

Chemical Engineering 641 Spring 2007

Class	Day	Date	Topic	Reading
1	W	2-May	Introduction, Discussion of Content for Course Equilibrium Concepts	
2	F	4	Lab - Equilibrium program demos More Equilibrium Concepts	Proposal Due May 4 Equilibrium Hints
3	M	7	Lab - Work on equilibrium projects Intro to ChemKin	
4	W	9	Equilibrium presentations Lab - ChemKin Demo 1	
5	F	11	PSR/Premixed Theory Numerical Methods, Senkin	Proposal Due May 11 Chemkin Manual
6	M	14	Lab - ChemKin <i>Senkin</i>	
7	W	16	<i>PaSr, Full & Reduced Mechanisms</i> Lab - ChemKin	
8	F	18	PaSR, Full & Reduced Mechanisms	
	M	21	ChemKin presentations	
9	T	22	EXAM (oral)	
10	W	23	Intro to Multi-Dimensional CFD Gridding, TEACH	
11	F	25	SIMPLE, Turbulence-CFD Lab - Fluent	Proposal Due May 25 Ch. 10*
12	M	28	Memorial Day	
	W	30	Turbulence - Chemistry	11.1-3*
			Turbulence - Chemistry	11.4-8*
13	F	1-Jun	Lab - Fluent Lab - Fluent	
14	M	4	Turbulent Gaseous Combustion Presentations	
15	W	6	Particle Flow Demo - Fluent	Ch.9, Ch.12*
16	F	8	Solid Phase Reactions Lab - Fluent	3.5, 4.1, 4.2* Proposal Due June 8
17	M	11	Turbulence-chemistry w/solid reactions Turbulence-chemistry w/solid reactions	Ch. 13*
18	W	13	Radiation Lab - Fluent	Ch. 14*
	F	15	NOx Pollutant Modeling Kyle-present, Lab - Fluent, Kyle - final	Ch. 15*
19	M	18	Presentations	
20	T	19	Final Exam (Oral)	

All written assignments are due at 5 pm on the day assigned.

*Reading material covered in Smoot and Smith (1985)

Grades due June 28