

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.

ECE 4415 Introduction to Computer Networks²

ECE 4425 Data Communications Laboratory²

¹ Requires additional prerequisites.

² 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.

Code	Title	Credits
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Prerequisites

The following courses must be completed before beginning the minor program.

APSC 2113	Engineering Analysis I ¹
ECE 1120	C Programming for Electrical and Computer Engineering
PHYS 1022	University Physics II ¹
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 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 ¹
ECE 3310	Introduction to Electromagnetics
ECE 3515	Computer Organization
ECE 3520	Microprocessors: Software, Hardware, and Interfacing
ECE 3525	Introduction to Embedded Systems ¹
ECE 4140	VLSI Design and Simulation ¹
ECE 4535	Computer Architecture and Design ¹