

## **C E 411: Structural Analysis**

### **CIVIL ENGINEERING**

Classification and analysis of simple structural systems; ASCE-7 provisions for minimum loads; virtual work and virtual displacement methods; introduction to flexibility and displacement matrix methods; stiffness matrices for rod, frame, and slab elements; computational tools.

3 Credits

#### **Prerequisites**

- [Engr 312: Mechanics of Materials](#)
- Pre-Requisite: 24 Earned Hours

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

- [M E 421: Structural Analysis](#)

#### **Instruction Type(s)**

- Lecture: Lecture for C E 411

#### **Subject Areas**

- [Civil Engineering, General](#)
- [Structural Engineering](#)

#### **Related Areas**

- [Civil Engineering, Other](#)
- [Geotechnical and Geoenvironmental Engineering](#)
- [Transportation and Highway Engineering](#)
- [Water Resources Engineering](#)

