

Are You Interested in an Engineering Minor?

An engineering minor is beneficial to both engineering students and non-engineering students. For engineering students, a minor within the College of Engineering will further his or her knowledge within other engineering disciplines. For non-engineering majors, a minor in engineering would be of particular interest to students pursuing a career in an engineering related field, and to science students who need an approved minor to graduate.

College of Engineering Minor

Humanitarian Engineering Minor - The Humanitarian Engineering minor is designed to give students the understanding and the opportunity to apply engineering concepts to improve the welfare of the less advantaged. The 18 credits needed to complete this minor are fulfilled through courses intended to enhance cultural awareness and to help students identify problems that can be solved by the application of engineering principles.

One of three GS 180 credits that make up the 18 required credits must include participation in Engineers Without Borders activities or a similar approved engineering project. Students earning a Humanitarian Engineering minor will have a unique credential that may give them an advantage in securing positions with non-profit organizations or other areas of humanitarian engineering.

Departmental Minors

An engineering student seeking further breadth in their course of study may wish to earn one or more minors within the College of Engineering. The following minors are available to engineering majors:

Civil Engineering - A minor in Civil Engineering is available to students majoring in computer, electrical, or mechanical engineering. A minimum of 18 credit hours in Civil Engineering, excluding CE 202, is required.

Electrical Engineering - A minor in Electrical Engineering is available for students majoring in civil or mechanical engineering. A minimum of 19 credit hours is required.

Mechanical Engineering - A minor in Mechanical Engineering is available for students majoring in civil, computer, or electrical engineering. A minimum of 19 credit hours is required.

Digital Systems Design - This minor is available to qualified students who wish to document training in computer hardware, but do not wish to major in electrical or computer engineering. The courses required for this minor are ECE 221, 222, and 322 and two of the following: ECE 424, 429, or 450. This minor is available to any student, except those in the ECE department, who meet all prerequisites necessary to enroll in those courses that constitute the minor.

Interdisciplinary Minors

Environmental Studies Minor – This minor will broaden the experiences of students with traditional majors by exposing them to approaches used by various disciplines and sectors of society that are attempting to solve complex environmental problems. A minimum of 20 credit hours is required to complete this minor.

Minors for Non-Engineering Majors

A student in an engineering-related field may choose to pursue the engineering minor. This minor is particularly helpful to students who start in engineering and choose to change their major to a related field or for those that plan to work closely with engineers.

Engineering Minor- For non-engineering students, this minor offers an introduction to foundational areas of engineering. A minimum of 18 credit hours of engineering courses is required for this minor. Of these, at least 9 credits must be from 200-level or higher courses.