

# C E 455: Civil Engineering Design I

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

PrerequisitesPre-Requisite: 24 Earned Hours

## One-way corequisites

- C E 412: Design of Concrete Structures
- C E 433: Foundation Engineering
- <u>C E 481: Transportation Engineering I</u>
- <u>C E 472: Water Resources Engineering</u>
- <u>C E 472. Water Resources Engineen</u>

#### Instruction Type(s)

Lecture: Lecture for C E 455

#### Course Fee(s)

- **Civil Engineering 3**
- \$200.00

#### Subject Areas

<u>Civil Engineering, General</u>

#### **Related Areas**

- <u>Civil Engineering, Other</u>
- Geotechnical and Geoenvironmental Engineering
- <u>Structural Engineering</u>
- <u>Transportation and Highway Engineering</u>
- Water Resources Engineering

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