

# **C E 412: Design of Concrete Structures** <u>Civil Engineering</u>

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>

#### **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**

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

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