

ChEn 273
Tentative Schedule

Fall, 2022

Lecture	Day	Date	Topic	Reading Due	Homework Due	Assign. #
1	M	Aug 29	Units, Curve-fitting, Interpolation	2.0-2.6	Info Sheet	1
2	W	31	Composition, Basis, Temp	3.0-3.3; 3.5	HW2	2
3	F	Sep 2	Pressure	3.4,3.6	HW3	3
	M	5	Labor Day Holiday			
4	W	7	Balances	4.0-4.2	HW4	4
5	F	9	Degrees of Freedom	4.3	HW5	5
6	M	12	Mass Balance (Non Reacting)	4.3	HW6	6
7	W	14	Multi-Unit Processes	4.4	HW7	7
8	F	16	Recycle, Purge	4.5	HW8	8
9	M	19	Reaction Stoichiometry	4.6	HW9	9
10	W	21	Balances on Reacting Systems	4.7	HW10	10
11	F	23	DOF, Examples, Ty Carlson	4.8	HW11	11
12	M	26	Combustion Reactions	4.8-4.10	HW12	12
13	W	28	Review for Exam		HW13	13
14	F	30	Exam #1			
15	M	Oct 3	Ideal Gases and Liquids	5.0-5.2		
16	W	5	Non-Ideal Gases	5.3-5.5	HW14	14
17	F	7	Vapor-Liquid Systems	6.1-6.2	HW15	15
18	M	10	Raoult's Law	6.3-6.4	HW16	16
19	W	12	Bubble & Dew Points	6.4	HW17	17
20	F	14	Solid-solid, liquid-liquid	6.5-6.8	HW18	18
21	M	17	Review for Exam		HW19	19
22	W	19	Exam #2			
23	F	21	Conservation of Energy	7-7.3		
24	M	24	Open Systems - 1st Law	7.4-7.5	HW20	20
25	W	26	Examples	7.6	HW21	21
26	F	28	Mechanical Energy Balances	7.7-7.8	HW22	22
27	M	31	Heat Capacities	8.1-8.4c	HW23	23
28	W	Nov 2	Psychrometric Charts	8.4d-e	HW24	24
29	F	4	Heats of Reaction	9.1-9.4	HW25	25
30	M	7	Energy Balances - Reactions	9.5a-b***	HW26	26
31	W	9	Energy Balances -Rxns, Ty Carlson	9.5a-b***	HW27	27
32	F	11	Solid Fuels	9.6b	HW28	28
33	M	14	Adiabatic Flame Temperature	9.5c-9.6a	HW29	29
34	W	16	Transient Balances	10-10.2#	HW30	30
35	F	18	Review for Exam		HW31	31
36	M	21	Exam #3			
37	Tu	22	case study	14		
	W	23	No Class			
	F	25	Thanksgiving Holiday			
38	M	28	case study		14.1-14.5	
39	W	30	case study		14.6-14.10	
40	F	Dec 2	case study		14.11-14.15	
41	M	5	case study		14.16-14.20	
42	W	7	Review for Final Exam		Case Study Due!	
	Tu	13	Final Exam - 7-10 am			
#Chapter 11 in 3rd Edition						
**Tuesday, Nov 26 is a BYU "Friday"						
***Skip Heat of reaction method on pages 504-506, skip examples 9.5-1 and 9.5-3						
Dr. Fletcher will be gone these days						