

# 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**

<u>C E 421: Matrix Analysis of Structures</u>

### Subject Areas

- Mechanical Engineering
- Civil Engineering, General

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