

Loyola University Chicago

Syllabus

General Chemistry A CHM 101 Sec. 015; Discussion 016

Fall 2008

Lecture: T, R: 06:30 PM - 07:45 PM **Discussion:** R: 08:00PM – 08:50 PM Flanner Hall 133

Instructor: Donald May Contact: dmay4@luc.edu

Office: Flanner Hall 403 Hours: M, R 05:00 PM – 06:00 PM

Textbook: Chemistry and Chemical Reactivity, Kotz/Treichel/Weaver, 6th ed., 2008.
ISBN 0-495-45189-4

Study Guide and Solutions Manual

Method of instruction: Lecture and discussion.

Grading: Semester grades will be determined by the following criteria: 3 in-class exams and a comprehensive final exam (topics will be announced). See attached schedule. No early and no make-up in-class exams. For a single missed in-class exam the final exam will be utilized to determine a larger percentage of the course grade. Any subsequent missed in-class exams will be scored as zero. The student must have a valid and verifiable reason for missing the final exam, such as an extreme emergency, serious illness requiring hospitalization, and so forth. Oversleeping, not knowing the date and time of the final exam or not being prepared and so forth, are not valid reasons. If a verifiable and valid reason cannot be provided a zero score for the final exam will be recorded.

Final course grade: Generally the lowest A is 90%, the lowest B is 78%, the lowest C is 68%, the lowest D is 58%. Grades assigned will be: A, A-, B+, B, B-, C+, C, C-, D+, D, F

Student Conduct: At all times students are expected to conduct themselves in a mature and professional manner, which includes but is not limited to: arriving on time and prepared, treating everyone in class with respect, avoidance of extraneous comments, talking and small group discussions during lecture. Eating, drinking (food items) are not allowed. The student is responsible for taking care of all personal matters before class. Additionally radios, headphones, cell-phones, PDA's, mp3 players or similar devices must be in silent mode during lectures and are not permitted during exams. Disruptive and noncompliant students will be asked to leave. If a cell phone rings (beeps, buzz, etc.) during any exam, the exam will be collected and the student will not be allowed to continue. Suggested textbook homework problems will be given but the student will not be required to turn them in. Exam questions, however, will come predominantly from lecture notes and from concepts related to suggested homework problems. It is recommended that the student read through each chapter before lecture and eventually work through the suggested problems. Students must utilize their own calculator for exams: cell phone calculators are not allowed.

Academic Integrity: Consult the Undergraduate Studies Handbook for additional information. All exams are closed book and closed note. During exams violations include but are not limited to: cell phone ringing, opening a book-bag or back-pack during an exam, using unauthorized notes or books, looking at another student's exam, talking to another student, taking a copy of the exam from the room and so forth. Students caught cheating will receive an automatic "F" for the course and will not be allowed to drop the course. Further actions will also result. The student must bring their Loyola I.D. for each exam. Students are not allowed to leave the room during exams until their exam is turned in for grading. If you leave, you must turn in your exam and you will be considered finished. Please keep noises and sounds to a minimum. When leaving, be respectful and leave quietly.

Lecture Outline (tentative, subject to change)

Week	Date	Chapter	Topic	*
1	08/26	01	Matter, Units, Measurements	
	08/28	01	Conversions, Significant Figures	
2	09/02	02	Atoms, The Mole	
	09/04	02	Periodic Table	
3	09/09	03	Molecules, Polyatomic Ions	
	09/11	03	Compounds, Formulas	
4	09/16		EXAM I Chapters 1-3	
	09/18	04	Equations	
5	09/23	04	Stoichiometry, Limiting reagents, Yields	
	09/25	04, 05	Aqueous solutions, Solubility	
6	09/30	05	Net Ionic Equations, Concentrations,	
	10/02	05, 06	Molarity and Stoichiometry	
7	10/07		NO CLASS Midterm Break	
	10/09	06	Thermodynamics, Heat Transfer	
8	10/14	06, 07	Hess' Law, Enthalpy, Electromagnetic radiation	
	10/16		EXAM II Chapters 4-6	
9	10/21	07	The Hydrogen Atom, Atomic Orbitals	
	10/23	08	Atoms and Electronic Configurations.	
10	10/28	08	Periodic Trends	
	10/30	08, 09	Lewis Structures, Molecular Shapes	
	10/31		Last day to withdraw with a "W" otherwise "WF" (Halloween)	
11	11/04	09	Valence Electrons, Covalent Bonding	
	11/07	09, 10	Bond Polarity, Bond Properties	
12	11/11		EXAM III Chapters 7-9	
	11/13	10,12	Bonding Theory, Hybridization, Gas Laws	
13	11/18			
	11/20	12	Ideal Gases, Kinetic Molecular Theory	
14	11/25	13	Intermolecular Forces, Liquids	
	11/27		NO CLASS Thanksgiving Break	
15	12/02	13	Solids, Phase Diagrams	
	12/04			
16	12/09		FINAL EXAM 07:00 PM	