atmospheric, and Planetary Sciences
12.103 U Strange Bedfellows: Science and Environmental Policy
12.848J H Global Climate Change: Economics, Science, and Policy

### 13: Economics
14.42 U Environmental Policy and Economics
14.420 H Environmental Policy and Economics

### 15: Management
15.268 H Choice Points: Readings on the Exercise of Power and Responsibility
15.323 G Organizations, Environments, and Social Responsibility
15.569 H Organizations as Enacted Systems: Learning, Knowing, and Change
15.655J H Law, Technology, and Public Policy
15.992 G Sustainability Lab

### 16: Aeronautics and Astronautics
16.863 H Seminar on System Safety

### 17: Political Science
17.181 U Sustainable Development: Theory, Research and Policy
17.182 G Sustainable Development: Theory, Research and Policy
17.31J U Science, Technology, and Public Policy
17.477J U Technology and Policy of Weapons Systems
17.903 U Community Service: Experience and Reflection

### 20: Biological Engineering
20.104J U Chemicals in the Environment: Toxicology and Public Health