

## **C E 421: Matrix Analysis of Structures**

### **CIVIL ENGINEERING**

Virtual work and virtual displacement methods; introduction to the flexibility and displacement matrix methods; stiffness matrices for rod, frame, and slab elements; introduction to structural dynamics and elastic stability; computational tools.

3 Credits

### **Prerequisites**

- [C E 311: Structural Analysis](#)
- Pre-Requisite: 24 Earned Hours

### **Cross-listed Courses**

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

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

- Lecture: Lecture for C E 421

### **Subject Areas**

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

### **Related Areas**

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

