

# Computer Engineering Minor 2020-2021 Curriculum Chart

## Math

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**MATH 19A**  
Calculus

**AM 20\***  
Engr. Math Methods II

OR

**MATH 24\***  
Differential Equations

**MATH 19B**  
Calculus

**CSE 16**  
Applied Discrete Math

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

## Physics

**PHYS 5A/L or 6A/L**  
Mechanics

**PHYS 5C/N or 6C/N**  
Electricity & Magnetism

## Programming

**CSE 20**  
Beginning  
Programming in  
Python

**CSE 12/L**  
Computer Systems  
& Assembly  
Language

**CSE 30**  
Programming  
Abstractions: Python

**CSE 13E**  
Embedded  
Systems and C  
Programming

OR

**CSE 13S**  
Computer Systems  
and C  
Programming

**CSE 101**  
Algorithms and Abstract  
Data Types

## Upper Division Courses

**CSE 100/L**  
Logic Design and  
Laboratory

**CSE 121/L**  
Microprocessor  
System Design and  
Laboratory

OR

**ECE 118/L**  
Introduction to  
Mechatronics and  
Laboratory

**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/L, *Introduction to Mechatronics and Laboratory* or Computer Science and Engineering 121/L, *Microprocessor System Design and Laboratory* provides a capstone engineering design experience for students pursuing the computer engineering minor.

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Fall _____	Winter _____	Spring _____	Summer _____

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Student Name:
Staff Advisor:
Faculty Advisor: