

## **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**

- [C E 311: Structural Analysis](#) \$target.descriptions.MinimumGrade\$
- Pre-Requisite: 24 Earned Hours

#### **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](#)

