**Math**

- **MATH 19A**
  Calculus

- **MATH 19B**
  Calculus II

- **AM 20***
  Engr. Math Methods II OR **MATH 24***
  Differential Equations

- **CSE 16**
  Applied Discrete Mathematics

*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

**Lower Division Courses**

- **CSE 20**
  Beginning Programming in Python

- **CSE 30**
  Programming Abstractions: Python

- **CSE 12**
  Computer Systems & Assembly Language

- **ECE 13**
  Computer Systems and C Programming OR **CSE 13S**
  Computer Systems and C Programming

**Upper Division Courses**

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

- **CSE 101**
  Intro to Data Structures and Algorithms

- **CSE 120**
  Computer Architecture

- **CSE 121***
  Embedded System Design OR **ECE 118**
  Introduction to Mechatronics

- **ECE 101/L**
  Introduction to Electronic Circuits and Lab

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

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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.