

MECHATRONICS, 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	19-22

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>		
EE 210	Circuits and Devices	4
Additional Courses		
<i>Additional Courses: Require a grade of C or better</i>		
Select one of the following:		3
CMPSC 121	Introduction to Programming Techniques	
CMPSC 200	Programming for Engineers with MATLAB	
CMPSC 201	Programming for Engineers with C++	
Select 6-8 credits of the following: ¹		6-8
<i>Group A</i>		
CMPEN 270	Digital Design: Theory and Practice or CMPEN 271: Introduction to Digital Systems and Digital Design Laboratory & CMPEN 27	
CMPEN 331	Computer Organization And Design or EE 310 Electronic Circuit Design I or EE 387 Energy Conversion	
<i>Group B</i>		
ME 345	Instrumentation, Measurements, and Statistics or ME 345W Instrumentation, Measurements, and Statistics	
ME 357	System Dynamics	
Select 6-7 credits of the following (one course each from Category I and II):		6-7
<i>Category I</i>		
CMPEH 472	Microcontrollers	
CMPEN 472	Microprocessors and Embedded Systems	
EE 485	Energy Systems and Conversion	
EE 487	Electric Machinery and Drives	
ME 445	Microcomputer Interfacing for Mechanical Engineers	
<i>Category II</i>		
EE 483	Introduction to Automation and Robotics Systems	
ME 455	Automatic Control Systems	
ME 456	Introduction to Robotics	

¹ Students graduating with a M E major should take 7-8 credits from Group A; students graduating with an EE major should take 7 credits from group B; all other students should take 6-8 credits from both A and B.