

CHEM 960

ENGINEERING CHEMISTRY 1

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Fall 2009 Term 2101
CRN: 13648 (9:00-9:50)
13810 (10:00-10:50)
15218 (11:00-11:50)

Course Web Site

www.drmaleckar.com

I encourage you to visit the website often. It will contain announcements, archived quizzes with solutions, exam solutions, handouts, etc. Bookmark it!

Lectures

	MW 9:00-9:50	Benedum 621		Thursday 8:00-9:15
or	MW10:00-10:50	Benedum 621	&	Room 157
or	MW11:00-11:50	Benedum 621		Benedum

Recitations

In addition to the above lectures, you **must** attend one of these sections weekly. These sessions, led by a graduate student teaching assistant (TA), give you an opportunity to ask questions in a small group setting. A quiz will also be given most weeks – see the schedule at the end of this syllabus for the exact schedule.

You should always go to the recitation you are registered for. But, if for some reason you miss your recitation, go to another one during that week if possible. If your TA is not the TA for the makeup section, write your normal TA's name and section info on the top of the quiz. Email me if you have concerns about makeups.

NOTE: Making up a recitation should be an occasional occurrence for a small portion of the class. It should not be a regular occurrence for anyone.

Recitation Sections:

<u>Day/Time</u>	<u>Room</u>	<u>CRN</u>	
W 9:00-9:50	Chevron 206	15220	(11-12 lecture)
W 10:00-10:50	Chevron 206	15222	(11-12 lecture)
F 8:00-8:50	Chevron 135	13652	(10-11 lecture)
F 8:00-8:50	Eberly 228	13650	(10-11 lecture)
F 9:00-9:50	Chevron 135	13354	(9-10 lecture)
F 9:00-9:50	Eberly 228	35806	(9-10 lecture)
F 9:00-9:50	Eberly 209	13646	(9-10 lecture)
F 9:00-9:50	Chevron 106	13644	(9-10 lecture)
F 10:00-10:50	Eberly 209	13812	(10-11 lecture)
F 10:00-10:50	Eberly 228	13642	(10-11 lecture)

Office Hours: Because the schedule for freshman engineering students is so busy, I have a standing office hour on Thursdays from 9:15 until 11:00. This time seems to suit the majority of the schedules. Please do not hesitate to email me to schedule an appointment if this time isn't good for you.

Communication: It is essential that you let me know if you have problems in this course as it progresses. I cannot help you after the course is over. It is best for me to slow down if/when I know that there is a problem with a topic. PLEASE contact me (email or in class/after class or scheduling an appointment) if/when there is a problem or lack of understanding/communication on a topic.

Books and Materials:

Chemistry: A Molecular Approach by Tro, 1st edition

This textbook can be purchased from the bookstore bundled with a solutions manual and an online access code, which is required to complete the homework portion of the course.

Alternatively, you can purchase the online code at www.masteringchemistry.com. This code enables you to view an e-book of the textbook. Students choosing this option should know that they are expected to keep up with the required reading of the textbook.

Grades

Exams:

- 3 exams, **100** points each
- a cumulative final exam, **200** points

Quizzes:

- 10 weekly quizzes, 11 points each, given during the recitation sections
- the lowest score will be dropped, adding up to a total of 99 points.
- I will add 1 point, making 100 total quiz points.

Homework:

Homework will be complete online at www.masteringchemistry.com, using the access code that was purchased with your textbook or separately at that site. Due dates will be listed at the site.

- 12 homework assignments, 5 points each

Bonus:

There is an introductory homework assignment on Chapter 1. This will count as bonus. Bonus problems may also be included on the exams. Any bonus points earned during the term will be added to your total score. Any additional bonus points will be at the instructor's discretion.

Overall Grade:

Exams 1, 2, & 3	300 pts
Final Exam	200 pts
Quizzes	100 pts
Homework	60 pts

Total	660 points
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Grading

Your total points will be added up at the end of the term. I will calculate the class average and fix that at 75%, adding or subtracting points in order to do so. The resulting scores will then be applied to a strict 97/93/90/87/83/80.....etc scale.

Do not rely on a curve in this class. Often the curve is small. Any curve that does exist is at my discretion and will not be determined until the end of term.

Exam Regrade Policy

If you feel that your exam was not graded fairly, you may request a re-grade. To do so, you must submit your exam with your dispute, **in writing**, within two class days of getting your exam back. Your dispute must explain which question you feel was incorrectly graded and an explanation of why you deserve more credit. Note: I reserve the right to re-grade the entire exam when it is handed in for a re-grade. Do not expect to request an exam regrade once the term has ended. Do not bring an exam to me long after the exam was taken.

