

ChE 273
Schedule

Lecture	Day	Date	Topic	Reading Due	Homework Due (3rd Ed)	Assign. #	Mathcad?	
1	M	Jan. 9	Stream Variables, Units	2.0-2.6	Info Sheet			
2	W	11	Interpolation, Curve-Fitting	2.7-2.8	2.2,2.6*#,2.8,2.11,Sp2.1	1	no	
3	F	13	Composition, Basis, Temp	3.0-3.3; 3.5	2.17,2.23,2.31,2.40	2	no	
4	M	16	M.L. King Holiday					
5	W	18	Pressure	3.4,3.6	3.3*,3.8,3.18,3.22	3	no	
6	F	20	Balances	4.0-4.2	Sp3.1,3.32,3.43,3.48#	4	no	
	M	23	Degrees of Freedom	4.3	4.1,4.2,4.3,Sp4.1	5	no	
7	W	25	Mass Balance (Non Reacting)	4.3	4.6,4.11*,4.14	6	no	
8	F	27	Multi-Unit Processes	4.4	4.16*,4.17,4.20	7	no	
9	M	30	Recycle, Purge	4.5	4.28,4.29	8	no	
10	W	Feb 1	Review for Exam		4.31,4.32*,4.34	9	no	
11	F	3	Exam #1 (2/2 to 2/6)					
12	M	6	Reaction Stoichiometry	4.6				
13	W	8	Balances on Reacting Systems	4.7	4.39,4.40,14.1	10		
14	F	10	DOF, Examples	4.8	4.43,4.45,4.50*	11		
15	M	13	Combustion Reactions	4.8-4.10	4.53,4.59*	12		
16	W	15	Ideal Gases and Liquids	5.0-5.2	4.68,4.70*	13		
17	F	17	Non-Ideal Gases	5.3-5.5	5.12,5.23*,5.27,5.34	14		
	M	20	Presidents' Day Holiday					
18	Tue	21	Vapor-Liquid Systems	6.1-6.2	5.63,5.67,5.77,5.80*	15		
19	W	22	Raoult's Law	6.3-6.4	6.2,6.6,6.9,Sp6a	16		
20	F	24	Bubble & Dew Points	6.4	6.18*,6.25,6.33	17		
21	M	27	Solid-solid, liquid-liquid	6.5-6.8	6.60*,6.61	18		
22	W	Mar 1	Review for Exam		6.68,6.95,Sp6b	19		
	Th	2	Dean's Lecture					
23	F	3	Exam #2 (3/2 to 3/6)					
24	M	6	Conservation of Energy	7-7.3				
25	W	8	Open Systems - 1st Law	7.4-7.5	7.1,7.6,7.9,7.10*	20		
26	F	10	Examples	7.6	7.16,7.21*,7.22,7.28*	21		
27	M	13	Mechanical Energy Balances	7.7-7.8	7.33,7.41*,7.42	22		
28	W	15	Heat Capacities	8.1-8.4c	7.51,7.56	23		
	F	17	Winter Holiday - No Classes					
29	M	20	Psychrometric Charts	8.4d-e	8.5,8.8,8.9*	24		
30	W	22	Heats of Reaction	9.1-9.4	8.72*,8.74,8.76	25		
	Th	23	Dean's Lecture					
31	F	24	Energy Balances - Reactions	9.5a-b***	9.5,9.7,Sp9a	26		
32	M	27	Solid Fuels	9.6b	9.23,9.32	27		
33	W	29	Adiabatic Flame Temperature	9.5c-9.6a	Sp9b, 9.54	28		
34	F	31	Transient Balances	11-11.2	Sp9c,9.56	29		
35	M	Apr 3	Review for Exam		11.6,11.9,Sp11	30		
36	W	5	Exam #3 (4/4 to 4/7)					
37	F	7	case study	14				
38	M	10	case study		14.1-14.5			
39	W	12	case study		14.6-14.10			
40	F	14	case study		14.11-14.15			
41	M	17	case study		14.16-14.20			
42	W	19	Review for Final Exam		Case Study Due!			
	Tue	Apr 25	Final Exam - 7-10 am					
*Student Workbook Problem								
#Change made in a number, please check the homework helps online								
**Tuesday, Feb 21 is a BYU "Monday"								
***Skip Heat of reaction method on pages 450-451, skip examples 9.5-1 and 9.5-3								
Dr. Fletcher will be gone these days								