C E 412: Design of Concrete Structures

Civil Engineering

Strength analysis and design of reinforced concrete structural elements using ACI requirements. Rectangular and T sections in bending. Shear reinforcement in beams. Short columns. Footings and retaining walls. Introduction to analysis and design of steel structural elements.

3 Credits

Prerequisites

- Pre-Requisite: 24 Earned Hours

One-way corequisites

- C E 311: Structural Analysis

Cross-listed Courses

- M E 422: Structural Design I

Instruction Type(s)

- Lecture: Lecture for C E 412

Course Fee(s)

Civil Engineering 2

- $100.00

Subject Areas

- Civil Engineering, General
- Structural Engineering

Related Areas

- Geotechnical and Geoenvironmental Engineering
- Transportation and Highway Engineering
- Water Resources Engineering