

## 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
- <u>Civil Engineering, General</u>
- <u>Mechanical Engineering</u>

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

