

ORGANIC CHEMISTRY 224 – Spring 2024

Dr. Tatiana Esipova, Ph.D.

in-person

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LECTURE:	Mo/We/Fr	1:40-2:30 PM	Flanner Hall Auditorium	CHEM 224-001-1043
DISCUSSION A:	We	8:15 AM-9:05 AM	Flanner Hall 105	CHEM 224-002-1044
DISCUSSION B:	We	9:20-10:10 PM	Flanner Hall 105	CHEM 224-003-4203
DISCUSSION C:	We	11:30-12:20 PM	Mundelein Center 406	CHEM 224-004-4204

OFFICE HOURS: Monday & Wednesday 2:45-3:45 PM (right after lecture)
or e-mail me to schedule an appointment

ADDITIONAL OFFICE HOURS (run by Morgan Ashauer – **Supplemental Student Instructor**):
TBD, email: mashauer@luc.edu

REQUIRED RESOURCES

Required Text: Organic Chemistry, Klein, 4th edition, hard copy or eText

Required Key: Student Study Guide and Solutions Manual for Organic Chemistry, Klein 4th

Required Online: WileyPlus online (can be purchased separately)

Prerequisites: CHEM 223 or CHEM 221 Lecture, discussion and laboratory.

Required: Your favorite organic molecular model kit from wherever. Here are just a few of options:
Duluth Labs MM-005 Student Set, *or* Darling Molecular Modeling Kit, *or* Prentice Hall Molecular Model Set

Course Website: Loyola Sakai course management site: sakai.luc.edu/portal/ and tools integrated into the site.

Loyola Email: Messages are sent to the entire class via Sakai, linked to your Loyola email account.

Other Websites: Additional web-based systems will be used for uploading your work and facilitating feedback and evaluation. Registration will be free but required. These may include [Gradescope](#) and other sites

COURSE DESCRIPTION

Second semester of a two-semester sequence for non-chemistry majors, CHEM 224 is 3 credit hour lecture and discussion. Mastery of the second semester material requires comprehensive understanding and recall of the first semester material and will continue the functional group-based approach with an emphasis on mechanisms toward understanding the synthesis and reactions of conjugated π systems, aromatics, carbonyl compounds, amines, carboxylic acids and their derivatives, carbohydrates, lipids and proteins.

Outcome: Identify various classes of organic compounds, assign and understand IUPAC names, predict reaction products and mechanisms, supply starting materials and reagents for synthetic conversions, interpret as well as predict spectra (MS, IR, NMR) for organic molecules, and learn aspects of executing organic reactions in the lab.

COURSE OBJECTIVES

At the end of the semester every student will be asked to complete an evaluation of this course via online program for instructor and course evaluation. The evaluation criteria for this course are as follows:

1. Gaining a basic understanding of the subject (e.g. factual knowledge, methods, principles, generalizations, theories)
2. Learning to apply course material (to improve thinking, problem solving and decisions)
3. Gaining a broader understanding and appreciation of intellectual/cultural activity

EXAMS AND GRADING

The midterm and final letter grades will be given based on the points scored in the course. Students are allowed to drop one lowest score midterm exam.

WileyPlus pre-class test	10%
Participation/Individual and Group Assignments	10%
Midterm 1	25%
Midterm 2	25%
Midterm 3	
Final Exam*	30%
Total Score	100%

*the final exam is mandatory to earn a passing grade

Mid-term Exams

There are three mid-term exams (50 min) during the semester on the dates listed below. The exams will be held during the Lectures. There are NO MAKEUP mid-term exams. If you miss one exam, this will be your drop exam. A second missed mid-term exam will result in score zero for the missed exam. Exams will be graded and returned as quickly as possible, usually by the following class period. All grading questions, points of clarification, and grading errors must be brought to the instructor's attention no later than one week after the graded exam is returned.

Mid-term Exam dates: February 14, March 20, April 17.

