GENERAL CHEMISTRY
CHEM 1010
Autumn, 2004

Instructor: Dr. Sheldon S. York
S. G. Mudd Building, Room 253
Phone 303-871-2990

Text: Chemistry, 3rd Edition, Silberberg, 2003, McGraw-Hill

Lectures: 9-9:50 a.m., MWF, Olin 205

Discussion: 9-9:50 a.m., Th, Olin 205

Help Sessions: 9-9:50 a.m., T, Olin 205

Exams: There are three one-hour exams during the quarter, plus a two-hour cumulative final exam. Each exam counts 200 points. Exam problems will be similar to the problems assigned as homework and the problems worked in class.

If you miss an hour exam, then your final exam will be counted twice and replace the missed hour 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 three hour exams and your grade on the final exam is better than an hour exam grade, **then your final exam will be counted twice and replace your lowest hour exam grade.**

Discussion: Discussion is an additional class meeting each week. It gives you an extra opportunity to ask questions about homework and the lectures. Each Discussion will include a ten minute quiz, except during the weeks immediately following the hour exams. The four best quizzes will count towards an overall discussion grade.

Help Sessions: Students who have not had chemistry in high school, or who are having difficulty in the course, are strongly encouraged to come to the help sessions. There you will have the opportunity to develop essential skills in an informal setting with a smaller group of students.

Homework: Each lecture has a group of homework problems assigned to it. The problems are taken from the Problems section at the end of each chapter, and are chosen to prepare you for the hour exams. If you understand and can do all the homework, you probably will do well on the exams. There are many additional problems at the end of each chapter, grouped according to subject area. It is a good idea to work some of these extra problems in the areas where you are

LECTURE AND HOMEWORK SCHEDULE

DATE	TOPIC	READING	HOMEWORK
Sep 13	Introduction to the Course		
14	No Help Session this Week		
15	The Nature of Light	7.1	8, 9, 10, 16
16	Discussion, No Quiz		
17	Atomic Spectra, Wave-Particle Duality	7.2-7.3	23, 27, 30, 32
20	Quantum-Mechanical Model	7.4	49, 54, 56, 57
21	Help Session		
22	Many-Electron Atoms	8.1-8.2	9, 10, 11, 14
23	Discussion, Quiz		
24	Periodic Table	8.3	25, 31, 34, 42
27	Atomic Properties	8.4	53, 54, 55, 56
28	Help Session		
29	Chemical Reactivity	8.5	74, 83, 84, 87
30	Discussion, Quiz		
Oct 1	**HOUR EXAM I** (Covers Sep. 13 - 29)		
4	Ionic Bonding	9.1-9.2	13, 20, 26, 29
5	Help Session		
6	Covalent Bonding	9.3	34, 38, 39, 40
7	Discussion, No Quiz		
8	Bond Polarity	9.4	48, 53, 57, 58
11	Lewis Structures	10.1	7, 8, 16, 17
12	Help Session		
13	Heats of Reaction	10.2	21, 22, 30, 33
14	Discussion, Quiz		
15	VSEPR Theory	10.3	43, 46, 47, 48
18	Molecular Polarity	10.4	49, 50, 65, 66
19	Help Session		
20	Valence Bond Theory	11.1	7, 8, 12, 13
21	Discussion, Quiz		
22	**HOUR EXAM II** (Covers Oct. 4 - 20)		
	Last day for Automatic Withdraw		