



Instructor: Dr. Polina Pine

Phone 83134

Email: ppine@luc.edu

Office Location: FH-403

Office Hours: Th 2:00-3:00 pm/F 12:30-1:30 pm

Lectures: MWF 9:20-10:10am FH Auditorium

You must also be registered in one of the following discussion sections:

Discussions: 006 – W 10:25-11:15 am FH-7

007 – W 12:35pm-1:25pm FH-7

Best and fastest way to contact Dr. Pine is in person during the office hours, before/after the Discussion Session; brief questions may be asked before/after M/F only lectures. If email is sent after 5pm during business days it may be answered the afternoon of the next day. If email is sent after 3pm on Friday, most likely it will be answered on Monday.

Course Overview

This course is the first in a yearlong two-semester sequence of organic chemistry covering the structure, properties, and reactivity of aliphatic and alkenic molecules. Specific topics include bonding, nomenclature, conformational analysis, reaction mechanisms, multi-step synthesis, and spectroscopy (MS, IR, and ^1H and ^{13}C NMR).

The student should learn how to:

- Identify the various classes of organic compounds, their methods of preparation, and typical reactions.
- Name and draw specific organic compounds.
- Postulate a logical reaction mechanism for simple organic reactions.
- Discriminate amongst relative stabilities of reaction intermediates.
- Plan and write out multi-step syntheses using known functional group transformations.
- Analyze and interpret data from instruments used in separating and identifying compounds: IR, NMR, MS.

IDEA Objectives

These objectives include learning outcomes beyond this course and will apply across multiple courses and disciplines as you develop as an independent learner at Loyola. These have been selected by the faculty to apply to all sections of Organic Chemistry:

1. Gaining factual knowledge (terminology, classifications, methods, trends)
2. Learning fundamental principles, generalizations, or theories
3. Learning to apply course material (to improve thinking, problem solving, and decisions)
4. Learning how to find and use resources for answering questions or solving problems

Textbook and material:

1. Organic Chemistry, Klein, 3rd ed., Wiley, 2017 (ISBN: 978-1-119-31615-2)
2. WileyPlus online homework/practice tool for the above textbook (Required and is comprised in the final grade calculation)- included in the textbook Package Options given bellow, no additional payment is needed.
3. Student Study Guide and Solutions Manual, Klein, 3rd ed. Wiley, 2017 (ISBN: 978-1-119-37869-3)
4. Molecular modeling kit, Darling, Duluth, or equivalent
5. Organic Chemistry as a Second Language: Second Semester Topics, 4E ed. (or earlier), Klein, 2017, Wiley (ISBN: 978-1-119-11066-8 (PBK)) (Extremely Highly Recommended)
6. Access to printer

Package Options for the textbook: (contact Bookstore for more information)

- a. Loose-leaf printed textbook, printed study guide/solutions manual, and WileyPLUS online-practice problems (ISBN: 978-1-119-38071-9)
- b. Integrated e-textbook and e-study guide/solutions manual, loose-leaf printed textbook, and WileyPlus online-practice problems (ISBN: 978-1-119-43349-1)
- c. Integrated e-textbook and e-study guide/solutions manual and Wiley Plus online-practice problems (ISBN: 978-1-119-43016-2).

Learning procedure:

- **No Taking Photos**
- **No taking Videos**
- **No Audio recording**
- Only positive, respectful behavior is tolerated in this class. Please see **Harassment (Bias)** section at the end of the Syllabus.
- To contact Dr. Pine by email put CHEM224 in the Subject field
- Using the computers, cell phones and tablets may be allowed only by a prior agreement by the instructor. Must be operated on silent mode during lecture and discussion.
- **It is student's responsibility to follow the announcements, and all policies of the class.**
- The class lectures and discussions will be the most critical source of information for this course. If you miss a lecture, please find notes from another student in class.
- Make-up assignments, exams, quizzes are not available for this course.
- It is impossible to study organic chemistry without solving problems from the back of each chapter independently on one's own.
- Classes will be given as a combination of the following formats: board, multimedia, use of models, discussions, independent and facilitated problem solving.

