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, General
- Geotechnical and Geoenvironmental Engineering
- Structural Engineering
- Transportation and Highway Engineering
- Water Resources Engineering