

# 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
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### Prerequisites

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

### Core

ECE 2110	Circuit Theory
ECE 2115	Engineering Electronics
ECE 2140	Design of Logic Systems

### Electives

Two of the following:

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.