NUCLEAR 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.

Program Requirements

Requirement	Credits
Requirements for the Minor	18-20

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		
Prescribed Courses: Require a grade of C or better		
NUCE 301	Fundamentals of Reactor Physics	4
NUCE 310W	Issues in Nuclear Engineering	2
Additional Courses		
Additional Courses: Require a grade of C or better		
Select 0-8 credits in Reactor Design and Thermodynamics from the following:		0-8
NUCE 302	Introduction to Reactor Design	
NUCE 309	Analytical Techniques for Nuclear Concept	
NUCE 321	Introduction to Thermal-Fluid Sciences for Nuclear Engineers - I	
or CHE 220	Introduction to Chemical Engineering Thermodynamics	
or CHEM 450	Physical Chemistry - Thermodynamics	
or EMCH 302	Thermodynamics, Heat Conduction, and Principles of Modeling, Honors	
or EME 301	Thermodynamics in Energy and Mineral Engineering	
or MATSE 40	Thermodynamics of Materials	
or ME 201	Introduction to Thermal Science	
or ME 300	Engineering Thermodynamics I	
NUCE 322	Introduction to Thermal-Fluid Sciences for Nuclear Engineers - II	
or AERSP 317	Aerodynamics I	
or CE 360	Fluid Mechanics	
or CHE 330	Process Fluid Mechanics	
or EME 303	Fluid Mechanics in Energy and Mineral Engineering	
or ME 320	Fluid Flow	
Select 6-12 credits of 400-Level Courses. Students should consult the Department of Nuclear Engineering for the up-to-date list of approved 400-level courses that meet this requirement.		6-12

Some prescribed or additional courses may require prerequisites and/or concurrent enrollment in courses not required by the minor. Students are advised to consult the current bulletin listing for each course to ensure prerequisites and concurrent requirements are satisfied prior to enrollment in courses for the minor.