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