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 (http://catalog.mit.edu/schools/science/earth-atmospheric-planetary-sciences), Civil and Environmental Engineering (http://catalog.mit.edu/schools/engineering/civil-environmental-engineering), Chemistry (http://catalog.mit.edu/schools/science/chemistry), and Aeronautics and Astronautics (http://catalog.mit.edu/schools/engineering/aeronautics-astronautics), and the Institute for Data, Systems, and Society (http://catalog.mit.edu/schools/engineering/data-systems-society). The minor requires five subjects. The core of the minor consists of three 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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>1.085[J]</td>
<td>Air Pollution and Atmospheric Chemistry</td>
<td>12</td>
</tr>
<tr>
<td>or 12.306</td>
<td>Atmospheric Physics and Chemistry</td>
<td></td>
</tr>
<tr>
<td>5.60</td>
<td>Thermodynamics and Kinetics</td>
<td>12</td>
</tr>
<tr>
<td>12.003</td>
<td>Introduction to Atmosphere, Ocean, and Climate Dynamics</td>
<td>12</td>
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Observations/Applications

Select one of the following: 12

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>1.080</td>
<td>Environmental Chemistry</td>
<td></td>
</tr>
<tr>
<td>12.310</td>
<td>An Introduction to Weather Forecasting and Independent Study</td>
<td></td>
</tr>
<tr>
<td>12.335</td>
<td>Experimental Atmospheric Chemistry</td>
<td></td>
</tr>
<tr>
<td>12.338</td>
<td>Aerosol and Cloud Microphysics and Chemistry</td>
<td></td>
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</table>

Linkages of Atmospheric Chemistry to Policy

Select one of the following: 9

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>12.301</td>
<td>Climate Science</td>
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<tr>
<td>12.346[J]</td>
<td>Global Environmental Negotiations</td>
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</tr>
<tr>
<td>12.385</td>
<td>Science, Politics, and Environmental Policy</td>
<td></td>
</tr>
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Total Units 57-60

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

Further information on the minor may be obtained from Professor Susan Solomon (solos@mit.edu), or from Dr. Megan Jordan (mkjordan@mit.edu), EAPS Academic Program Administrator, 54-910, 617-253-3380.