C E 455: Civil Engineering Design I

Civil Engineering Design I is an initial course in the capstone design sequence. It emphasizes individual and group experience in identifying objectives, major activities affecting cost/schedule, and roles of private and public organizations in civil engineering projects. The course introduces regional and national building code provisions for access, egress, and structural safety. It covers creativity in the design process and selection of competitive alternatives, preliminary site planning and facility design, and preliminary group planning of a significant civil engineering project. The course also introduces 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
- Geotechnical and Geoenvironmental Engineering
- Structural Engineering
- Transportation and Highway Engineering
- Water Resources Engineering