

Mechanical and Industrial Engineering 354
Spring 2011

Heat Transfer
Course Syllabus

<u>Date</u>	<u>Topics to be Covered</u>	<u>Suggested Reading</u>
Week 1 (1/17/2011)	Introductory Material and Control Volume Analysis	Chapter 1
Week 2 (1/24/2011)	Conduction - Fourier's law	Chapter 2
Week 3 (1/31/2011)	1D Steady State Conduction, Fins	Chapter 3
Week 4 (1/22/2011)	Analytical and numerical solutions to 2D Conduction problems	Chapter 4
Week 5 (2/7/2011)	Transient Conduction No class 2/22 – Monday schedule followed Exam #1 – Thursday 2/24/11 in class	Chapter 5
Week 6 (2/14/2011)	More Transient Heat Transfer	Chapter 5
Week 7 (2/21/2011)	Convection, External Flows	Chapter 6&7
Week 8 (2/28/2011)	More Convection	
Week 9 (3/7/2011)	Internal Flows	Chapter 8
Week 10 (3/14/2011)	Natural (Free) Convection	Chapter 9
Week 11 (3/21/2011)	Radiation	Chapter 12
Week 12 (3/28/2011)	Exam #2	
Week 13 (4/4/2011)	More Radiation	
Week 14 (4/11/2011)	Heat Exchangers	Chapter 13
Week 15 (4/18/2011)	Boiling and Condensation	Chapter 11
Week 16 (4/25/2011)	Final Exam (Date and time TBA)	Chapter 10
Week 17 (5/2/2011)		

