

GENERAL CHEMISTRY 1010

Summer 2008

Instructor: Dr. Ronald Nohr

Email Address: rnohr@du.edu

Office: 307 Physics Bldg.

Office Hours: 8:00 to 9:00 A..M. in the classroom everyday

Text: Chemistry, 5th Edition, Silberberg, 2009, McGraw-Hill

Lecture: 9:10 – 11:20 M,T,W,Th,F, June 16 – July 3

Examinations: There will be three (3) one hour tests, each counting 200 points. Test questions will be similar to practice test questions, questions at the end of the chapters and problems worked in class. There will be no make-up exams.

Homework: Homework will not be collected. If you understand and can do the homework, you probably will do well on the tests.

Final Grade: Hour Tests (200 points each): 600 points

There will be no comprehensive final. The third hour test will be given on the last day, July 3rd and will cover the material from Test II. The assignment of a final grade depends on your performance on the three one-hour tests and will not be fitted to a statistical bell-shaped normal distribution curve.

LECTURE AND HOMEWORK SCHEDULE

<u>DATE</u>	<u>TOPIC</u>	<u>READING</u>	<u>HOMEWORK</u>
June 16	Intro. To Class Nature of Light Atomic Spectra Bohr Model of Atom	Ch. 7 7.1 to 7.4	7.1, 7.8, 7.9, 7.10, 7.11 7.20
June 17	Quantum Mechanical Model	Ch.7 7.4	7.48, 7.49, 7.55, 7.57, 7.59 7.75
June 18	Electron Configuration and Chemical Periodicity	Ch. 8 8.1 to 8.4	8.9, 8.10, 8.11, 8.14, 8.25 8.31, 8.34, 8.42
June 19	Periodic Table and Atomic Properties, Chemical Reactivity	Ch. 8 8.5 Review	8.53, 8.54, 8.55, 8.56, 8.74, 8.83, 8.84, 8.87
June 20	Review Ch. 7 and 8 Start Ch. 9 (Ionic and Covalent Bonding)	Ch. 9.1 to 9.4	9.13, 9.20, 9.26, 9.34, 9.39
June 23	Electronegativity and Bond and Bond Polarity	Ch. 9.5 to 9.6	9.48, 9.49, 9.57, 9.62
June 24	<u>TEST I</u> (Ch. 7,8,9) Lewis Structures	Ch. 10.1	10.9, 10.66, 10.67
June 25	Lewis Structures, VSEPR Theory, Molecular Polarity	Ch. 10.1 to 10.3	10.16, 10.21, 10.34, 10.37, 10.38, 10.39
June 26	Valence Bond Theory and Molecular Orbital Theory	Ch. 11.1 to 11.3	11.7, 11.8, 11.12, 11.33, 11 35, 11.36
June 27	Review Ch.10 and Ch. 11 Start Ch. 4	Ch. 4.1 to 4.4	4.16, 4.30, 4.35
June 30	<u>TEST II</u> (Ch. 10, 11), Water, Acid-Base Rxn.s	Ch. 4.1 to 4.4	4.32, 4.36, 4.49
July 1 – 2	Oxidation – Reduction Rxn.s	Ch. 4.5 to 4.6	4.67, 4.70, 4.71, 4.76
July 3	Review Ch. 4, <u>TEST III</u>		