Social Responsibility at MIT:

Suggested Courses

2003-2004

Compiled by
MIT Student Pugwash
August, 2003
MIT offers a myriad of courses in engineering, natural and social sciences, humanities and the arts. This provide a rich learning environment, fostering development and discovery of the world and of solutions to contemporary and future social challenges. The ability to solve such challenges is much augmented by an understanding of both the academic and the social aspects of the endeavor. Putting learning and research in a socially responsible context will thus help lead to better learning and better solutions. For these reasons, MIT Student Pugwash has compiled this list of courses that relate in some way to social responsibility. The list is provided to help undergraduate and graduate students alike in selection of their courses during their academic career - a tool for more complete, more valuable learning. For more information about the courses, see the on-line guide: http://student.mit.edu.

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<th>Key:</th>
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<td>1.081J</td>
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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 homepage: http://web.mit.edu/pugwash.

For feedback on the content of this list, including suggested changes, please e-mail us at pugwash-request@mit.edu.
1: Civil and Environmental Engineering
1.071J U Global Change Science
1.081J U Chemicals in the Environment: Toxicology and Public Health
1.082 U Air Pollution: Processes and Controls
1.149 G Applications of Technology in Energy and the Environment
1.253J H Transportation Policy and Environmental Limits
1.285J H Regional Socioeconomic Impact Analyses and Modeling
1.34 H Waste Containment and Remediation Technology
1.725J G Chemicals in the Environment: Fate and Transport
1.77 H Water Quality Control
1.811J H Environmental Law and Policy: Pollution Prevention and Control
1.812J H Regulation of Chemicals, Radiation, and Biotechnology
1.813J H Sustainability, Trade, and the Environment
1.814J H Industrial Ecology
1.816J H Industry, Technology, and Ecology
1.817J G Planning for Sustainable Development
1.818J H Sustainable Energy

2: Mechanical Engineering
2.63 H Applications of Technology in Energy and the Environment
2.65J H Sustainable Energy
2.813 U Environmentally Benign Manufacturing
2.83 H Environmentally Benign Manufacturing

3: Materials Science and Engineering
3.560J H Industrial Ecology
3.564J H Sustainable Energy
3.78J H Industry, Technology, and Ecology

4: Architecture
4.235 H Sustainable Settlement Design in Developing Countries
4.236J H Structuring Low-Income Housing Projects in Developing Countries
4.256J H Housing, Community Development, and Public Policy
4.257J H Property Rights Under Transition

5: Chemistry
5.00 H Applications of Technology in Energy and the Environment
5.22J U Biotechnology and Engineering
5.23 U Atmospheric Chemistry

6: Electrical Engineering and Computer Science
6.805J U Ethics and the Law on the Electronic Frontier
6.806 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
9.00 U Introduction to Psychology

10: Chemical Engineering
10.391J H Sustainable Energy
10.494 U Integrated Chemical Engineering Topics III
10.547J H Principles and Practice of Drug Development
10.579 H Applications of Technology in Energy and the Environment
10.805J H Technology, Law, and the Working Environment

