

Chemistry 139

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Office hour: by appointment
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Course meeting times: MTWTh, 10:50 - 12:20 in AS 1614.

Text: *Introductory Chemistry* by Peters and Cracolice, 3rd ed.

Other required materials:

- Scientific calculator (strongly recommended, especially for exams)

This is a college chemistry preparatory class for science and engineering majors who intend to take the three quarter sequence of general chemistry. It is a chemistry skills class and is not intended to be a complete course in chemistry. **This is not a lab course.**

Content: This course will cover the following chapters in this order: **1, 2, 3, 5, 11, 12, 13, 6, 7, 8, 9, 10, 15, 3, 16, 19.** In order to do this the pace will be about two chapters per week (this is summer quarter!). Don't panic yet, some of the chapters are very short and a lot of them overlap. Topics covered include: matter and energy, measurement and calculations, atomic theory, nomenclature, reactions, stoichiometry, bonding, molecular shapes, solutions, net ionic equations, and redox reactions.

Grading:	Exams 4 at 100 pts each	400
	Activities 12 (drop 1) at 20 pts each	220
	Homework 13 at 20 pts each	260
	<hr/> Total	880 pts

Grades will be assigned as follows:

4.0 95% 3.0 85% 2.0 75% 1.0 65%

A 1% drop corresponds to a 0.1 drop in grade. The lowest passing grade is 0.7 at 62%. The grade 0.0 will be assigned to all lower percents.

Homework: all problems will have answers in the back of the unit for self-check. No credit on assignments more than a week late. No assignments will be accepted after 12:20 on August 20.

Activities: These are collaborative assignments for 3 to 4 students, downloaded from my website. In the interest of saving some class time, work them out before the collaboration date, when you will compare your answers and come to agreement on the answers your group will turn in. Submit your answers on the form, showing work. Activities are due the day after collaboration, but may be turned in later, as long as I receive it before the graded assignment is returned. Students who miss class on an activity day may do the assignment individually, with the same stipulation about turning it in. The lowest activity will be dropped.

Exams: The exams are 50 minutes long. These items represent individual learning, so no collaboration is allowed. Sharing of books, notes, calculators or other materials are **not** allowed during exams.

Cheating: Don't. Cheaters earn a zero for the assignment. It also means I would be unable to write a favorable recommendation letter for you in the future.

Attendance: I will take not take attendance, but it is imperative that you come to each meeting. If you miss class, contact a reliable fellow student to determine what you've missed.

Preparing for class: Obviously you would not be able to do this the first day, but for the rest of the quarter, you should read the appropriate material in the text before lecture. The text is great for beginning students. There are a lot of step-by-step examples to help build your skills and your confidence. In lecture I may skip over some points, assuming you picked them up while reading. You are responsible for all material in the chapters we cover unless I specifically tell you otherwise. I will also be including some material that is not in the text.

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact Disability Services as soon as possible to ensure that such accommodations are implemented in a timely fashion. You may make an appointment with Disability Services by calling 527-3697 or stopping by the DS office on the 2nd floor of the Campus Center.

Chemical sensitivities: Due to the increasing numbers of individuals developing chemical sensitivities and the increasing awareness of such conditions, everyone who attends this class is asked to refrain from wearing any fragrance or perfume. The greatest feasible efforts will also be taken to ensure a fresh air environment free of not only the above-mentioned fragrances but also potentially harmful substances such as carbon monoxide, formaldehyde, carpet odor, organic solvents, etc. Individuals who are unsure of the importance of this policy should see the Associate Dean for additional information.

Electronic devices: These have become a problem in the classroom recently. The ringing or beeping of such devices disrupts class, particularly during exams. Show respect for your fellow students and your instructor by turning them off when in class.

Dates to remember:

Last day to withdraw without a W	July 9
Last day to drop course	Aug. 7
Last day of instruction	Aug. 20

HOMEWORK ASSIGNMENTS

Due Date	#	Chapter Exercises
7/1	1	Ch.2 1-43 (odd), 47-61(odd), 65, 69-71(all), 73, 75, 76
7/6	2	Ch.3 1, 3, 9, 11, 15, 17, 35, 37, 41, 43, 45, 49, 59, 71, 85, 87, 89, 91, 98
7/9	3	Ch.5 1-21 (odd), 25-29 (odd), 35-41 (odd), 45, 52, 54
7/14	4	Ch.11 1-5 (odd), 9-27 (odd), 31-61 (odd), 65-81 (odd), 85-89 (odd), 93, 95, 103, 104-108 (even)
7/16	5	Ch.12 1-5 (odd), 9-39 (odd), 43, 45, 47-52 (all), 54, 57, 59, 61
7/21	6	Ch.13 1-53 (odd), 69, 70, 72, 74, 76, 77
7/23	7	Ch.6 1-79 (odd)
7/29	8	Ch.7 1-5 (odd), 7abc, 9-21 (odd), 25, 29, 33-41 (odd), 45, 49, 53-63 (odd), 67, 69, 72, 73
8/3	9	Ch.8 1a,3-65 (odd), 71-76 (all), 78
8/6	10	Ch.9 3-17 (odd), 19,25, 29, 39, 45-77 (odd)
8/11	11	Ch.10 1-11 (odd), 27-35 (odd), 41-47 (odd), 57-65 (odd), 71, 73
8/17	12	Ch.16 5, 9, 11, 25, 27, 33-41 (odd), 45, 47, 53, 83, 85, 91, 97-103 (odd), 141, 145, 146, 148
8/20	13	Ch.19 5-39 (odd), 43-51 (odd), 56, 61, 62

COURSE CALENDAR

June 29	30	July 1 HW 1	2	3 Independence Day Holiday
6 HW 2	7	8	9 HW 3	10
13	14 Exam 1 HW 4	15	16 HW 5	17
20	21 HW 6	22	23 HW 7	24
27	28	29 Exam 2 HW 8	30	31
August 3 HW 9	4	5	6 Exam 3 HW 10	7
10	11 HW 11	12	13	14
17 HW 12	18	19	20 Exam 4 HW 13	21