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>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for the Minor</td>
<td>18</td>
</tr>
</tbody>
</table>

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).

Code | Title                                                                 | Credits |
---   |-----------------------------------------------------------------------|---------|
Prescribed Courses: Require a grade of C or better
EARTH 103N | Earth in the Future: Predicting Climate Change and Its Impacts Over the Next Century | 3       |
EARTH 402 | Modeling the Earth System | 3       |
Additional Courses: Require a grade of C or better
Select three of the following: 9
EARTH 104N | Climate, Energy and Our Future |         |
EARTH 111 | Water: Science and Society |         |
EARTH 107N | Coastal Processes, Hazards and Society |         |
GEOG 3N | Food and the Future Environment |         |
Supporting Courses and Related Areas: Require a grade of C or better
Select 3 credits from the approved list of EMS courses. Approved courses are:
EGEE 401 | Energy in a Changing World | 3       |
EME 444 | Global Energy Enterprise |         |
EME 460 | Geo-resource Evaluation and Investment Analysis |         |
GEOG 412 | |         |
GEOG 430 | Human Use of Environment |         |
GEOG 431 | Geography of Water Resources |         |
GEOG 432 | Energy Policy |         |
GEOG 438W | Human Dimensions of Global Warming |         |
GEOG 469 | Energy Industry Applications of GIS |         |
GEOSC 402Y | Natural Disasters |         |
GEOSC 451 | Natural Resources: Origins, Economics and Environmental Impact |         |
GEOSC 452 | Hydrogeology |         |
METEO 469 | From Meteorology to Mitigation: Understanding Global Warming |         |