Minor in Atmospheric Chemistry

Atmospheric Chemistry is an interdisciplinary field that blends fundamental science with engineering and policy. It is a domain that is growing in scope, complexity, and demand, as society grapples with burgeoning global, regional, and local challenges including those in energy and public health. The minor is offered by the Departments of Earth, Atmospheric, and Planetary Sciences, Civil and Environmental Engineering, Chemistry, Engineering Systems Division, and Aeronautics and Astronautics. The minor requires six subjects. The core of the minor consists of four required subjects spanning thermodynamics and kinetics, atmospheric and ocean dynamics, air pollution, and atmospheric physics and chemistry, complemented by (at least) one subject in observations/applications, and one subject in the links of atmospheric chemistry to policy.

Chemistry, Dynamics, and the Atmosphere

Required subjects:
12.003 Introduction to Atmosphere, Ocean, and Climate Dynamics
5.60 Thermodynamics and Kinetics
1.085J Air Pollution
12.306 Atmospheric Physics and Chemistry

Observations/Applications

One of the following:
1.080 Environmental Chemistry
12.335 Experimental Atmospheric Chemistry
12.338 Aerosol and Cloud Microphysics and Chemistry

or

12.310 An Introduction to Weather Forecasting
and
12.IND Independent Study

Linkages of Atmospheric Chemistry to Policy

One of the following:
12.385 Environmental Science and Society
12.340 Global Warming Science
12.346 Global Environmental Science and Politics

A minimum of four subjects taken for the Atmospheric Chemistry minor cannot also count toward a major or another minor.

Additional information about the minor can be obtained from Professor Susan Solomon, solos@mit.edu, or from Dr. Vicki McKenna, EAPS Education Director, 54-911, 617-253-3380, vsm@mit.edu.