

# COMPUTER ENGINEERING, MINOR (ENGINEERING)

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Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Description

The Computer Engineering Minor provides students with the fundamental topics of computer hardware design, including digital logic design, computer organization, computer communication networks and computer architecture. Complimenting these core topics are elective courses in areas including embedded systems, digital integrated circuits, field programmable devices, and functional verification. This minor complements disciplines related to computing and that make use of specialized computing hardware. Students in majors related to computer engineering will already have the mathematics and physics background to pursue this major without taking additional foundational courses.

## What is Computer Engineering?

Computer engineering is the study of the design, analysis, and implementation of computer systems including processors, memory, embedded devices, and data communication systems for a wide range of application domains. It includes the study of digital systems, computer architecture, and computer networks. It encompasses many design activities spanning from designing individual logic components to designing complete computer systems composed of hardware, software, and hardware-software co-design. Computer engineering drives the development of new computing systems that enable the latest technologies impacting our everyday lives.

## You Might Like This Program If...

- You excel in math and physics and have an interest in working with computer hardware.
- You want to understand how current computer hardware and software work together.
- You want to work with computing systems that impact and improve everyday lives.