

# ME 5155: Constructal Theory&Design

Basic principles of fluid mechanics, heat transfer and thermodynamics; internal spacing for natural and forced convection; tree networks for fluid flow; multiscale configurations for heat transfer, multi-objective configurations; vascularized materials: mechanical and flow structures; electrokinetic transfer.

**Credits:** 3.0

**Prerequisites:**

ME 3600 and ME 3950

**Program:** [Mechanical Engineering](#)