

## **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/Lab: Lecture/Lab for C E 455

### **Subject Areas**

- [Civil Engineering, General](#)

### **Related Areas**

- [Civil Engineering, Other](#)
- [Geotechnical and Geoenvironmental Engineering](#)
- [Structural Engineering](#)
- [Transportation and Highway Engineering](#)
- [Water Resources Engineering](#)