WARNING: I will be copying a portion of the exams before handing them back to students. If you change your answers after you get your exams back and then submit them for a re-grade, you risk being caught in violation of the academic integrity guidelines. The consequences for this are severe.

Makeup Policy

THERE ARE NO MAKEUP EXAMS. If you have extreme circumstances, see me ASAP. If you suddenly have reason to miss an exam (extreme sickness, death, etc), you are responsible for contacting me as soon as humanly possible.

Note: Sleeping in **IS NOT** an acceptable reason for a makeup.

Academic Integrity

All of us are expected to follow the University of Pittsburgh's academic integrity guidelines. They can be obtained from the CAS Dean's Office or at www.fcas.pitt.edu, the undergraduate studies site. Violations of these guidelines can result in zero points for an exam or failure for the course.

Disabilities

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Resourced and Services, 216 William Pitt Union, 412-648-7890 as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

Study Tips

- DO YOUR HOMEWORK PROBLEMS!!!! Many of the exam questions will be based on the problems, so it is in your best interest to do them. Do extra problems, online or from the book, if necessary.
- Come to class and take good notes, come to recitation sessions ready with questions.
- Don't get behind in class
- Work on this class often. Study your notes every day
- Don't wait for an exam to study.
- Treat every quiz like a mini exam on a chapter – focus on each one as it comes.
- Use the archived blank quizzes & solutions from the website to study for the exams.

If you find yourself struggling:

- Come to my office hours or make an appointment to talk to me.
- DO THE HOMEWORK!!!!!! It really will help you to answer the exam questions.
- Don't be afraid to ask basic questions and make sure you truly understand the whys and hows of things.
- Get a private tutor. A list of available tutors is in room 107 Chevron – see the secretary in room 107 Chevron.

LECTURE SCHEDULE

Week	Dates	Chapter	Topic	Notes
1	8/31, 9/2, 9/3	1/2	Atoms, and Elements	
2	9/9, 9/10	3	Molecules, Compounds, and Equations	no class 9/7 (Labor Day)
3	9/14, 9/16, 9/17	4	Quantities and Aq. Reactions	
4	9/21, 9/23, 9/24	7	Quantum Mech Model of Atoms	
5	9/28, 9/30	8	Periodic Properties of the Elements	
5	Oct 1	Exam 1	Chapters 1, 2, 3, 4, 7	
6	10/5, 10/7, 10/8	9	Chemical Bonding – Lewis Theory	
7	10/13, 10/14, 10/15	10	Chemical Bonding II	class on 10/12 is moved to 10/13 (Fall Break)
8	10/19, 10/21	20	Organic Chemistry	
8	Oct 22	Exam 2	Chapters 8, 9, 10	
9	10/26, 10/28, 10/29	20	Organic Chemistry (cont)	
10	11/2, 11/4, 11/5	24	Coordination Compounds	
11	11/9, 11/11, 11/12	24/5	Gases	
12	11/16, 11/18	5	Gases	
12	Nov 19	Exam 3	Chapters 20, 24, 5	
13	11/23	11	Intermolecular Forces	No class 11/25, 11/26 - Thanksgiving
14	11/30, 12/2, 12/3	11	Intermolecular Forces	
15	12/7, 12/9, 12/10		Polymers	
16	Thurs, Dec 17		FINAL EXAM 8:00-9:50AM	ROOM TBA

RECITATION**SCHEDULE**

Week	Dates	Quiz	Quiz Topic
1	9/2, 9/4	none	Attend recitation/meet & greet
2	9/9, 9/11	1	Chapters 1 & 2
3	9/16, 9/18	2	Chapter 3
4	9/23, 9/25	3	Chapter 4
5	9/30, 10/2		No Quiz/No Recitation
6	10/7, 10/9	4	Chapter 8
7	10/14, 10/16	5	Chapter 9
8	10/21, 10/23		No Quiz/No Recitation
9	10/28, 10/30	6	Chapter 20 part 1
10	11/4, 11/6	7	Chapter 20 part 2
11	11/11, 11/13	8	Chapter 24
12	11/18, 11/20	9	Chapter 5
13/14	11/25, 11/27, 12/2, 12/4		No Quizzes, No Recitations
15	12/9, 12/11	10	Chapter 11

