

Syllabus – Organic Chemistry I (Lecture)

The purpose of this syllabus is to describe the course, resources, and policies. It is meant to help all students understand the expectations and requirements for the course, and it should be used as a reference when questions about policy arise during the semester. When updates to the syllabus are made during the semester, a new version will be posted electronically, and all students will be notified. By design, some policies are incomplete in the first version of the syllabus and must be updated. Additional changes will be made if and when it becomes necessary for the entire class.

Course Information

Course: Chemistry 221 – Organic Chemistry I (4 credits: Lecture, Discussion, & Lab)

Prerequisites: A completion of Chemistry 106 with a grade of C- or better. A student missing a prerequisite may be withdrawn at any time.

Time Zone: This syllabus lists dates/times using Chicago local time (U.S. Central Time Zone)

In-Person Learning: All graded assignments scheduled during class time are available in class only.

Lectures: MoWeFr 2:45PM–3:35PM (221 - 001) in Galvin Auditorium, Sullivan Center

Discussions: You must attend the section for which you registered:

- Tu 1:00PM (002) in Flanner Hall 007
- Tu 2:30PM (003) in Flanner Hall 007

Labs: You must participate in the section for which you registered:

- Mo 5:45PM (004) in Life Science Building 115
- Th 1:00PM (005) in Life Science Building 115

Instructor: *Lecture & Discussion:* Dr. James Devery (Ph.D.)

Lab: Mr. Timothy Thomas

Instructor Contact Information

Office: Flanner Hall 215

Email: jdevery@luc.edu

Email timing: In most cases I will be able to respond within 24 hours Monday-Friday when classes are in session. You are encouraged to use Office Hours to get immediate answers to your questions, and to use your classmates as resources for help. You are welcome to email me in the evenings/nighttime, and you can expect a response sometime during the next day.

Slack: chem221f22.slack.com

Office Hours Policy: *You are welcome to stop by at any time to see if my door is open.* Office hours (OH) are one of the Resources for Help, available to give students a regular set of times every week to have access to talk to Devery outside of scheduled classes. For regular OH, just show up! Bring your questions, fully or partially formed, anytime during the times listed. Coordinate with a classmate to come with you or meet your classmates during OH to work through Orgo together. All students are encouraged to attend OH regularly to ask questions or to discuss any issues that arise during the semester. Private conversations can occur by request, but please, just show up!

OH Schedule: **Sundays 1-4 in Ireland's.** Additional times may be announced as needed, and updates will always be posted on Sakai Resources for Help.

TA Information

Our teaching assistant (TA) for the course is **Ms. Katie Siver**, a PhD student in the department. Katie's teaching contributions will include assisting during the Lecture and Discussion classes. Contact Katie via email at: ksiver@luc.edu

SI information

There are online Supplemental Instruction (SI) study sessions available for this course. SI sessions are led by an SI leader, **Mr. Graden Snyder**, who is a student that has recently excelled in the course. Session attendance is open to all, and while it is voluntary, it is extremely beneficial for those who attend weekly. Times and locations for the SI session can be found here: www.luc.edu/tutoring. Students who attend these interactive sessions find themselves working with peers as they compare notes, demonstrate and discuss pertinent problems and concepts, and share study and test-taking strategies. Research shows students who regularly attend sessions have higher grades at the end-of-the-semester and more deeply understand course

Student Accommodations

Loyola University provides reasonable accommodations for students with disabilities. Any student requesting accommodations related to a disability or other condition is required to register with Student Accessibility Center (SAC), located in Sullivan Center, Suite 117. Professors receive the accommodation notification from SAC via Accommodate. Students are encouraged to meet with their professor individually in order to discuss their accommodations. All information will remain confidential. Please note that in this class, software may be used to record class lectures in order to provide equal access to students with disabilities. Students approved for this accommodation use recordings for their personal study only and recordings may not be shared with other people or used in any way against the faculty member, other lecturers, or students whose classroom comments are recorded as part of the class activity. Recordings are deleted at the end of the semester. For more information about registering with SAC or questions about accommodations, please contact SAC at 773-508-3700 or SAC@luc.edu.

Testing Accommodations

Please, schedule all tests with SAC in the first week of classes, or as soon as possible.

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). The Department advises that it is preferable to complete a course with a grade of C or C-, and to demonstrate growth in future coursework, than to withdraw from a course.

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 the Department of Chemistry & Biochemistry website: <https://www.luc.edu/chemistry/forms/> and personally meet and obtain a signature from either 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.

Academic Integrity

All students in this course are expected to have read and to abide by the demanding standard of personal honesty, drafted by the College of Arts & Sciences, which can be viewed at:

<https://www.luc.edu/cas/advising/academicintegritystatement/>

A basic mission of a university is to search for and to communicate the truth as it is honestly perceived. A genuine learning community cannot exist unless this demanding standard is a fundamental tenet of the intellectual life of the community. Students of Loyola University Chicago are expected to know, to respect, and to practice this standard of personal honesty.

