

ENERGY STUDIES MINOR APPLICATION

You may type your information into this form. You cannot save the data and return to it later.

Name: _____ MIT ID: _____

MIT Course (major): _____

Expected Date for Award of S.B.: Feb. June Sept. Year: _____

Faculty Advisor (major): _____ Email: _____

Energy Studies Minor Advisor: _____ Email: _____

Student Term Address: _____

Student Phone: _____ Student Email: _____

STUDENT: Fill out this form by the end of your sophomore year, but no later than Add Date one full term before the term you expect to receive the S.B. degree. Meet with the Energy Studies Minor Advisor in the field of your major to plan your program of study and complete the application; bring a copy of your unofficial transcript (available free of charge at the Student Services Center, 11-120) to the meeting with your advisor. Give a copy of the signed application to the Energy Studies Minor Advisor and to the MIT Energy Initiative Education Office (E19-307K).

The Energy Studies Minor consists of three required subjects and 24 units of electives. Your planned program for the Energy Studies Minor includes the subjects listed below. Any changes in this program must have prior approval of your Energy Studies Minor Advisor and must be entered on this application.

ENERGY STUDIES MINOR ADVISOR: To make changes, cross out deleted subjects. Date and initial all changes.

ENERGY STUDIES MINOR REQUIREMENTS

(1) One subject from each of the following three domain areas. Approved subjects in each area are listed below.

- a. Energy Science Foundations
- b. Social Science Foundations of Energy (*note that 14.01 Microeconomics or its equivalent is a pre-requisite*)
- c. Energy Technology/Engineering in Context

(2) Twenty-four (24) elective units from the list of approved energy studies minor electives (see other side).

Students who take more than one subject from any of the Required Subjects lists may count the additional coursework toward the elective requirement.

REQUIRED SUBJECTS (3)

Energy Science Foundations

Choose one:

- 2.005** Thermal Fluids Engineering 1
- 5.60** Thermodynamics and Kinetics
- 6.007** Electromagnetic Energy: From Motors to Lasers
- 8.21** Physics of Energy
- 12.021** Earth Science, Energy, and the Environment
- 12.340** Global Warming Science

Social Science Foundations of Energy

Required:

- 15.031J** Energy Decisions, Markets, and Policies
- Note:** *14.01 Microeconomics or its equivalent is a prerequisite to 15.031J*

Energy Technology/Engineering in Context

Choose one:

- 2.60J** Fundamentals of Advanced Energy Conversion
- 4.42J** Fundamentals of Energy in Buildings
- 22.081J** Introduction to Sustainable Energy

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APPROVED ELECTIVES (24 units)

Choose 24 units from the following:

- 1.071J Global Change Science (12 units)
- 1.801J Environmental Law, Policy, and Economics: Pollution Prevention and Control (12 units)
- 2.570 Nano-to-Macro Transport Processes (12 units)
- 2.612 Marine Power and Propulsion (12 units)
- 2.627 Fundamentals of Photovoltaics (12 units)
- 4.401 Introduction to Building Technology (12 units)
- 5.92J Projects in Energy (9 units)
- 6.061 Introduction to Electric Power Systems (12 units)
- 6.131 Power Electronics Laboratory (12 units)
- 6.701 Introduction to Nanoelectronics (12 units)
- 10.04J A Philosophical History of Energy (12 units)
- 11.162 Politics of Energy and the Environment (12 units)
- 11.165 Infrastructure in Crisis: Energy and Security Challenges (12 units)
- 11.168 Enabling an Energy-Efficient Society (12 units)
- 11.369J Energy Policy for a Sustainable Future (12 units)
- 12.213 Alternate Energy Sources (6 units)
- 14.42 Environmental Policy and Economics (12 units)
- 14.44 Energy Economics and Policy (12 units)
- 15.026J Global Climate Change: Economics, Science, and Policy (9 units)
- 15.366 Energy Ventures (12 units)
- 15.933 Strategic Opportunities in Energy (6 units)
- 22.033 Nuclear Systems Design Project (12 units)
- 22.06 Engineering of Nuclear Systems (12 units)
- STS.032 Energy, Environment, and Society (12 units)

REQUIRED SUBJECTS (3)

Energy Science Foundations Subject Number: _____ Subject Name: _____

Social Science Foundations Subject Number: _____ Subject Name: _____

Energy Technology/Engineering Subject Number: _____ Subject Name: _____

ELECTIVE SUBJECTS (24 units)

Elective Subject Number: _____ Subject Name: _____ # units: _____

Elective Subject Number: _____ Subject Name: _____ # units: _____

Elective Subject Number: _____ Subject Name: _____ # units: _____

Minor Advisor's Signature

Date of Approval

For Office Use Only

Date Received

Contact Amanda Graham, director, MITEI Education Office, Room E19-370K, 617-253-8995, agraham@mit.edu, or visit <http://web.mit.edu/mitel/education/index.html> with questions.