# Earth and Sustainability, 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>Prescribed Courses: Require a grade of C or better</td>
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<tr>
<td>EARTH 103N</td>
<td>Earth in the Future: Predicting Climate Change and Its Impacts Over the Next Century</td>
<td>3</td>
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<tr>
<td>EARTH 402</td>
<td>Modeling the Earth System</td>
<td>3</td>
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<td>Additional Courses: Require a grade of C or better</td>
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<td>Supporting Courses and Related Areas: Require a grade of C or better</td>
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<td>Select three from the approved list of EMS courses. Approved courses are:</td>
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<tr>
<td>EGEE 401</td>
<td>Energy in a Changing World</td>
<td></td>
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<tr>
<td>EME 444</td>
<td>Global Energy Enterprise</td>
<td></td>
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<tr>
<td>EME 460</td>
<td>Geo-resource Evaluation and Investment Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 412</td>
<td>Human Use of Environment</td>
<td></td>
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<tr>
<td>GEOG 430</td>
<td>Geography of Water Resources</td>
<td></td>
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<tr>
<td>GEOG 431</td>
<td>Energy Policy</td>
<td></td>
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<tr>
<td>GEOG 432</td>
<td>Human Dimensions of Global Warming</td>
<td></td>
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<tr>
<td>GEOG 469</td>
<td>Energy Industry Applications of GIS</td>
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<tr>
<td>GEOSC 402Y</td>
<td>Natural Disasters</td>
<td></td>
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<tr>
<td>GEOSC 451</td>
<td>Natural Resources: Origins, Economics and Environmental Impact</td>
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<tr>
<td>GEOSC 452</td>
<td>Hydrogeology</td>
<td></td>
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<tr>
<td>METEO 469</td>
<td>From Meteorology to Mitigation: Understanding Global Warming</td>
<td></td>
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</tbody>
</table>