Academic dishonesty can take several forms, including, but not limited to cheating, plagiarism, copying another student's work, and submitting false documents.

Any instance of dishonesty (including those detailed on the website provided above or in this syllabus) will be reported to The Chair of The Department of Chemistry & Biochemistry who will decide what the next steps may be. Evidence of cheating in this course will result in, at a minimum, a score of zero (which cannot be dropped from grade calculations) and penalty up to failure of the course. College policies include that instructors will report incidents of academic misconduct to their chairperson as well as to the Assistant Dean for Student Academic Affairs in the CAS Dean's Office. I will report incidents to the Chemistry & Biochemistry Department for further action(s).

Loyola University Absence Policy for Students in Co-Curricular Activities (including ROTC):

Students missing classes while representing Loyola University Chicago in an official capacity (e.g., intercollegiate athletics, debate team, model government organization) shall be allowed by the faculty member of record to make up any assignments and to receive notes or other written information distributed in the missed classes.

Students should discuss with faculty the potential consequences of missing lectures and the ways in which they can be remedied. Students must provide their instructors with proper documentation i.e., "[Athletic Competition & Travel Letter](#)" describing the reason for and date of the absence.

This documentation must be signed by an appropriate faculty or staff member and it must be provided to the professor in the first week of a semester. It is the responsibility of the student to make up any assignments. If

By default, students may not share any course content outside the class without the informed written consent of the owner of that content. This includes any additional recordings posted by students, materials provided by the instructor, and publisher-provided materials. For example, lectures, quiz/exam questions, book figures/slides, and videos may not be shared online outside the class. In some cases, copyright/IP violations may overlap with breaches of academic integrity. Remember that obtaining consent to share materials is an active process.

Final Exam

The University sets the schedule for all final exams. The final will be held on: **Friday, December 16th, 4:15pm, in Galvin Auditorium in Sullivan Center.**

You will have exactly 2 hours to complete the exam. Additional time will not be granted, even if you start late. There will be no make-up final exams given under any circumstance, and the exam will not be given early, either.

Instructors may not reschedule final exams for a class for another day and/or time during the final exam period. There can be no divergence from the posted schedule of dates for final exams. Individual students who have four (4) final examinations scheduled for the same date may request to have one of those exams rescheduled. If a student reports having four final examinations scheduled for the same date, students should be directed to e-mail a petition to Adam Patricoski, Assistant Dean for Student Academic Affairs, CAS Dean's Office (apatricoski@luc.edu).

Best Practices & Suggestions for Success: Preparation, Practice, Self-Assessment

Students often ask me, "How do I get a/an (fill in grade of choice here) in this class?" The answer is simple (see the grading policy for the course), but the process of learning is challenging and can even be uncomfortable as you are pushed to expand the boundaries of your knowledge and abilities. Grades are earned based on how well you demonstrate mastery of the Course Content and Learning Outcomes listed on Page 1 of this syllabus. Please read carefully and completely—and ask questions if you are not sure how/when we are working toward these and the more specific objectives in class. Required preparation includes pre-lecture reading assignments to correlate with required practice which includes the WileyPlus assignments online and the Group Assignments. Very Highly Recommended: active participation during classes (problem-solving, asking/answering questions, taking notes for follow-up), using additional resources for critical self-assessment—working extra problems—in WileyPlus and from your textbook, and during SI sessions. The required homework assignments include the minimum amount of preparation you will need pre-lecture; almost all students will need additional pre- and post-lecture practice with the material in order to achieve a satisfactory level of learning (in order to earn a passing course grade). Reading the textbook is not sufficient, reading solutions to problems is not sufficient: watching other people solve problems is not sufficient: you must solve problems and answer questions individually, without the aid of notes, textbook, google, tutors, solution manuals. What does this mean? You should study (learn) every day by answering questions: practicing until you can rapidly recognize problem types, state the concept(s) being addressed in any question (say it out loud to yourself when practicing), identify subtle differences between problems and correct your own mistakes. This amount of practice usually starts with the aid of your book and other resources, but must conclude with you correctly solving problems without any help—and knowing immediately why your answer is correct. When you cannot differentiate problem types, ask for help. When you cannot find and correct your mistakes, and when you do not understand the difference between your answers and posted solutions, ask for help. Study on your own and with classmates who will quiz you on mixed problems types so that you learn to expect the unexpected and do not learn to rely on brute force memorization or on your notes/book/other every time you encounter an unfamiliar problem type. The purpose of homework problems is to help you learn the material but this requires critical self-assessment as you work: you must know how completely you are learning the material so you may properly evaluate your competency prior to testing. You have many Resources for Help available, in and out of the classroom, at Loyola, and the grading system for this course is designed to guide your learning.

