

# MINOR IN COMPUTER ENGINEERING

## REQUIREMENTS

The curriculum consists of prerequisite, core, and elective courses. Excluding prerequisite courses, 18 credits are required for the minor; at least 9 of those credits must be in courses not required but could be taken as electives, for the major.

Students must have a grade-point average of 2.2 or above in required and elective ECE courses taken for the minor to fulfill minor requirements.

Code	Title	Credits
<b>Prerequisites</b>		
The following courses must be completed before beginning the minor program.		
APSC 2113	Engineering Analysis I <sup>1</sup>	
ECE 1120	C Programming for Electrical and Computer Engineering	
PHYS 1022	University Physics II <sup>1</sup>	
or PHYS 1026	University Physics II with Biological Applications	
<b>Core</b>		
ECE 2110	Circuit Theory	
ECE 2115	Engineering Electronics	
ECE 2140	Design of Logic Systems	
<b>Electives</b>		
Two courses selected from the following for a total of at least 6 credits:		
ECE 3130	Digital Electronics and Design	
ECE 3135	Digital Design with Field-Programmable Gate Arrays	
ECE 3220	Introduction to Digital Signal Processing <sup>1</sup>	
ECE 3310	Introduction to Electromagnetics	
ECE 3515	Computer Organization	
ECE 3520	Microprocessors: Software, Hardware, and Interfacing	
ECE 3525	Introduction to Embedded Systems <sup>1</sup>	
ECE 4140	VLSI Design and Simulation <sup>1</sup>	
ECE 4535	Computer Architecture and Design <sup>1</sup>	

ECE 4415 Introduction to Computer Networks <sup>2</sup>

ECE 4425 Data Communications Laboratory <sup>2</sup>

<sup>1</sup> Requires additional prerequisites.

<sup>2</sup> ECE 4415 Introduction to Computer Networks and ECE 4425 Data Communications Laboratory must be taken concurrently.

Visit the program website (<https://www.ece.seas.gwu.edu/undergraduate-programs/>) for additional information.