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

Instruction Type(s)
- Lecture: Lecture for Engr 590
- Lecture: Web based lecture for Engr 590

Subject Areas
- Engineering, General
- Civil Engineering, General
- Mechanical Engineering

Related Areas
- Environmental/Environmental Health Engineering
- Geotechnical and Geoenvironmental Engineering
- Structural Engineering
- Transportation and Highway Engineering
- Water Resources Engineering