

# 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

- <u>Math 353: Elementary Differential Equations</u>
- 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
- <u>Civil Engineering, General</u>
- Mechanical Engineering

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