

Computer Engineering Minor 2022-2023 Curriculum Chart

Math

MATH 19A
Calculus

AM 20*
Engr. Math Methods II

OR

MATH 24*
Differential Equations

MATH 19B
Calculus

CSE 16
Applied Discrete Mathematics

**Requires one additional mathematics course as a pre-requisite.*

Physics

PHYS 5A/L**
Mechanics

PHYS 5C/N**
Electricity & Magnetism

***See back*

Programming

CSE 20
Beginning
Programming in
Python

CSE 12
Computer Systems
& Assembly
Language

CSE 30
Programming
Abstractions: Python

ECE 13
Computer Systems
and C
Programming

OR

CSE 13S
Computer Systems
and C
Programming

CSE 101
Intro to Data Structures and
Algorithms

Upper Division Courses

CSE 100/L
Logic Design and
Laboratory

CSE 121
Embedded System
Design

OR

ECE 118
Introduction to
Mechatronics

CSE 120
Computer
Architecture

ECE 101/L
Introduction to
Electronic Circuits
and Lab

The computer engineering minor provides a solid foundation in digital hardware, electronics, and computer software, as well as the prerequisite material in mathematics and physics. The minor is well-suited to students who wish to take part in the design of computer and embedded systems in any discipline. Electrical and Computer Engineering 118, *Introduction to Mechatronics* or Computer Science and Engineering 121, *Embedded System Design* provides a capstone engineering design experience for students pursuing the computer engineering minor.

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Fall _____	Winter _____	Spring _____	Summer _____
Fall _____	Winter _____	Spring _____	Summer _____
Fall _____	Winter _____	Spring _____	Summer _____
Fall _____	Winter _____	Spring _____	Summer _____

**Students can take PHYS 6A/L and PHYS 6C/N in place of PHYS 5A/L and PHYS 5C/N for the Computer Engineering Minor. It is recommended that students take the Physics 5 series as it is a prerequisite for upper division courses (ex. CSE 121)

Student Name:
Staff Advisor:
Faculty Advisor: