

# Syllabus for Chemistry 101

## 8:30 - 9:45 am

### Loyola University: Fall 2012

**Instructor:** Dr. Conrad Naleway; Office FH 200C  
Office Hours: TTh (3:00-4:00pm) and by Appointment

#### Meeting Times; Days & Rooms

Lecture: 8:30-9:45pm, TTh in FH 133  
Discussion & Quizzes: Monday Mornings

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

#### Materials:

**Text:** Chemistry 12th Edition: Theodore E Brown, H Eugene LeMay, H Eugene LeMay, Bruce E Bursten, Catherine Murphy, Patrick Woodward (Prentice Hall) 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](http://conradnaleway.net/chem101)

#### Exams:

There will be three 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](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:

- 1) The average of the three 75 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!
- 2) The average of the top two 75 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.

**Preassignment MasteringChemistry Homework** will represent 10%

#### Discussions (5%) and Quizzes (EC 2%)

Attendance and Active Participation at all Discussion Sections will warrant 5% of total grade. Multiple quizzes will be given during random discussion periods throughout the semester. Performance on each of these quizzes will warrant a maximum of two point of extra credit applied to the next up-coming exam.

**Final Grade** will be based upon:

- 75% Exam Grade (Above)
- 10% Homework (Largely Mastering Chemistry assignments)
- 5% Discussion Participation

AND a FLOATING 10% of GRADE will be assigned to either Exam grade (above) OR Homework whichever has the highest-grade value.

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**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 should encourage 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](http://www.luc.edu/tutoring)

#### Assignment of Final Grade:

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

## TENTATIVE Schedule for Chemistry 101 (8:30-9:45pm - Fall 2012)

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