

# 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](#) \$target.descriptions.MinimumGrade\$
- 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](#)

