

# C E 455: Civil Engineering Design I Civil Engineering

Initial course in capstone design sequence. Individual and group experience in identifying objectives, major activities affecting cost/schedule, and roles of private and public organizations in civil engineering projects; introduction to regional and national building code provisions for access, egress, and structural safety; creativity in the design process and selection of competitive alternatives; preliminary site planning and facility design; preliminary group planning of a significant civil engineering project. Introduction to the use of computational tools for analysis, design, and visualization.

## 2 Credits **Prerequisites**

• Pre-Requisite: 24 Earned Hours

#### One-way corequisites

- C E 412: Design of Concrete Structures
- C E 433: Foundation Engineering
- C E 481: Transportation Engineering I
- C E 472: Water Resources Engineering

### Instruction Type(s)

• Lecture: Lecture for C E 455

## Course Fee(s) Civil Engineering 3

• \$200.00

#### **Subject Areas**

• Civil Engineering, General

#### Related Areas

- Civil Engineering, Other
- Geotechnical and Geoenvironmental Engineering
- Structural Engineering
- Transportation and Highway Engineering
- Water Resources Engineering

