

# C E 412: Design of Concrete Structures

Srength analysis and design of reinforced concrete structural elements using ACI requirements. Retangular 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**

<u>C E 311: Structural Analysis</u>

#### Instruction Type(s)

• Lecture: Lecture for C E 412

#### Subject Areas

- <u>Civil Engineering, General</u>
- Structural Engineering

## **Related Areas**

- Civil Engineering, Other
- Geotechnical and Geoenvironmental Engineering
- Transportation and Highway Engineering
- Water Resources Engineering

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