

SUBSURFACE ENERGY ENGINEERING, 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.

Spring 2026 Curricular Update: *The program description, entrance requirements, and program requirements detailed on this page are effective beginning Spring 2026. To learn more about what approved curricular changes take effect in Spring 2026, please visit the Changes to the UG Bulletin page (<https://bulletins.psu.edu/undergraduate/general-information/using-this-bulletin/#changestotheugbulletintext>). To view the requirements in effect for Fall 2025, please visit the 2025-26 Undergraduate Bulletin PDF (<https://bulletins.psu.edu/pdf/undergraduate.pdf>).*

Program Requirements

Requirement	Credits
Requirements for the Minor	18

Requirements for the Minor

A minimum of 18 credits is required 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>		
EME 200	Subsurface Energy Engineering	3
PNG 305	Rock and Fluid Properties	3
PNG 410	Reservoir Engineering	3
Additional Courses		
<i>Additional Courses: Require a grade of C or better</i>		
Select 9 credits from the following:		9
EBF 484	Energy Economics	
EME 460	Geo-resource Evaluation and Investment Analysis	
ENVSE 408	Contaminant Hydrology	
GEOSC 454	Geology of Oil and Gas	
MNG 410	Underground Mining	
PNG 420	Applied Reservoir Analysis and Secondary Recovery	
PNG 430	Reservoir Modeling	
PNG 440W	Formation Evaluation	
PNG 450	Drilling Engineering	
PNG 460	Subsurface Storage Engineering	
PNG 475	Production and Completions Engineering	