LOYOLA UNIVERSITY CHICAGO

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

Course: **Organic Chemistry**
CHEM 223
Semester: Spring 2019
Lecture: Section 004 - T/Th 8:30 – 9:45 AM, Cuneo 002
Discussions: Section 005 – T 2:30 – 3:20 AM, FH 105
Section 006 – Th 2:30 – 3:20, 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**
Klein, David. (2017) Organic Chemistry, 3rd edition.
Print or electronic version is fine. Earlier editions are acceptable.
ISBNs:

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 – Tuesday Feb 19th**
Exam 2 – Tuesday Mar 19th
Exam 3 – Tuesday Apr 16th
FINAL - SATURDAY May 4th, 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 the grade.*

Grading Scale:
98-100% = A+ 90-97% = A
86-89% = 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. First semester of a two semester sequence for non-chemistry majors. A survey of topics including stereochemistry; spectroscopy; and fundamental concepts of organic chemistry. Nomenclature, properties and syntheses of aliphatic and aromatic hydrocarbons, alkyl halides, alcohols and ethers.

Prerequisite: **Chem 102 and 112, or 106.**

Course Content:
Ch 1. A Review of General Chemistry: Electrons, Bonds, and Molecular Properties
Ch 2. Molecular Representations
Ch 3. Acids and Bases
Ch 4. Alkanes and Cycloalkanes
Ch 5. Stereoisomerism
Ch 6. Chemical Reactivity and Mechanisms
Ch 7. Substitution and Elimination Reactions of Alkyl Halides
Ch 8. Addition Reactions of Alkenes
Ch 9. Alkynes
Ch 10. Radical Reactions
Ch 11. Synthesis
Ch 12. Alcohols and Phenols
Ch 13. Ethers and Epoxides; Thiols and Sulfides
Ch 14. Infrared Spectroscopy and Mass Spectrometry

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	
2	*Jan 21st*	*Jan 22nd*	*Jan 23rd*	*Jan 24th*	*Jan 25th*
	MLK	Ch. 2		Ch. 2	
3	*Jan 28th*	*Jan 29th*	*Jan 30th*	*Jan 31st*	*Feb 1st*
		Ch. 3		Ch. 4	
4	*Feb 4th*	*Feb 5th*	*Feb 6th*	*Feb 7th*	*Feb 8th*
		Ch. 5		Ch. 5	
5	*Feb 11th*	*Feb 12th*	*Feb 13th*	*Feb 14th*	*Feb 15th*
		Ch. 6		Ch. 6	
6	*Feb 18th*	*Feb 19th*	*Feb 20th*	*Feb 21st*	*Feb 22nd*
		EXAM 1		Ch. 6	
7	*Feb 25th*	*Feb 26th*	*Feb 27th*	*Feb 28th*	*Mar 1st*
		Ch. 7		Ch. 7	
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. 8		Ch. 8	
10	*Mar 18th*	*Mar 19th*	*Mar 20th*	*Mar 21st*	*Mar 22nd*
		EXAM II		Ch. 8	
11	*Mar 25th*	*Mar 26th*	*Mar 27th*	*Mar 28th*	*Mar 29th*
		Ch. 8		Ch. 9	
12	*Apr 1st*	*Apr 2nd*	*Apr 3rd*	*Apr 4th*	*Apr 5th*
		Ch. 9		Ch. 10	
13	*Apr 8th*	*Apr 9th*	*Apr 10th*	*Apr 11th*	*Apr 12th*
		Ch. 11		Ch. 12	
14	*Apr 15th*	*Apr 16th*	*Apr 17th*	*Apr 18th*	*Apr 19th*
		EXAM III		Ch. 12	Good Friday
15	*Apr 22nd*	*Apr 23rd*	*Apr 24th*	*Apr 25th*	*Apr 26th*
	Easter Break	Ch. 13		Ch. 14	
16	*Apr 29th*	*Apr 30th*	*May 1st*	*May 2nd*	*May 3rd*
	Final Exam Week				

FINAL EXAM
Saturday May 4th
9-11 AM