

# 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](#) \$target.descriptions.MinimumGrade\$
- [Engr 323: Fluid Mechanics](#) \$target.descriptions.MinimumGrade\$

### Instruction Type(s)

- Lecture: Lecture for Engr 554

### Subject Areas

- [Mechanical Engineering](#)

