Introduction to Chemical Engineering **Class Schedule**
Engineering 110 **2008**

Week	Date	Topic	Assignment
1	Sept. 2	**Course introduction**	Read Chapter 1
	Tues	What is Chemical Engineering?	
		Engin110 website	
	Sept. 3	*Computer Laboratory Session*	
	Wed	Chemical engineering accounts, computer set-up, and printing	
	Sept. 4	**History of chemical engineering**	
	Thurs	Studying chemical engineering	
2	Sept. 9	**Breadth of Chemical Engineering**	Read Chapter 2.1
	Tues	**Process design**	**HW#1 due (Intro)**
		Synthesis of Ammonia	
	Sept. 10	*Computer Laboratory Session*	
	Wed	Introduction to the Internet and Microsoft Word	
	Sept. 11	**Process design**	Read Ch. 2.2 - 2.4
	Thurs	Unit operations and flow sheets	
3	Sept. 16	**Process design**	Read Ch. 2.5 - 2.8
	Tues		**HW#2 due (Design)**
	Sept. 17	*Computer Laboratory Session*	
	Wed		
	Sept. 18	**Mass balances**	Read Ch. 5.1
	Thurs	Introduction to units and dimensions	Read Ch. 3.1-3.3
		Conversions and significant figures	
4	Sept. 23	**Mass balances**	**HW#3 due (Units)**
	Tues		

	Sept. 24 Wed	*Computer Laboratory Session*	
	Sept. 25 Thurs	**Mass balances**	
5	Sept. 30 Tues	**Engineering creativity** Individual research projects Interpolative and Extrapolative Creativity Generating Ideas	Read Ch. 3.6 **HW#4 due (Mass Balances)**
	Oct. 1 Wed	*Computer Laboratory Session* Creativity exercise	
	Oct. 2 Thurs	**Engineering creativity** Introduction to physical sciences library Effective technical writing / Peer review	
6	Oct. 7 Tues	**Mathcad** Introduction	**HW#5 due (Mass Balances)**
	Oct. 8 Wed	*Computer Laboratory Session*	
	Oct. 9 Thurs	**Midterm Examination I**	
7	Oct. 14 Tues	*No Class – Monday Schedule*	
	Oct. 15 Wed	*Computer Laboratory Session*	
	Oct. 16 Thurs	**Process economics** Introduction	
8	Oct. 21 Tues	**Process economics** Learning in teams; discussion of the group project; PowerPoint	**Individual Paper Due** Read Ch. 3.14

	Oct. 22 Wed	*Computer Laboratory Session*	
	Oct. 23 Thurs	**Process economics** LeBlanc Process	
9	Oct. 28 Tues	**Microsoft Excel** Introduction Measurements and Curve Fitting	**HW#6 due (Economics)**
	Oct. 29 Wed	*Computer Laboratory Session*	
	Oct. 30 Thurs	**Microsoft Excel** Solving Mass Balances	Read Handouts
10	Nov. 4 Tues	**Mathcad** Solving Mass Balances	**HW#7 due (Mass Balances + Excel)**
	Nov. 5 Wed	*Computer Laboratory Session*	
	Nov. 6 Thurs	**Mathcad** Economic Analysis and Optimization	
11	Nov. 11 Tues	*No Class – Veteran Day*	
	Nov. 12 Wed	*Tuesday Schedule* **Chemical engineering faculty research panel**	**HW#8 due (Mass Balances + Mathcad)**
	Nov. 13 Thurs	**Midterm Examination II**	
12	Nov. 18 Tues	*No Lecture - AIChE*	
	Nov. 19 Wed	*No Laboratory - AIChE*	

	Nov. 20 Thurs	*No Lecture - AIChE*	
13	Nov. 25 Tues	**Safety** Plant case studies Laboratory safety	Read Handouts
	Nov. 26 Wed	*Computer Laboratory Session*	
	Nov. 27 Thurs	*No Class – Thanksgiving*	
14	Dec. 2 Tues	**Group Design Presentations I** ****** Also Tuesday evening from 5:30 – 7:30 ******	
	Dec. 3 Wed	*Computer Laboratory Session*	
	Dec. 4 Thurs	**Group Design Presentations II** ****** Also Thursday evening from 5:30 – 7:30 ******	
15	Dec. 9 Tues	**Engineering ethics**	Read Handouts
	Dec. 10 Wed	*Computer Laboratory Session*	
	Dec. 11 Thurs	**Course Summary**	