

# The Department of Engineering

## Computer Engineering Minor

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### About:

The Computer Engineering minor is open to all students who satisfy the prerequisites for the list of required courses.

### Requirements:

The Computer Engineering minor requires the successful completion of seven courses and five laboratories (26 credits). Five required courses, five required laboratories, and two elective courses.

### Required Courses:

<b>Course</b>	<b>Title</b>	<b>Credits</b>
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
ECE 2170	Fundamentals of CPE	3
ECE 2171	Fundamentals of CPE Lab	1
ECE 2172	Digital Systems	3
ECE 2173	Digital Systems Lab	1
ECE 2160	C++ Algorithms & Data Struct	3
ECE 2161	C++ Algorithms&Data Struct Lab	1
ECE 3170	Computer Architecture	3
ECE 3171	Computer Architecture Lab	1

## Elective Courses:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

**Select two courses from the list below:**

<b>Course</b>	<b>Title</b>	<b>Credits</b>
ECE 2530	Analog Electronics I	3
ECE 3476	Computer and Network Security	3
ECE 3180	Computer Networks	3
ECE 5170	Intro to Post-Quantum Computin	3
ECE 5172	Fund of Digitl Hardware Design	3
ECE 5250	Biomedical Instrumentation	3
ECE 5251	Biomedical Signal Processing	3
ECE 5252	Medical Imaging	3
ECE 5400	Applied Machine Learning	3
ECE 5450	Microcontrollers & Applic	3
ECE 5478	Eng Secure Cyber-Physical Sys	3