

GENERAL CHEMISTRY
CHEM 1010
AUTUMN, 2008

Instructor: Dr. Mansy
SGM 251
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Text: Chemistry, 5th Edition, Silberberg

Lecture: 9-9:50 am, MWF, Olin 105
Discussion: 9-9:50 am, T, Olin 105
Help Session: 9-9:50 am, R, Olin 105

Exams: There are 3 1 h midterm exams during the quarter, plus a 2 h cumulative final exam. Each exam is worth 100 points. Exam questions will be similar to the problems assigned as homework and problems worked in class.

If you miss a 1 hour midterm exam, then your final exam will be counted twice and replace the missed midterm exam. With one exception, **THERE WILL BE NO MAKEUP EXAMS**. The only exception to the no-makeup policy will be for members of a university team or group, e.g. athletic team or music group scheduled to be away from campus at the time of the exam. You must inform your instructor of this prior to the exam and make arrangements at that time for a makeup exam.

If you take all 3 midterm exams and your grade on the final exam is better than one of your midterm exam grades, then your final exam will be counted twice and replace your lowest midterm exam grade.

There are 10 quizzes that will be administered during discussion periods. Your top 8 scores will count towards your grade, i.e. your 2 lowest quiz grades will be dropped. Homework problems will be assigned during lecture and will be collected. Points will be given for completing the assignment on time without grading the homework problems.

Grading:	midterm exams	300 points
	final exam	100 points
	quizzes	80 points
	homework	20 points

The assignment of a letter grade to a given numerical grade will depend on the overall class performance. However, if everybody does well, grades will not be curved down. **Also, note that points will be deducted from your final grade for disruptive behavior.**

DATE	TOPIC	READING
WEEK 1		
Sep 8	Intro. to class	Ch1-3
9	No Discussion, quiz	
10	Nature of light	Ch7.1-7.2
11	No help session	
12	Wave-Particle/Quantum-Mechanical, quiz	Ch7.3-7.4
WEEK 2		
Sep 15	Periodic table	Ch8.1-8.2
16	Discussion, quiz	
17	Atomic properties	Ch8.3-8.4
18	optional help session	
19	Chemical reactivity	Ch8.5
WEEK 3		
Sep 22	Chemical Bonds	Ch9.1-9.2
23	Discussion, quiz	
24	Covalent bond	Ch9.3-9.6
25	optional help session	
26	EXAM 1	
WEEK 4		
Sep 29	Lewis structures	Ch10.1
30	Discussion, quiz	
Oct 1	VSEPR	Ch10.2
2	optional help session	
3	Shape & polarity	Ch10.3
WEEK 5		
Oct 6	Valence bond theory	Ch11.1-11.2
7	Discussion, quiz	
8	Molecular orbital theory	Ch11.3
9	optional help session	
10	Water as a solvent	Ch4.1-4.2
WEEK 6		
Oct 13	Precipitation reactions	Ch4.3-4.4
14	Discussion, quiz	
15	EXAM 2	
16	no help session	
17	Oxidation-reduction reactions	Ch4.5-4.6
WEEK 7		
Oct 20	Acids and bases in water	Ch18.1-18.2
21	Discussion, quiz	

	22	Bronsted-Lowry	Ch18.3-18.4
	23	optional help session	
	24	Weak bases/weak acids	Ch18.5
WEEK 8			
Oct	27	Redox Reactions	Ch21.1
	28	Discussion, quiz	
	29	Voltaic cells	Ch21.2-21.3
	30	optional help session	
	31	Forms of energy	Ch6.1-6.2
WEEK 9			
Nov	3	Calorimetry	Ch6.3-6.4
	4	Discussion, quiz	
	5	Hess's Law	Ch6.5-6.6
	6	optional help session	
	7	EXAM 3	
WEEK 10			
Nov	10	Entropy	Ch20.1
	11	Discussion, quiz	
	12	Calculating entropy change	Ch20.2
	13	optional help session	
	14	bioinorganic chemistry	
Nov	19	Final Exam, 10:00 am - 11:50 am, W, Olin Hall 105	