

## **C E 412: Structural Design I**

### **CIVIL ENGINEERING**

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**

- [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](#)

