CEE Minor

The CEE Minor is designed to provide non-CEE majors knowledge of the topics common to a civil engineering degree. All courses in the minor are taught in the CEE major and therefore are taught in a manner consistent with the major’s Program Goals, Student Learning Goals, and Student Learning Outcomes as presented for ABET accreditation. The CEE Minor consists of 18 or 19 credit hours, depending on the sequence pursued.

This minor provides additional students access to the coursework in civil and environmental engineering. The work environment is increasingly collaborative and providing the opportunity for a student to be educated in an additional area of study will increase their job opportunities and help to create a more productive workforce.

Coursework

Students in the minor choose one of two sequences of courses within CEE. The sequences were selected in order to provide students the opportunity to obtain depth in sub-areas of civil engineering through selections of courses that follow a logical progression of prerequisites. All students in the minor must take the required course. Student then select the structures sequence OR the Environmental/Water Resources Sequence.

Required Course (2 credits)

ENGR 01271 – Statics (2 cr)

Structures Sequence (16 or 17 Cr)

ENGR 01291 – Dynamics (2 cr)
ENGR 01272 – Solid Mechanics (2 cr) or ENGR 01273 – Strength of Materials (3 cr)
CEE 08382 – Structural Analysis (3 cr)
CEE 08383 – Analysis and Design of Steel Frames (3 cr)
Two Civil Engineering Structures Electives selected with an advisor (6 cr)

Environmental/Water Resources Sequence (17 cr)

CEE 08305 – Civil Engineering Systems (3 cr)
ENGR 01341 – Fluid Mechanics (2 cr)
CEE 08311 – Environmental Engineering I (3 cr)
CEE 08342 – Water Resources Engineering (3 cr)
Two Civil Engineering Electives selected with an advisor (6 cr)
Requirements for Admission and Graduation:

1. Admission:
Admission requires approval of the CEE program chair or associate chair. A student will need to complete Calculus I and Calculus II, Chemistry I, and Introductory Mechanics before being considered for acceptance into the minor. A minimum GPA of 3.0 is required for admission into the CEE Minor, but this minimum GPA may be raised as space limitations dictate. Students should be aware that most upper level courses in CEE also require Calculus III, Linear Algebra, and Ordinary Differential Equations (or equivalents) as prerequisites and selection of courses should be done in consultation with an advisor.

2. Graduation:
Completion of 18 or 19 credit hours following one of the recommended sequences of courses within the minor is required. Students must have a 2.0 GPA in the minor courses.

3. Student Status:
Students must maintain a minimum GPA of 2.0 in the required minor courses.