

## Chem 210-003 – Chemical Process Calculations I Fall 2009

Dr. Deran Hanesian  
374 Tiernan Hall  
973 - 596 - 3597

**Class Hours:**  
Tuesday 4:00 PM – 5:25 PM  
Classroom, Tiernan 107  
Friday 10:00 AM – 11:25 AM  
Classroom, Tiernan 107

### Office Hours:

Tuesday 10:00 AM – 10:40 AM  
Wednesday 12:15 PM – 12:55 PM  
Friday 1:45 - 2:25 PM

### GENERAL

The three introductory courses in the sophomore year, ChE 210 and ChE 230 and ChE 240, are the basic courses in chemical engineering fundamental principals. What you learn in these three courses will appear over and over again throughout your junior and senior courses. Therefore, it is in your best interest to learn these subjects well now. Please plan to spend a minimum of 10-15 hours on your homework problems for this course per week. Failure to meet this goal will seriously jeopardize your successful completion of this course and will harm your efforts in the junior and senior years.

### TEXTBOOK

Felder, R.M., and Rousseau, R.W.  
“Elementary Principles of Chemical Process” 3<sup>rd</sup> Edition (2005 Version)  
John Wiley and Sons, New York, New York 2001

### HOMEWORK

Homework assignments will be collected at the time of the semester Examinations. Homework assignments are the responsibility of the students. You are strongly advised to work on the homework problems because you will not learn this material unless you get into the material “Hands-on”.

### WORKSHOP

There is a workshop in conjunction with this course with another instructor. ~~Attendance is mandatory~~ and at the end of the semester, a Grade of Satisfactory (S) or Unsatisfactory (US) depending upon your performance. If you receive a

Grade of Unsatisfactory (US) you fail the course and you can not graduate until you pass the course

## EXAMINATIONS

There will be three semester examinations [1 hour and 25 minutes each] and a comprehensive final exam. A legal written excuse will be required for any examinations that are missed. There will be only **one** makeup examination, if you miss any examinations. That makeup examination is given at the end of the semester and will cover all of the semester topics. The makeup examination can only be taken by students who have missed a semester examination and have a legal excuse for missing that examination.

## ATTENDANCE

Attendance in this course is not mandatory. However, for my own information, I will stop the class and take attendance exactly 30 minutes after the start of class. Anyone not present will be considered absent. This information will not affect your grade in this course but class attendance probably will affect your grade. I need this information to respond with student questions about their final grade when the semester is finished.

## COURSE GRADING

The final course grade will be based upon the following:

Exam 1	22%
Exam 2	22 %
Exam 3	23 %
Final Exam	<u>33 %</u>
Total	100 %

## FINAL COURSE GRADE

Generally, the final grade distribution is on the following basis (approximate):

85+	A
80+ – 85	B+
75+ – 80	B
70+ – 75	C+
65+ – 70	C
55+ – 65	D
≤55	F

WEEK	TOPICS (F&R)	HOMEWORK PROBLEMS
1 8/31/09	Chapter 1-2	Assignment 1 Chapter 2: 2, 6, 11, 12, 14, 15, 21, 24, 28, 30, 40
2 9/07/09	Chapter 3	
3 9/114/09	Continue Chapter 3	Assignment 2 Chapter 3: 3, 5, 8, 13, 19, 22, 24, 31, 34, 39, 41,42,47
4 9/21/09	<b>QUIZ 1: 9/25/09</b> Chapters 1-3	<b>Assignments 1 and 2 are due</b>
5 9/28/09	Chapter 4, Sect 1-6	Assignment 3 Chapter 4: 3, 6, 7, 9, 14, 15, 16, 18, 20, 31, 32, 34, 38
6 10/5/09	Continue Chapter 4	
7 10/12/09	Continue Chapter 4	
8 10/19/09	<b>QUIZ 2: 10/16/09</b> Chapter 4, Sect 1-6	<b>Assignment 3 is due</b>
9 10/26/09	Chapter 4, Sect 7-10	Assignment 4 Chapter 4: 40, 42, 43, 49, 51, 52, 53, 56, 59, 60, 70, 71, 73, 74, 79, 80
10 11/2/09	Continue Chapter 4	
11 11/9/09	Continue Chapter 4	
12 11/16/09	Continue Chapter 4	
13 11/23/09	<b>QUIZ 3: 11/25/09</b> Chapter 4, Sect 7-10	<b>Assignment 4 is due</b>
14 11/30/09	Review	
15 12/7/09	Review	Continued Review on Reading Day, which will be December 10, 2009