

# ENGR4150 : Heat Transfer

Fundamentals of heat transfer by conduction, convection, and radiation. Applications to heat exchanges, tubes, surfaces, phase changes, and mass transfer. Numerical methods for solving heat transfer problems. Design of equipment involving heat-transfer processes. Steady-state and transient heat conduction; role of convection for internal and external forced flows and in buoyancy-driven flow; thermal radiation processes and properties. **Fee:** Additional fee required.

**Credits** 3

**Prerequisite Courses**

ENGR3110

**Fees**

\$330