PLANETARY SCIENCE AND 
ASTRONOMY, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<td>Requirements for the Minor</td>
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Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student’s major(s).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Prescribed Courses: Require a grade of C or better</strong></td>
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<tr>
<td>ASTRO 401</td>
<td>Fundamentals of Planetary Science and Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>ASTRO 402W</td>
<td>Astronomical Telescopes, Techniques, and Data Analysis</td>
<td>3</td>
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<td><strong>Additional Courses: Require a grade of C or better</strong></td>
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<tr>
<td>Select one of the following:</td>
<td>3</td>
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<tr>
<td>ASTRO 1</td>
<td>Astronomical Universe</td>
<td></td>
</tr>
<tr>
<td>ASTRO 5</td>
<td>The Sky and Planets</td>
<td></td>
</tr>
<tr>
<td>ASTRO 6</td>
<td>Stars, Galaxies, and the Universe</td>
<td></td>
</tr>
<tr>
<td>ASTRO 10</td>
<td>Elementary Astronomy</td>
<td></td>
</tr>
<tr>
<td>ASTRO 11</td>
<td>Elementary Astronomy Laboratory</td>
<td></td>
</tr>
<tr>
<td>ASTRO 291</td>
<td>Astronomical Methods and the Solar System</td>
<td></td>
</tr>
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<td>Select three of the following:</td>
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<tr>
<td>ASTRO 120</td>
<td>The Big Bang Universe</td>
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<tr>
<td>ASTRO 130</td>
<td>Black Holes in the Universe</td>
<td></td>
</tr>
<tr>
<td>ASTRO 140</td>
<td>Life in the Universe</td>
<td></td>
</tr>
<tr>
<td>ASTRO 292</td>
<td>Astronomy of the Distant Universe</td>
<td></td>
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</tbody>
</table>