LOYOLA UNIVERSITY CHICAGO

Department of Chemistry & Biochemistry
1068 W. Sheridan Rd.
Chicago, IL 60660
https://www.luc.edu/chemistry/

Course: **General Chemistry**
CHEM 101
Semester: Spring 2019
Lecture: Section 005 - MWF 8:15 – 9:05 AM, Cuneo 109
Discussions: Section 006 – W 9:20 – 10:10 AM, FH 105
Section 007 – W 10:25 – 11:15, FH 105
***you must attend your assigned discussion section due to seating limitations*

Professor: **Dr. Caitlin G. Decker, PhD**
Adjunct Professor of Chemistry
Office Hours: FH 129, Tuesdays 3:30-4:30 PM
FH 301, Thursdays 3:30-4:30 PM
Email: *cdecker@luc.edu*
*** No specific problem-solving questions will be answered via email. All such questions should be posted to the discussion board (sakaii) so that they are visible to all students or asked during discussion section / office hours.*

Materials: **Textbook**
Brown, LeMay, et. al. (2018) Chemistry the Central Science, 14th edition. Print or electronic version is fine. MasteringChemistry material is optional (there are a lot of resources there). Earlier editions are acceptable.
ISBNs:
MyLab plus Etext: 9780134553108
MyLab plus loose-leaf: 9780134557328
MyLab plus Hardcopy: 9780134292816

Sakaii: All students are enrolled in the class Sakaii site. It is imperative that you check this site daily to keep informed of all activities and grades.

Important Dates: March 18th – drop deadline

Exams: **Exam 1 – Monday Feb 18th**
Exam 2 – Monday Mar 18th
Exam 3 – Monday Apr 15th
FINAL - Thursday May 2nd, 9-11 AM
There will be NO regrades for this course on any exam. Grades are final. You must show your ID to the instructor and sign-in next to your name for each exam. All electronic devices must be turned off and inside bags that are to be left at the front of the classroom during the exam.

Grade: Grades will be determined using one of the two methods below (whichever results in a *higher* overall grade):
1) All three midterms + final are averaged. Thus, each exam will weigh 1/4.
2) The top two mid-term exams weigh 1/4 each, and the final will weigh 1/2. This equates to the final exam score replacing the lowest midterm score.
***due to this policy there will be NO make-up exams. If you miss an exam, it will count as the "dropped" exam, and method #2 will be used to calculate your grade.*

Grading Scale:
98-100% = A+ 90-97% = A
86-88% = B+ 80-85% = B
74-79% = C 70-73% = C-
60-69% = D
Below 60% = F
***the professor reserves the right to implement a curve, as necessary*

Course Description: Lecture and discussion. The course deals with the development of basic chemical principles. Topics include atomic and molecular structures, states of matter, energetics and stoichiometry of reactions. For non chemistry majors and students in the B.A. Chemistry program.

Prerequisite: **Math 117 (C- or better) or passing the Loyola math proficiency exam**
Co-requisite: **CHEM 111**

Course Content:
Ch 1. Matter, Energy, and Measurement.
Ch 2. Atoms, Molecules, and Ions
Ch 3. Chemical Reactions and Reaction Stoichiometry
Ch 4. Reactions in Aqueous Solution
Ch 5. Thermochemistry
Ch 6. Electronic structure of atoms
Ch 7. Periodic Properties of the Elements
Ch 8. Basic Concepts of Chemical Bonding
Ch 9. Molecular Geometry and Bonding Theories
Ch 10. Gases
Ch 21, 23, and 24. *Selected Topics* (Nuclear Chem., Transition Metals, Organic & Biological Chem.)

Institutional Policies:
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 Depart 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 Course Schedule/Outline:

The instructor reserves the right to adjust the schedule and assignments as circumstances may warrant during the semester.

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	*Jan 14th*	*Jan 15th*	*Jan 16th*	*Jan 17th*	*Jan 18th*
	Syllabus / Ch.1		Ch.1		Ch.1
2	***Jan 21st***	*Jan 22nd*	*Jan 23rd*	*Jan 24th*	*Jan 25th*
	MLK NO CLASS		Ch. 2		Ch. 2
3	*Jan 28th*	*Jan 29th*	*Jan 30th*	*Jan 31st*	*Feb 1st*
	Ch.2		Ch. 3		Ch. 3
4	*Feb 4th*	*Feb 5th*	*Feb 6th*	*Feb 7th*	*Feb 8th*
	Ch. 3		Ch. 4		Ch. 4
5	*Feb 11th*	*Feb 12th*	*Feb 13th*	*Feb 14th*	*Feb 15th*
	Ch. 4		Ch. 5		Ch. 5
6	*Feb 18th*	*Feb 19th*	*Feb 20th*	*Feb 21st*	*Feb 22nd*
	EXAM 1		Ch. 5		Ch. 5
7	*Feb 25th*	*Feb 26th*	*Feb 27th*	*Feb 28th*	*Mar 1st*
	Ch. 6		Ch. 6		Ch. 6
8	***Mar 4th***	***Mar 5th***	***Mar 6th***	***Mar 7th***	***Mar 8th***
	Spring Break NO CLASS				
9	*Mar 11th*	*Mar 12th*	*Mar 13th*	*Mar 14th*	*Mar 15th*
	Ch. 7		Ch. 7		Ch. 7
10	*Mar 18th*	*Mar 19th*	*Mar 20th*	*Mar 21st*	*Mar 22nd*
	EXAM II		Ch 8		Ch. 8
11	*Mar 25th*	*Mar 26th*	*Mar 27th*	*Mar 28th*	*Mar 29th*
	Ch 8		Ch 9		Ch 9
12	*Apr 1st*	*Apr 2nd*	*Apr 3rd*	*Apr 4th*	*Apr 5th*
	Ch 9		Ch 10		Ch 10
13	*Apr 8th*	*Apr 9th*	*Apr 10th*	*Apr 11th*	*Apr 12th*
	Ch 10		Selected Topics		Selected Topics
14	*Apr 15th*	*Apr 16th*	*Apr 17th*	*Apr 18th*	***Apr 19th***
	EXAM III		Selected Topics		**Good Friday NO CLASS**
15	***Apr 22nd***	*Apr 23rd*	*Apr 24th*	*Apr 25th*	*Apr 26th*
	Easter Break NO CLASS		Selected Topics		
16	*Apr 29th*	*Apr 30th*	*May 1st*	*May 2nd*	*May 3rd*
	Final Exam Week			**FINAL EXAM 9-11 AM**	