

OFF-ROAD EQUIPMENT, 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

The minor in Off-Road Equipment requires 18-20 credits from the approved courses. Courses in the minor have prerequisites including calculus, physics, and, depending on the student's major, at least one engineering or engineering technology type course (e.g., ABSM 301). These courses should be completed prior to entering 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>		
ABSM 420	Principles of Off-Road Machines	3
Additional Courses		
<i>Additional Courses: Require a grade of C or better</i>		
ABSM 320 or ME 431	Combustion Engines for Mobile Equipment Internal Combustion Engines	3
BE 461 or ABSM 426	Design of Fluid Power Systems Safety and Health in Agriculture and Biorenewable Industries	3
Select 3 credits of the following:		3
ABSM 310	Power Transmission in Agriculture	
BE 306	Machine Design for Agricultural and Biological Engineering	
ME 360	Mechanical Design	
Select 3-4 credits of the following:		3-4
ABSM 428	Electric Power and Instrumentation	
BE 305	Agricultural Measurements and Control Systems	
ME 345	Instrumentation, Measurements, and Statistics	
Select 3-4 credits of the following:		3-4
ABSM 424	Precision Agriculture Technology	
AGRO 423	Forage Crop Management	
AGRO 425	Field Crop Management	
HORT 408	Landscape Plant Establishment and Maintenance	
TURF 425	Turfgrass Cultural Systems	