**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 (^1)</td>
<td>12</td>
</tr>
</tbody>
</table>

### 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>
<td></td>
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</tbody>
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### Planetary Astronomy

Select one of the following: 12

- 12.400 | The Solar System  
- 12.420 | Physics and Chemistry of the Solar System  

### 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

\(^1\) 18.032 Differential Equations is also an acceptable alternative.

A minimum of four subjects taken for the astronomy minor cannot also count toward a major or another minor. Further information on the minor may be obtained from Professor Paul Schechter (schech@mit.edu), 37-664G, 617-253-0690.