

Syllabus for Chemistry 101-022

7:00 – 8:15 pm Tu&Th Loyola University: Fall 2016

Instructor: Dr. Conrad Naleway; Office FH 200C
Office Hours: 5:30-6:30 pm TTH or by appointment (MWF)

Meeting Times; Days & Rooms:

Lecture: 7:00-8:15 pm, TTh in Flanner Hall Auditorium FH-133
Discussion & Quizzes: Following Lectures

Materials:

Text: Chemistry 13th Edition: Theodore E Brown, et. al. (Prentice Hall) and **MasteringChemistry access code is required.** 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 *materials may also be posted on Sakai (sakai.luc.edu)*

Exams: Midterms: Th 9/22; Th 10/27 and Th 11/17 **Final:** Tuesday 12/13, 7-9pm

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 detailed 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 (60%)

Will be assigned according to the highest percentage computed by the two methods:

- 1) All three midterms plus the cumulative final are averaged. Thus each exam will weigh $\frac{1}{4}$ (15% each)
- 2) The top two midterm exams weigh $\frac{1}{4}$ (15%) each, and the final exam will weigh $\frac{1}{2}$ (30%). This equates to the final exam score replacing the lowest midterm score.

Preassignment MasteringChemistry Homework (20%)

Grading settings for MasteringChemistry are visible within each assignment. Use each assignment to prepare for the upcoming lecture. Each assignment is weighted equally in the overall homework grade. Typically due twice per week online at masteringchemistry.com
MC Section ID = MCNALEWAYCHEM101FALL2016 (MC_Naleway_Chem101_Fall2016)

Group Problem Set during Discussion (20%)

A Discussion Problem set will be distributed during each discussion class. Each problem set will cover material from the previous lectures. No make-up problem set will be given - any individual missing discussion is scored as a zero.

Final Course Grade will be based upon:

60% Exam Grade (2 options, see above)

20% Homework (MasteringChemistry pre-assignments)

20% Discussion Problem Set/Quizzes

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

Assignment of Final Grade:

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

NOTE: The cutoffs for plus and minus grades (for example, between A and A-) will fall within the percentage ranges listed above. These cutoffs will be determined at the end of the semester.

Other Points:

- Students are encouraged to seek help with the course material early and often during the semester. Attend office hours regularly for assistance before any deficiencies become serious!
- Information regarding disability services: www.luc.edu/sswd
- Loyola Official Academic Calendar: www.luc.edu/academics/schedules
- A student missing the appropriate course prerequisites may be withdrawn at any time. The Withdraw deadline for the semester is Friday November 4th. Students wanting to drop lecture after midterm may stay in the co-requisite Chem 111 lab only if midterm grade, posted in LOCUS, is a D or better. No exceptions. Students should continue to attend lecture until the week of the drop date to gain as much background knowledge as possible. Students can seek assistance from the Department office (Flanner 125) beginning Monday 10/31 at 9:00am through Friday 11/4 at 4:00pm.

TENTATIVE Schedule for Chemistry 101 (7:00-8:15pm - Fall 2016)

Chapter	Topic	Pages	Class #	Tentative Class Dates
1	Matter and Measurement	2	1,2	8/30, 9/1
1	(continued)	14	3	9/6
2	Atoms, Molecules, and Ions	40	4,5	9/8, 9,13
3	Stoichiometry and Chemical Reactions	80	6,7	9/15, 9/20
	EXAM 1		8	Thursday Sept 22
4	Reactions in Aqueous Solutions	122	9,10	9/27, 9/29
5	Thermochemistry	164	11,12	10/4, 10/6
	FALL BREAK			10/10(M)-10/11(T)
6	Electronic Structure of Atoms	212	13,14	10/13, 10/18
7	Periodic Properties of Elements	256	15,16	10/20, 10/25
	EXAM 2		17	Thursday, Oct 27
8	Basis Concepts of Chemical Bonding	298	18,19,20	11/1, 11/3, 11/8
9	Molecular Bonding & Bonding Theory (VSEPR & Hybridization)	342	21,22	11/10,11/15
	EXAM 3		23	Thursday, Nov 17
11	Properties of Gases	398	24,25	11/22
	Thanksgiving Break			10/23-10/26
11	Gases (continued)			10/29, 12/1
12,13	Liquids & Intermolecular Forces	442	26,27,28	12/6, 12/8
	FINAL EXAM			Tuesday Dec 13 ^h (7pm)

