

Syllabus for Chemistry 101-009

10:00 – 11:15 am Tu&Th

Loyola University: Fall 2015

Instructor: Dr. Conrad Naleway; Office FH 200C
Office Hours: To be announced by instructor

Meeting Times; Days & Rooms:

Lecture: 10:00-11:15am, TTh in Flanner Hall Auditorium FH-133
Discussion & Quizzes: Thursday 11:30 am, 1:00 pm and 2:30 pm in FH 07 (basement)

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: 10:00-11:15am Tu 9/23; Th 10/23; Tu 11/25 **Final:** Tuesday 12/8, 1-3pm

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 (70%)

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 midterm 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.

Preassignment 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

Discussion Quizzes (15%)

A short quiz, 15-20 minutes, will be given in each discussion class. Each quiz will cover material from the previous week of lectures. No make-up quizzes will be given, any missed quiz is scored as a zero. At the end of the semester, the lowest quiz score will be dropped.

Final Course Grade will be based upon:

70% Exam Grade (2 options, see above)

15% Homework (MasteringChemistry pre-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: 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:

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.

TENTATIVE Schedule for Chemistry 101 (8:30-9:45pm - Fall 2013)

| Chapter | Topic | Pages | | Class # | Tentative Class Dates |
|---------|--|-------|-----|-----------|---|
| 1 | Matter and Measurement (Matter & Method) | 2 | 13 | 1,2 | 8/25,8/27 |
| | (Measurement) | 14 | 39 | 3 | 9/1 |
| 2 | Atoms, Molecules, and Ions | 40 | 79 | 4,5 | 9/3, 9,8 |
| 3 | Chemical Reactions and Stoichiometry | 80 | 121 | 6,7 | 9/10,9/15 |
| | EXAM 1 | | | 8 | Thursday Sept 17 |
| 4 | Reactions in Aqueous Solutions | 122 | 163 | 9,10 | 9/22,9/24 |
| 5 | Thermochemistry | 164 | 211 | 11,12 | 9/29,10/1 |
| | FALL BREAK | | | | 10/5-10/6 |
| 6 | Electronic Structure of Atoms | 212 | 255 | 13,14 | 10/8 10/13 |
| 7 | Periodic Properties of Elements | 256 | 297 | 15,16 | 10/15,10/20 |
| | EXAM 2 | | | 17 | Thursday, Oct 22 |
| 8 | Basis Concepts of Chemical Bonding | 298 | 341 | 18,19,20 | 10/27,10/29,11/3 |
| 9 | Molecular Bonding & Bonding Theory (VSEPR & Hybridization) | 342 | 397 | 21,22 | 11/5,11/10 |
| | EXAM 3 | | | 23 | Thursday, Nov 12 |
| 11 | Gases and Properties | 398 | 441 | 24,25 | 11/17,11/19,11/24 |
| | ThanksGivings Break | | | | 10/25-10/29 |
| 12,13 | Liquids & Intermolecular Forces | 442 | 480 | 26,27,28 | 12/1,12/3 |
| | FINAL EXAM | | | | Tuesday Dec 8th (1pm) |