

# C E 412: Structural Design I

Design of steel and concrete structural members according to ACI and AISC LRFD specifications; reinforced concrete and rolled steel sections subject to axial force, flexure, shear, torsion, and combined loading; fatigue and fracture; introduction to connections.

### 3 Credits

Prerequisites

• Pre-Requisite: 24 Earned Hours

# **One-way corequisites**

<u>C E 411: Structural Analysis</u>

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

• M E 422: Structural Design I

# Instruction Type(s)

• Lecture: Lecture for C E 412

#### **Subject Areas**

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

#### **Related Areas**

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

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