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

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 2
- $100.00 when booked for:
  - Spring, Second Spring, May, Full Summer, First Summer, Second Summer, August 2016-17

Civil Engineering 3
- $200.00 when booked for:
  - Fall, First Fall, Second Fall, Winter, Spring, First Spring, Second Spring 2017-18

Subject Areas
- Civil Engineering, General

Related Areas
- Geotechnical and Geoenvironmental Engineering
- Structural Engineering
- Transportation and Highway Engineering
- Water Resources Engineering