

# 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

# Prerequisites

• Pre-Requisite: 24 Earned Hours

#### **One-way corequisites**

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

### Instruction Type(s)

• Lecture/Lab: Lecture/Lab for C E 455

## **Subject Areas**

• Civil Engineering, General

#### **Related Areas**

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

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