

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

Requirement	Credits
Requirements for the Minor	18

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/students/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/>).

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		
<i>Prescribed Courses: Require a grade of C or better</i>		
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		
<i>Additional Courses: Require a grade of C or better</i>		
Select three of the following:		9
EARTH 104N	Climate, Energy and Our Future	
EARTH 111		
EARTH 107N	Coastal Processes, Hazards and Society	
GEOG 3N	Food and the Future Environment	
Supporting Courses and Related Areas		
<i>Supporting Courses and Related Areas: Require a grade of C or better</i>		
Select 3 credits from the approved list of EMS courses. Approved courses are:		3
EGEE 401	Energy in a Changing World	
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	