

Engr 554: Computational Heat Transfer Mechanical Engineering

Analytical and computational solution methods on various conduction and convection heat transfer problems, including 1D steady and transient conduction heat transfer with and without heat generation, external forced convection heat transfer over a plane surface, laminar and turbulent internal convection heat transfer, natural convection over a rotating cylinder, convection heat transfer from a bank of tube arrays.

3 Credits Prerequisites

- Engr 321: Thermodynamics
- Engr 323: Fluid Mechanics

Instruction Type(s)

• Lecture: Lecture for Engr 554

Subject Areas

<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.

