

Syllabus for Chemistry 101 10:25 am MWF Loyola University: Fall 2018

Instructor: Dr. Conrad Naleway; Office FH 200C Office Hours: MF 9-10am

Meeting Times; Days & Rooms:

Lecture: 10:25-11:15am MWF in Life Science Building LSB-142
Discussion & Quizzes: Friday 11:30am (FH007), 12:35pm(FH007), and 1:40pm (FH007)

Materials:

Text: Chemistry 14th 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. **ID= NALEWAYCHEM101FALL2018**

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: F: [9/21] F: [10/26] F: [11/16] Final: Friday 12/10 9:00-11:00 am

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/advising/academicintegritystatement/>

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 re-grading.*

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 1/4.
- 2) The top two mid-term exams weigh 1/4 each, and the final exam will weigh 1/2. This equates to the final exam score replacing the lowest midterm score.

Pre-assignment MasteringChemistry Homework (15%)

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

Post-assignment and In-Class Chem101.co Homework (10%)

Discussion Quizzes (15%)

A problem set or quiz will be given in each discussion class. Each will cover material from the previous week of lectures. No make-ups will be given. Any missed discussion is scored as a zero. At the end of the semester, the lowest score will be dropped.

Final Course Grade will be based upon:

60% Exam Grade (2 options, see above)

25% Homework (MasteringChemistry Pre-Assignments) and Chem101.co Post-Assignments

15% Discussion 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: In order to get a straight grade such as an A or B, one must have AT LEAST ONE exam grade with that straight grade value. 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 Policies

Dropping Class: Students wanting to drop lecture after midterm may stay in the co-req lab only if lecture midterm grade, posted in LOUCS, is a D or better. Students should continue to attend the lecture until the week of the drop date to gain as much background knowledge as possible. For Spring 2018 students wishing to drop lecture, and have a mid-term grade of D or better (in lecture), can seek assistance from the Department of Chemistry & Biochemistry office beginning Tuesday March 20 at 9:00am through Monday March 26th at 4:00pm.

Course Repeat Rule: Effective with the Fall 2017 semester, students are allowed only THREE attempts to pass Chemistry courses with a C- or better grade. The three attempts include withdrawals (W). After the second attempt, the student must secure approval for a third attempt. Students must come to the Chemistry Department, fill out a permission to register form or print it from Department of Chemistry & Biochemistry website: <http://www.luc.edu/chemistry/forms/> and obtain a signature from the Undergraduate Program Director, Assistant Chairperson, or Chairperson in Chemistry. A copy of this form is then taken to your Academic Advisor in Sullivan to secure final permission for the attempt.

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

TENTATIVE Schedule for Chemistry 101 (10:25am Fall 2018)

Chapter	Topic	Pages		Class #	Tentative Class Dates
1	Matter and Measurement (Matter & Method)	2	13	1,2	8/27,8/29
	(Measurement)	14	39	3,4,5	8/31,9/5,9/7
2	Atoms, Molecules, and Ions	40	79	6,7	9/10, 9/12
3	Chemical Reactions and Stoichiometry	80	121	8,9,10	9/14,9/17,9/19
	<i>EXAM 1</i>			11	Friday, Sept 21
4	Reactions in Aqueous Solutions	122	163	12,13,14	9/24,9/26,9/28
5	Thermochemistry	164	211	15,16,17	10/1,10/4,10/5
	<i>FALL BREAK</i>				10/8-10/9
6	Electronic Structure of Atoms	212	255	18,19,20,21	10/10,10/12,10/15,10/17
7	Periodic Properties of Elements	256	297	22,23,24	10/19,10/22,10/24
	<i>EXAM 2</i>			25	Friday, Oct 26
8	Basis Concepts of Chemical Bonding	298	341	26,27,28,29	10/29,10/31,11/2,11/5
9	Molecular Bonding & Bonding Theory (VSEPR & Hybridization)	342	397	30,31,32,33	11/7,11/9,11/12,11/14,11/19
	<i>EXAM 3</i>			34	Friday, Nov 16
	<i>THANKSGIVING BREAK</i>				11/21-11/25
11	Gases and Properties	398	441	35,36,37,38	11/19, 11/26,11/28,11/30
12	Nuclear Chemistry	442	480	39,40	12/3, 12/5
	Overview of Topics			41	12/7
	<i>FINAL EXAM</i>				Monday Dec 10 ^h 9:00am