

# C E 412: Design of Concrete Structures CIVIL ENGINEERING

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

• C E 411: Structural Analysis

#### **Cross-listed Courses**

M E 422: Structural Design I

## Instruction Type(s)

• Lecture: Lecture for C E 412

#### Subject Areas

- Civil Engineering, General
- Structural Engineering

## **Related Areas**

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