- Dr. Pine's lecture slides if posted on Sakai may be doubling the material in the class or covering material that expected to be covered by students independently. Follow the announcements in class and ask Dr. Pine during the class, after or before the lecture if anything remains unclear.
- The study guides in form of problems kits (discussion handouts) if assigned will be posted on Sakai, students must print these handouts, bring them to every class and follow all directions given in the handout (more details about the discussion handout and their incorporation in the final grades will be given during the first Discussion)
- **Please note that materials from this course cannot be shared outside the course without the instructor's written permission (as reminded by the CAS Dean's Office memo, Jan. 8, 2018).**
- *Organic chemistry 2 is heavily based on concepts covered in general chemistry and Organic Chemistry 1. If you feel hesitant about any of the concepts covered in previous classes you have to review it before coming to first class or during first week of the classes.*

Students have to expect to devote 20-40 HOURS OUTSIDE OF CLASS TIME PER WEEK to studying for organic chemistry. Try not to do homework with the solutions manual out. THIS IS A COMMON MISTAKE STUDENTS MAKE. Students who study in this manner often trick themselves into thinking they know chemistry when really they do not.

Make-up assignments are not available for this course. Contact a classmate for notes, sections/topics covered if you miss a class. **For success in this course, it is important to review your notes, read the textbook and look over the slides/material prior and after class, work on homework problems every day.** DO NOT FALL BEHIND. Attendance is not taken for credit but any absence or any not following the policies or announcements given in class may result in poor performance in class.

Due to the fast pace of the semester announcements given in class may not be necessarily doubled/tripled in any electronic form (email, Sakai etc.) It is student's responsibility to follow the announcements, and all policies or changes of the class.

Grading policy:

There are NO EXTRA ASSIGNMENTS NO MAKE-UP EXAMS OR QUIZZES.

Under no circumstances may an exam/quiz be taken at a time and date other than that assigned.

The midterm and final letter grades will be given based on the points scored in the course only. Final grade will be determined from one of the following options whichever is higher:

Option1:

Quizzes	10%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final Exam	30%
Total	100%

Option2 (Lower unit-exam score is a drop):

Quizzes	10%
Unit Exam	20%
Unit Exam	20%
Final Exam	50%
Total	100%

All quizzes are online quizzes through the WileyPLUS online resource (see Package Options above) the dates of the quizzes are given in the *Tentative Lecture Schedule posted on Sakai under Recourses*. All details will be given during the first **Discussion**.

Every unit exams: 50 minutes, the dates are February 9th, March 2nd, and April 9th exact dates are given in the tentative schedule posted on Sakai. **If you miss one unit exam for any reason, the missed exam will be dropped and Option 2 will automatically be used to determine your grade.** A second missed unit exam will result in a score of zero for the missed exam. There are NO EXTRA ASSIGNMENTS NO MAKE-UP EXAMS OR QUIZZES. Under no circumstances may an exam/quiz be taken at a time and date other than that assigned.

Final exam has to be taken during the scheduled time only!

Final exam: two hours - MANDATORY. The final exam must be taken ONLY on the date scheduled or a grade of F will automatically result. Final exam is comprehensive. **Final exam Saturday May 5th 1:00-3:00 pm.** For exact day and time check here:

http://www.luc.edu/academics/schedules/spring/exam_schedule.shtml)

All exams are expected to be graded within seven business days. Students must pick up their score reports or exams (if available) within one week after the scores are published only and during the times announced by the instructor. Issues with graded exams must be submitted within seven calendar days of being returned, otherwise scores will be considered final.

Approximate grading scale

A 100-93
A- 92-85
B+ 80-84
B 75 -79
B- 70-74
C+ 65-69
C 60-64
C- 55-59
D+ 50-54
D 40-49
F less than 40

Only mistakes such as tallying up points by the lecturer are eligible for regarding.

March 26th - Last day (5:00 p.m.) to withdraw with a grade of "W", after this date, the penalty grade of "WF" is assigned.

