

Syllabus - ChE 612 – Fall 2009 -- CLASS SCHEDULE

<u>Class Meeting Dates</u>	<u>Textbook Reading Material</u>	<u>Topics</u>
Aug. 31, Sept. 14	Review & selected topics in Chapters 1, 2, 3, 4	Review of undergraduate reaction engineering (reactor types, conversion, density / phase issues)
Sept. 21	Sections 6.4-6.7	Multiple reaction systems
Sept. 28, Oct. 5	Sections 8.1-8.6, 8.8, 9.1-9.5	Energy balance (steady and unsteady state)
Oct. 12	<i>Quiz #1</i>	
Oct. 19	<i>Quiz returned</i>	<i>Solution posted on web site</i>
	Sections 13.1-13.7	Non-ideal reactors
	<i>Term Project Assigned</i>	
Oct. 26	Sections 14.1-14.4	Non-ideal reactors
Nov. 2	Sections 14.5-14.9	Non-ideal reactors
Nov. 9	Sections 7.1-7.3	Non-elementary reactions, mechanisms, enzymes
Nov. 16	<i>Quiz #2</i>	
Nov. 23	<i>Quiz returned</i>	<i>Solution posted on web site</i>
	Sections 7.4	Bioreactions, fermentation, bioreactors
Nov. 30	Sections 4.5, 10.1-10.3, 10.7, 11.3	Heterogeneous catalysis
Dec. 7 (last lecture)	Sections 12.1, 12.2, 12.4, 12.6	Mass transfer in heterogeneous catalysis
Dec. 14	<i>Term projects due</i>	
	<i>Quiz #3</i>	<i>Solution posted on web site</i>