

# 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>

# **Cross-listed Courses**

• M E 422: Structural Design I

#### Instruction Type(s)

• Lecture: Lecture for C E 412

## Course Fee(s)

Civil Engineering<sup>2</sup> • \$100.00

## **Subject Areas**

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

# **Related Areas**

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

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