IMPORTANT: Students wanting to drop lecture after midterm may stay in the co-req lab:

- Only if the midterm grade, in lecture, posted in LOCUS, is a D or better.

- Students must continue to attend 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, can seek assistance from the Department of Chemistry & Biochemistry office beginning Monday March 20th at 9:00am through Monday March 26 - 4:00pm.
- Students with a midterm grade of F who decide to withdraw from lecture must also withdraw from lab. No exceptions.

The Exams procedure

Calculators, phones, headphones, tablets and any electronic devices **are not permitted**. Come to the exam with **three** items: working **HB-2 pencil(s)**/pens, model kit, and your **Loyola ID** visible on your desk to be checked during the exam. Cumulative final exam is two hours duration.

All purses, bags, jackets, etc must be left at front of the room. Once the exam is distributed, if you exit the room for any reason before time is up, your exam is complete and will be collected.

Instructor Privileges

Instructor reserves the right to make changes and adjustments to this syllabus as necessary, including, but not limited to the grading policy and course schedule.

Course Topics :

Chapters to be covered are: 15-22, 24-26. Not all textbook sections will be fully covered or covered in the order the textbook dictates, so focus first on the material that is directly covered in lecture and assigned for homework and discussion handouts)*:

** See Tentative Lecture Schedule posted on Sakai under Recourses. Students are expected to read the textbook before and after the lecture.*

Our actual pace and the topics may vary from the schedule

Disability Accommodations

At times, students with disabilities may wish to avail themselves of the University's ancillary services. Students requiring accommodations at the University need to contact the Coordinator of Services for Students with Disabilities, then provide documents and schedule arrangements with the instructor at the beginning of the term. Information is available at: <http://www.luc.edu/sswd/>

Students with documented evidence of the time extension must take the exams in the SSWD center ONLY with prior arrangement (usually at least one week before the exam). The start time of the exam must be the start time of the actual lecture or scheduled in such a way that the time of the exam of the student taking the exam in the SSWD center overlaps with the exam time of the class.

Academic Integrity

Trust and integrity are important qualities in students. All submitted work must represent your own work and your own work only. Academic dishonesty of any kind, such as plagiarism and cheat sheets

on exams, will not be tolerated. Any student caught cheating on an assignment in any way will receive a “zero” for that assignment and be reported to Chairperson of the Chemistry Department and the Dean School of Art and Science. For further information regarding the Academic Integrity policy and disciplinary procedures, refer to the Undergraduate Studies Catalog: http://www.luc.edu/academics/catalog/undergrad/reg_academicintegrity.shtml.

Tutoring Center

The CTAE offers several different programs each semester, including class-specific tutor-led small groups, Academic Coaching groups dedicated to general academic support, and a Study Buddy Directory for students seeking out more independent collaboration with other students in the same class or subject area. For more information refer to http://www.luc.edu/tutoring/Small_Group_Info.shtml

Harassment (Bias Reporting)

It is unacceptable and a violation of university policy to harass, discriminate against or abuse any person because of his or her race, color, national origin, gender, sexual orientation, disability, religion, age or any other characteristic protected by applicable law. Such behavior threatens to destroy the environment of tolerance and mutual respect that must prevail for this university to fulfill its educational and health care mission. For this reason, every incident of harassment, discrimination or abuse undermines the aspirations and attacks the ideals of our community. The university qualifies these incidents as incidents of bias. In order to uphold our mission of being Chicago's Jesuit Catholic University-- a diverse community seeking God in all things and working to expand knowledge in the service of humanity through learning, justice and faith, any incident(s) of bias must be reported and appropriately addressed. Therefore, the Bias Response (BR) Team was created to assist members of the Loyola University Chicago community in bringing incidents of bias to the attention of the university. If you believe you are subject to such bias, you should notify the Bias Response Team at this link: <http://webapps.luc.edu/biasreporting>

A link to the official Loyola calendar can be found here: <http://luc.edu/academics/schedules/index.shtml>