11: Urban Studies and Planning
11.002J U Fundamentals of Public Policy
11.007 U Resolving Public Disputes
11.020 U Poverty, Public Policy, and Controversy
11.023 U Bridging Cultural and Racial Differences
11.102J U Theories of Economic Development
11.132 U Understanding Social Policy as Public Policy
11.163J U Law and Society
11.167 U Economic Development and Technological Capabilities
11.232 G The Uses of Social Science for Social Change
11.255 G Negotiation and Dispute Resolution in the Public Sector
11.256 G Comparative Studies of Negotiation and Dispute Resolution
11.265 H The Comparative Politics of Urban Policy
11.305 G Landscape Ecology and Urban Development
11.362 H Environmental Management
11.364 H International Environmental Negotiation
11.366J G Planning for Sustainable Development
11.367 H The Law and Politics of Land Use
11.368 G Environmental Justice
11.369J H Industry, Technology, and Ecology
11.370 H Brownfields Policy and Practice
11.371J H Sustainable Energy
11.401 G Introduction to Housing and Community Development
11.402 G Urban Politics: Race and Political Change
11.414J G Labor and Politics
11.424 G Democracy, Inequality, and the City
11.426 G Cities and Globalization
11.462 H Housing Problems and Policies in Developing Countries
11.463J H Structuring Low-Income Housing Projects in Developing Countries
11.471 H Political Economy of Development Projects: Targeting the Poor
11.479 G Water and Sanitation Infrastructure in Developing Countries
11.482J H Regional Socioeconomic Impact Analyses and Modeling
11.484 G Project Evaluation and Planning in Developing Countries
11.487 H Public Finance in Developing Countries
11.494 G Law and Politics of Local Governance
11.495 H Governance and Law in Developing Countries
11.496 G Law, Social Movements, and Public Policy: Comparative and International Experience
11.497 G Human Rights in Theory and Practice
11.543J H Transportation Policy and Environmental Limits
11.601 G Introduction to Environmental Policy and Regulation
11.620 G Practicum in Environmental Management
11.630J H Environmental Law and Policy: Pollution Prevention and Control
11.631J H Regulation of Chemicals, Radiation, and Biotechnology

12: Earth, Atmospheric, and Planetary Sciences
12.103 U Strange Bedfellows: Science and Environmental Policy
12.213 U Alternate Energy Sources
12.300J U Global Change Science
12.305 U Global Atmospheric Pollution
12.807 H Atmospheric Chemistry
12.848J H Global Climate Change: Economics, Science, and Policy

14: Economics
14.21J U Health Economics
14.286J H Health Economics Seminar
14.292 H Antitrust Seminar
14.42 U Environmental Policy and Economics
14.420 H Environmental Policy and Economics
14.63 U Labor in Industrial Society
14.64 U Labor Economics and Public Policy
14.74 U Foundations of Development Policy
14.75J U Theories of Economic Development
14.772 H Development Economics: Macroeconomics

15: Management
15.023J H Global Climate Change: Economics, Science, and Policy
15.136J H Principles and Practice of Drug Development
15.141J H Economics of the Health Care Industries
15.268 H Choice Points: Readings on the Exercise of Power and Responsibility
15.269 G Literature, Ethics, and Authority
15.323 G Organizations, Environments, and Social Responsibility
15.628 H Patents, Copyrights, and the Law of Intellectual Property
15.655J H Law, Technology, and Public Policy
15.657J H Sustainability, Trade, and the Environment

