# Engr 590: Finite Element Analysis I

## SCHOOL OF ENGINEERING

Introduction to the finite element method; formulation of linear BVP arising in engineering analysis; solution of model problems in 1D and 2D; shape functions and numerical integration; element formulations; applications in solid and fluid mechanics.

3 Credits

## Prerequisites

- Math 353: Elementary Differential Equations $target.descriptions.MinimumGrade$
- Prerequisite: Math 353 or graduate standing

## Instruction Type(s)

- Lecture: Lecture for Engr 590
- Lecture: Web based lecture for Engr 590

## Subject Areas

- Engineering, General
- Civil Engineering, General
- Mechanical Engineering