

# SERVICE ENTERPRISE 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

### 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
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
IE 460	Service Systems Engineering	3
IE 478	Retail Services Engineering	3
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select 6 credits from Engineering Cluster:		6
IE 302	Engineering Economy	
IE 322	Probabilistic Models in Industrial Engineering	
IE 323	Statistical Methods in Industrial Engineering	
IE 330	Engineering Analytics	
IE 402	Advanced Engineering Economy	
IE 405	Deterministic Models in Operations Research or MATH 484 Linear Programs and Related Problems	
IE 424	Process Quality Engineering	
IE 467	Facility Layout and Location	
IE 468	Optimization Modeling and Methods	
IE 480W	Capstone Design Project	
Select 6 credits from the Service Cluster:		6
HDFS 311	Human Development and Family Studies Interventions	
HDFS 455	Development and Administration of Human Services Programs	
HPA 332	Health Systems Management	
HPA 433	Administration of Hospital and Health Service Systems	
HPA 442	Long-Term Care Management	
HPA 475	Health Care Quality	