17: Political Science
17.000J H Political Philosophy
17.006 H Feminist Political Thought
17.007J U Feminist Political Thought
17.01J U Justice
17.02 U Liberty: An Introduction to the Practice of Political Theory
17.181 U Sustainable Development: Theory, Research and Policy
17.182 G Sustainable Development: Theory, Research and Policy
17.188J G Labor and Politics
17.195 U Globalization
17.196 H Globalization
17.245 U The Supreme Court, Civil Liberties, and Civil Rights
17.249J U Law and Society
17.30J U Fundamentals of Public Policy
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<th>21W: Writing &amp; Humanistic Studies</th>
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<td>21W.742J U Writing About Race</td>
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<th>22: Nuclear Engineering</th>
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<td>22.77 H Nuclear Waste Management</td>
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<td>22.811J H Sustainable Energy</td>
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<td>22.812J H Nuclear Energy Economics and Policy Analysis</td>
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<td>22.813 H Applications of Technology in Energy and the Environment</td>
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<th>24: Linguistics and Philosophy</th>
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<tr>
<td>24.02 U What is the Best Way to Live?</td>
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<td>24.04J U Justice</td>
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<td>24.205 U The Good Life</td>
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<td>24.231 U Ethics</td>
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<td>24.601 H Topics in Moral Philosophy</td>
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<tr>
<th>BE: Biological Engineering</th>
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<tr>
<td>BE.104J U Chemicals in the Environment: Toxicology and Public Health</td>
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<td>BE.106 U Infectious Agents and the Environment</td>
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<th>CMS: Comparative Media Studies</th>
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<td>CMS.874 G Visualizing Cultures</td>
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<td>CMS.881 H Democratic Engagement and Communication Policy</td>
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<th>ESD: Engineering Systems Division</th>
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<tr>
<td>ESD.053J U Chemicals in the Environment: Toxicology and Public Health</td>
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<tr>
<td>ESD.10 H Introduction to Technology and Policy</td>
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<td>ESD.123J H Industrial Ecology</td>
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<td>ESD.126 H Energy Systems and Economic Development</td>
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<td>ESD.128J H Global Climate Change: Economics, Science, and Policy</td>
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<td>ESD.132J H Law, Technology, and Public Policy</td>
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<td>ESD.133J H Environmental Law and Policy: Pollution Prevention and Control</td>
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<td>ESD.136J H Technology, Law, and the Working Environment</td>
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<td>ESD.137J H Sustainability, Trade, and the Environment</td>
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<td>ESD.151J G Chemicals in the Environment: Fate and Transport</td>
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<td>ESD.156J G Policy Choice and Global Environmental Issues</td>
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<td>ESD.163J H Nuclear Energy Economics and Policy Analysis</td>
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<td>ESD.166J H Sustainable Energy</td>
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<td>ESD.193J H Regional Socioeconomic Impact Analyses and Modeling</td>
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<td>ESD.222J H Transportation Policy and Environmental Limits</td>
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<th>HST: Harvard-MIT Division of Health Sciences and Technology</th>
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<tr>
<td>HST.071 H Human Reproductive Biology</td>
</tr>
<tr>
<td>HST.161 H Molecular Biology and Genetics in Modern Medicine</td>
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<tr>
<td>HST.220 H Introduction to the Care of Patients</td>
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<tr>
<td>HST.230 H Real Medicine</td>
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<td>HST.391 H Principles of Clinical Investigation Seminar</td>
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HST.502  G  Survival Skills for Researchers: The Responsible Conduct of Research
HST.512  H  Genomic Medicine
HST.513  H  Genomic Medicine
HST.901J  U  Health Economics
HST.903J  H  Health Economics Seminar
HST.920J  H  Principles and Practice of Drug Development
HST.930J  G  Social Studies of Biosci and Biotech
HST.935  G  Narrative Ethics: Literary Texts and Moral Issues in Medicine

**Naval Science**
NS.402  U  Leadership and Ethics

**STS: Science, Technology, and Society**
STS.011  U  American Science: Ethical Conflicts and Political Choices
STS.042J  U  Einstein, Oppenheimer, Feynman: Physics in the 20th Century
STS.046J  U  The Science of Race, Sex, and Gender in the United States
STS.048  U  African Americans in Science, Technology, and Medicine
STS.049J  U  Technology and Gender in American History
STS.069  U  Technology in a Dangerous World
STS.071J  U  US Military Power
STS.075J  U  Technology and Culture
STS.076J  U  Technology and Policy of Weapons Systems
STS.082J  U  Science, Technology, and Public Policy
STS.085J  U  Ethics and the Law on the Electronic Frontier
STS.320  H  Environmental Conflict and Social Change

STS.415J  H  Nature, Environment, and Empire
STS.435J  H  Nuclear Forces and Missile Defenses
STS.448  H  Science, Media, and Social Movements
STS.449J  G  Social Studies of Biosci and Biotech
STS.450J  H  US Military Power
STS.455  H  Ecocrisis or Ecomyth? Historical and Philosophical Roots of Environmental Policy
STS.456  H  Energy, Environment, and Global Politics

**Special Programs**
SP.457J  U  Gender, Power, and International Development
SP.575J  U  Writing About Race
SP.604J  U  Race, Gender, and Law
SP.660  U  Gender, Work, and Public Policy

**Undergraduate Seminars**
12.S54  U  Understanding Global Change: What Will the Earth Be Like 100 Years from Now?