



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Thermodynamics and Heat Transfer
Course Number: MET227

Required Materials

Textbook(s): Fundamentals of Thermal-Fluid Sciences, by Cengel, Cimbala and Turner
Required Readings: None
Additional Materials: None

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Chapter 4: Properties of Pure Substances,
2	Chapter 4: Properties of Pure Substances
3	Chapter 5: Energy Analysis of Closed Systems
4	Lab 1: Heat Engine, Review, Exam 1
5	Chapter 6: Mass and Energy Analysis of Control Volumes
6	Chapter 6: Mass and Energy Analysis of Control Volumes
7	Chapter 6: Mass and Energy Analysis of Control Volumes, Chapter 8:Entropy
8-9	Chapter 8: Entropy, Chapter 9: Power & Refrigeration Cycles
10	Chapter 9: Power & Refrigeration Cycles
11	Lab 2: Refrigeration, Review
12	Exam 2, Chapter 16:Mechanisms of Heat Transfer
13	Chapter 17: Steady Heat Conduction
14	Chapter 18: Transient Heat Conduction
15	Chapter 18: Transient Heat Conduction, Lab 3: Calorimetry
16	Review – Exam 3, Final Exam