

# **M E 421: Structural Analysis**

## **[Mechanical 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**

- [C E 421: Matrix Analysis of Structures](#)

### **Subject Areas**

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

