MINOR IN ASTRONOMY

The Minor in Astronomy, offered jointly by the Department of Earth, Atmospheric, and Planetary Sciences (http://catalog.mit.edu/ schools/science/earth-atmospheric-planetary-sciences) and the Department of Physics (http://catalog.mit.edu/schools/science/ physics), covers the observational and theoretical foundations of astronomy. The minor requires seven subjects as follows:

**Astronomy, Mathematics, and Physics**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.03</td>
<td>Physics III</td>
<td>12</td>
</tr>
<tr>
<td>8.282[J]</td>
<td>Introduction to Astronomy</td>
<td>9</td>
</tr>
<tr>
<td>18.03</td>
<td>Differential Equations</td>
<td>12</td>
</tr>
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**Astrophysics**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>8.284</td>
<td>Modern Astrophysics</td>
<td>12</td>
</tr>
<tr>
<td>or 8.286</td>
<td>The Early Universe</td>
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</table>

**Planetary Astronomy**

Select one of the following: 12

- 12.400  Our Space Odyssey
- 12.420  Essentials of Planetary Science

**Instrumentation and Observations**

Select one of the following: 12-18

- 12.410[J] Observational Techniques of Optical Astronomy
- 12.43[J] Space Systems Engineering
- 12.431[J] Space Systems Development

**Independent Project in Astronomy**

Select one of the following: 9-12

- 8.UR Undergraduate Research
  or 12.UR Undergraduate Research
- 8.THU Undergraduate Physics Thesis
  or 12.THU Undergraduate Thesis
- 12.411 Astronomy Field Camp

Total Units 78-87

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\[18.032 \text{ Differential Equations is also an acceptable alternative.}\]

A maximum of three subjects can count toward the astronomy minor, and a major or another minor. Further information on the minor can be obtained from Professor Richard Binzel (rpb@mit.edu), 54-426, 617-253-6486.