

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>
- C E 472: Water Resources Engineering

Instruction Type(s)

Lecture: Lecture for C E 455

Subject Areas

<u>Civil Engineering, General</u>

Related Areas

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



