## ME 40 Thermodynamics (CCN 55356)

## Fall 2015

Wednesday August 26<sup>th</sup> to Tuesday December 15<sup>th</sup>, 2015

Instructor:	Dr. David Rich (daverich@berkeley.edu, rich@ Office: 60 A Hesse Hall Office Hours: TBD	reaxengineering.com)
GSIs:	Xian Shi (xshi@berkeley.edu), Y Fung (wingtak@berkeley.edu)	ulin Chen (yulinchina@berkeley.edu), Wing Tak
Text:	Cengel & Boles, Thermodynami	cs: An Engineering Approach
Lecture:	MWF 3:00-4:00 PM, 105 North	Gate
Discussions:	Tu 5-6, 1165 Etcheverry, (55359) Th 5-6, 3113 Etcheverry, (55362) Tu 4-5, 141 Giannini, (55365)	
Final Exam:	Thursday December 18 <sup>th</sup> , 2014	(3 hours)
Website:	bSpace	
Grading:	Homework Quizzes (2) Final	15% 60% 35%
Homework:	Graded for completion plus o introduction and due in 1 week	ne or more for quality. Assigned after chapter from assigned date.
Quizzes:	Two mid-terms and one final, closed book and note.	
Final:	The final will be comprehensive and similar in format to the quizzes.	

**Cheating:** Don't do it. If you are unclear what constitutes cheating, ask your GSI. As a member of the campus community, you are expected to demonstrate integrity in all of your academic endeavors and will be evaluated on your own merits.

**Students with a Disability:** If you need special accommodations in this class, please inform the course administrators immediately.

Neek	Day	Date (2015)	Action
1	Wednesday	26-Aug	Chpt. 1 Introduction and Basic Concepts
	Friday	28-Aug	Chpt. 1 Introduction and Basic Concepts
2	Monday	31-Aug	Chpt. 2 Energy, Energy Transfer and Analysis
	Wednesday	2-Sep	Chpt. 2 Energy, Energy Transfer and Analysis
	Friday	4-Sep	Chpt. 3 Properties of Pure Substances
3	Monday	7-Sep	Academic Holiday
	Wednesday	9-Sep	Chpt. 3 Properties of Pure Substances
	Friday	11-Sep	Chpt. 3 Properties of Pure Substances
4	Monday	14-Sep	Chpt. 4 Energy Analysis of Closed Systems
	Wednesday	16-Sep	Chpt. 4 Energy Analysis of Closed Systems
	Friday	18-Sep	Chpt. 4 Energy Analysis of Closed Systems
5	Monday	21-Sep	Chpt. 5 Mass and Energy Analysis of Control Volume
	Wednesday	23-Sep	Chpt. 5 Mass and Energy Analysis of Control Volume
	Friday	25-Sep	Chpt. 5 Mass and Energy Analysis of Control Volume
6	Monday	28-Sep	Midterm 1
	Wednesday	30-Sep	Chpt. 6 Second Law of Thermodynamics
	Friday	2-Oct	Chpt. 6 Second Law of Thermodynamics
7	Monday	5-Oct	Chpt. 7 Entropy 1
	, Wednesday	7-Oct	Chpt. 7 Entropy 1
	Friday	9-Oct	Chpt. 7 Entropy 1
8	Monday	12-Oct	Chpt. 9 Gas Power Cycles
	Wednesday	14-Oct	Chpt. 9 Gas Power Cycles
	Friday	16-Oct	Chpt. 9 Gas Power Cycles
	Monday	19-Oct	Chpt. 10 Vapor and Combined Power Cycles
9	Wednesday	21-Oct	Chpt. 10 Vapor and Combined Power Cycles
	Friday	23-Oct	Chpt. 10 Vapor and Combined Power Cycles
10	Monday	26-Oct	Midterm 2
	Wednesday	28-Oct	Chpt. 11 Refrigeration Cycles
	Friday	30-Oct	Chpt. 11 Refrigeration Cycles
	Monday	2-Nov	Chpt. 12 Thermodynamic Property Relations
11	Wednesday	4-Nov	Chpt. 12 Thermodynamic Property Relations
	Friday	6-Nov	Chpt. 12 Thermodynamic Property Relations
	Monday	9-Nov	Chpt. 13 Gas Mixtures
12	Wednesday	11-Nov	Academic Holiday
	Friday	13-Nov	Chpt. 14 Gas Mixtures and HVAC
	Monday	16-Nov	Chpt. 14 Gas Mixtures and HVAC
13	Wednesday	18-Nov	Chpt. 14 Gas Mixtures and HVAC
10	Friday	20-Nov	Chpt. 15 Chemical Reactions
	Monday	23-Nov	Chpt. 15 Chemical Reactions
14	Wednesday	25-Nov	Non-Instructional Day
	Friday	23-Nov	Academic Holiday (and Thursday 26-Nov)
15	Monday	30-Nov	Review
	Wednesday	2-Dec	Review
	Friday	4-Dec	Formal Classes End
16		7-Dec	Reading/Review/Recitation Week
	Monday Wednesday	9-Dec	Reading/Review/Recitation Week
	Friday	11-Dec	Reading/Review/Recitation Week
17	Monday	14-Dec	Start of Final Exam Week
	Tuesday	15-Dec	Final 7-10 PM