Other Items

- A link to the official Loyola calendar can be found here: <https://www.luc.edu/academics/schedules/>
- The Withdraw deadline for the semester is on Friday November 4th.
- Loyola is using SmartEvals to provide instructor & course feedback. OIE will send emails near the end of the term.
- A tentative class schedule is available on Sakai. We will cover most of Chapters 1-14 this semester, and pre-lecture readings will be continually updated on Sakai. Please be prepared to help your classmates get caught up if they miss a class for any reason. Establish a communication plan to share notes/topics/outlines as needed.

listed with each assignment. Contact [Wiley Support](#) for help with technical aspects of using WileyPlus. Additional practice assignments will be posted that will not count toward the point total for your course grade.

Group Quizzes

On average, 1 quiz per week, usually completed in assigned groups. Most assignments will be completed in class and submitted to Gradescope. The purpose of participation is to improve your learning by: 1) cooperation, communication and support among your classmates as you practice the skills required for success in the course; and 2) providing feedback on your progress to encourage reflection and improvement. Quizzes will include test questions from previous semesters. You will get as much benefit from these quizzes as you choose to put forth in your effort and you are expected to correct your work after receiving feedback. Each quiz will contribute equally toward this category in your course grade. Refer to the Universal Absence Accommodation Policy for missed quizzes.

Foundational Objectives (FOs): Mastery Testing

The purpose of testing is to align your course grade with your level of learning, based on your mastery of Foundational Objectives (FOs). The FOs are all related to the Course Content & Learning Outcomes on the first page of this syllabus. A list of FOs will be updated for each unit as we progress through the material. There will be some overlap between chapters. Questions will be scored as Mastered or Not Mastered for each FO. A score of Mastered is earned for correctness and completeness of the problem(s), and each FO may only be counted once toward your FO Mastery score, which is calculated as 1% each for each Mastered FO (26% total). You will have multiple chances to demonstrate mastery of all the FOs during the term: for example, if you receive a score of Not Mastered for any FO on the first test (or if you choose not to attempt an FO), you can try again to earn a score of Mastered for that FO on the second test. Revision of work that does not meet mastery standards is expected for your learning. Because you will have more than one chance to master the FOs, you will also be able to choose which FOs to work toward for the course. Note that the standards for earning Mastery will be high: by definition there is no partial credit, but you will learn the standards from the examples for class activities. Tentative test dates are: 9/16, 10/7, 10/26, 10/28, 11/18, 12/9. Refer to the Universal Absence Accommodation Policy for missed tests.

Spectroscopy/Synthesis/Mechanisms (SSMs): Mastery Testing

The purpose of testing is to align your course grade with your level of learning, based on your mastery of in-depth topics. The purpose of SSMs is to allow you to demonstrate your higher-level skills of applying and analyzing, requiring you to go beyond memorization of facts and processes and transfer your understanding of essential course concepts to new scenarios. The SSMs are all related to the Course Content & Learning Outcomes on the first page of this syllabus. A list of SSMs will be updated for each unit as we progress through the material. SSMs will be scored as Mastered or Not Mastered. A score of Mastered is earned for correctness and completeness of the problem(s). Note that the standards for earning Mastery will be high: by definition there is no partial credit, but you will learn the standards from the examples for class activities. Each round of testing on SSMs will be followed by an opportunity to resubmit work to earn a score of Proficient for an SSM that was Not Mastered in the first testing opportunity. Resubmissions for Proficiency will also earn reattempts of SSMs. Reattempts will take place with the next round of testing. There are 16 SSM's for this course, with a total contribution of 32% to the course grade. At the end of the term, each Mastered SSM is worth 2% and each Proficient SSM is worth 0.5% toward the SSM Mastery percentage. Note that your grade will not count both Mastery and Proficiency for the same item; an SSM that is scored Proficient and then is subsequently Mastered on a re-attempt is worth 2%. Tentative test dates are: 9/16, 10/7, 10/26, 10/28, 11/18, 12/9. Refer to the Universal Absence Accommodation Policy for missed tests.

Final Exam

The purpose of exams is to align your course grade with your level of learning, based on your ability to complete a cumulative and comprehensive test on the application of essential course concepts. The final is a 2-hour exam, completed on paper, during the scheduled final exam period. Questions may include all material assigned for the semester; refer to feedback on selected participation assignments for expectations of scoring. The final exam will not be returned, and a score will be posted on Sakai. Note that taking the final exam is mandatory to earn a passing course grade (C- or higher).

Changes to Syllabus

There may be changes to the syllabus during the semester. ***You are responsible for all syllabus changes made in class whether or not you attend.***