

Syllabus for Chemistry 101

11:30 – 12:20 MWF

Loyola University: Fall 2010

Instructor: Dr. Conrad Naleway ; Office FH 103
Office Hours: MW 12:30-1:30am MWF and by Appointment

Meeting Times; Days & Rooms

Lecture: 11:30-12:20, MWF in FH 133

Discussion & Quizzes:

1140	CHEM	101	005	DIS	2:45PM	3:35PM	Fri	FH	105
1144	CHEM	101	006	DIS	1:40PM	2:30PM	Fri	FH	105

Review Sessions: There will be weekly optional review sessions typically on Sundays and *additional* review sessions prior to each exam. *Dates to-be coordinated during class.*

Materials:

Text: Chemistry and Chemical Reactivity, Seventh Edition (2009) by Kotz, Treichel, and Townsend. Please note that the text is a secondary source of information to help clarify concepts presented in lecture. **The primary information is presented in class and also appears on website and lecture handout materials.**

Calculators will be needed for homework assignments and exams but do not need to be programmable, but should have log/trig functions (typically under \$20). Use of any electronic or mechanical communication device during examination is considered academic dishonesty and will result in immediate failure of the class (see details below)

Website: conradnaleway.net/chem101 (also found on LUC blackboard)

Exams:

There will be three 50 minute exams scheduled during the lecture periods and a cumulative final exam. All exams will consist of questions and problems representative of the lecture and text material. All answers to test problems must contain detail information illustrating the steps and method of solution. Answers must contain correct units since this is an essential aspect of the course.

All exams must be signed in the front, upper right hand corner. This signature will be taken as a statement of honest and completely independent work. Instances of academic dishonesty will warrant **immediate failure** of the course plus referral to the Dean's office. For more information on university policy, please read: http://www.luc.edu/cas/pdfs/CAS_Academic_Integrity_Statement_December_07.pdf

Exams will be graded and returned as soon as possible, usually the next class period. ALL grading questions, points of clarification and grading errors must be brought to the instructor's attention during office hours **no later than one week after exam is returned**. There will be no exceptions to this rule! Each returned exam must be copied with original being returned to instructor with a hand written note stapled to exam addressing concern(s). *Only exams completed in INK are eligible for possible regrading.*

Exam Grade will be assigned according to the highest percentage computed by the two methods:

- a) The average of the three 50 minute class exams, each weighing 1/3, plus completion of the final exam even though not included in grade. **Please note that attendance and completion of the final exam are mandatory and a grade of at least 50% MUST be achieved!**
- b) The average of the top two 50 minute class exams plus the cumulative final. Thus the exams will weigh 1/3 each and the final will weigh 1/3. This relates to dropping the lowest in-class exam.

NOTE: Grade is NOT based upon a class curve. Thus individual performance determines one's grade and is not influenced by other's performance. This thus encourages each student to work collectively to help each other learn. Often discussing and working through a problem with someone else, helps one more than the other person, since it forces one to more critically see through a problem. Tutorial help is also available at the Tutoring Center, www.luc.edu/tutoring

Homework Problem Sets: Several sets of problems will be assigned during the semester, roughly one each week. These assignments will largely utilize the **OWL** homework system which is discussed in detailed in the first few pages of the text (10%)

Quizzes: Several quizzes (roughly one per discussion period) will be given during the discussion periods (10%)

Final Grade will be based upon:

- 80% Exam Grade (Above)
- 10% Discussion Quizzes and Participation, and
- 10% Homework (OWL)

Assignment of Final Grade:

A	100% - 90%
B	89% - 78%
C	77% - 60%
D	59% - 50%
F	<50 %

TENTATIVE Schedule for Chemistry 101 (11:30-12:20 Fall 2010)

Chapter	Topic	Pages	Class #	Tentative Class Dates
1	Basic Concepts of Chemistry	1-23	1,2	8/30,9/1
	Review of Tools of Qualitative Chemistry	24-49	3,4,5	9/3,9/8,9/10
2	Atoms, Molecules, and Ions	50-95	6,7	9/13, 9/15
3	Chemical Reactions	112-157	8,9,10	9/17,9/20,9/22
	EXAM 1		11	Friday, Sept 24
4	Stoichiometry	158-207	12,13,14	9/27,9/29,10/1
5	Principles of Reactivity	208-253	15,16,17	10/4,10/6, 10/8
	FALL BREAK			
6	Structure of Atoms	268-303	18,19,20,21	10/13,10/15,10/18,10/20
7	Structure of Atoms and Periodic Trends	304-347	22,23,24	10/22,10/25,10/27
	EXAM 2		25	Friday, Oct 29
8	Bonding and Molecular Structure	348-403	26,27,28,29	11/1,11/3,11/5,11/8
9	Orbital Hybridization	404-441	30,31,32,33	11/10,11/12,11/15,11/17
	EXAM 3		35	Monday, Nov 22
11	Gases and Properties	514-553	34,36,37,38	11/19,11/29,12/1,12/3
12,13	Intermolecular Forces, Liquids, and Solids	554-615	39,40,41	12/6,12/8,12/10
	FINAL EXAM			Monday Dec 13th