

## **MAE 3240 Heat Transfer**

Dates:May 22-July 2, 2014Day/Time:MTWR 11:30 AM - 12:45 PM Upson Hall 211Credits:3Instructor:Michel Louge

**Description:** Heat transfer occurs in all aspects of modern engineering and in most natural phenomena. They are crucial to applications as diverse as rockets, engines, powerplants and computer laptops. They govern the physics of stars, global climate change, and biological processes. In this class, topics include: steady and unsteady heat conduction; forced and free convection; external and internal flows; radiation heat transfer; and heat exchangers. In this course, you will learn the terminology and physical principles of heat transfer, develop a broad understanding of its basic modes (conduction, convection, radiation), and become proficient at predicting them.



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