Final Exam

The final exam (2 hours) will take place on **Wednesday, May 1 at 7:00–9:00 PM**. *The final exam is cumulative.* All topics discussed during classes over the semester are on the final.

Location will be updated on LOCUS when available. 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).

The Exams procedure

Calculators, phones, headphones, tablets and any electronic devices ARE NOT PERMITTED. Three items are allowed: (1) working pens, (2) model kit, and (3) your Loyola ID visible on your desk to be checked during the exam.

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.

When you are finished with your exam, please bring your completed exam to the front, and leave the room quietly without disturbing the other students.

Exams will be graded and returned as quickly as possible, usually by the following class period. All grading questions, points of clarification, and grading errors must be brought to the instructor's attention no later than one week after the graded exam is returned.

Any violation of these policies will be in violation with the Academic Integrity Policy described below.

Exams will be graded and returned as quickly as possible, usually by the following class period. All grading questions, points of clarification, and grading errors must be brought to the instructor's attention no later than one week after the graded exam is returned.

Final Grades

A guideline for grades is shown below. No curves will be available for Midterm Exams.

A	=	90.0%	C+	=	65.0%
A-	=	85.0%	C	=	60.0%
B+	=	80.0%	C-	=	55.0%
B	=	75.0%	D	=	40.0%
B-	=	70.0%	F	=	<40%

SYLLABUS

The current syllabus is posted on Sakai and is subject to change (dated at the top) during the semester. You are responsible for all changes announced whether or not you are in attendance.

DISCUSSION

The discussion section will be devoted to working through problems and answering questions about the homework problems and lecture/text material. *Attendance and participation are expected.*

HOMEWORK

Students have to expect to devote at least 12 HOURS OUTSIDE OF CLASS TIME PER WEEK to studying for organic chemistry. Try not to do homework with the solutions manual out. Homework problems will be recommended for each chapter but not collected, so you must be disciplined about working problems and keeping up with the pace of the lecture. Experience has demonstrated a direct correlation of success in organic with consistently working the assigned problems in the book and writing out the answers.

SAKAI MATERIALS

All handouts provided in class will be mirrored on Sakai. Multiple problem sets can be found on Sakai (sakai.luc.edu/) as the semester proceeds. We will use these problems as a basis for the Discussion Section. The problem sets will NOT be graded and are there to help you prepare for the exams.

INTELLECTUAL PROPERTY

All lectures, videos, notes, PowerPoints and other instructional materials in this course are the intellectual property of the Instructor or Wiley, and are so marked on Sakai and elsewhere. As a result, they may not be distributed or shared in any manner, either on paper or in virtual form, without written permission. In lecture and discussion, no photographs or recordings of any kind are allowed without the expressed written permission of the instructor.

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, submitting false documents, and deliberately disrupting the performance of other class members. Standards apply to both individual and group assignments.

Academic cheating is a serious act that violates academic integrity. Academic dishonesty includes, but is not limited to using notes or books during exams, using group chats during the exam period, or talking during an exam. Any student caught cheating on an assignment in any way will receive "zero" for that assignment, and this grade cannot be dropped. The incident will be reported to the Chemistry Department Chair and the Office of the Dean. Additional sanctions including expulsion from the University may be imposed. All students in this course are expected to have read and to abide by the appropriate standard of personal honesty and integrity, drafted by the College of Arts & Sciences that can be viewed online at <https://www.luc.edu/cas/advising/academicintegritystatement/>

SUPPLEMENTAL INSTRUCTION (SI) AND TUTORING

There are Supplemental Instruction (SI) study sessions available for this course. SI sessions are led by an SI leader, who is a student that has recently excelled in the course. Session attendance is open to all and is voluntary, but 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 whom regularly attend sessions have higher grades at the end-of-the-semester and more deeply understand course concepts than those who do not. Students are asked to attend SI sessions with their Loyola ID, lecture notes, and textbook.

The Tutoring Center offers free small group tutoring and lab (drop-in) tutoring for Loyola students. The groups meet once a week through the end of the semester and are led by a student who has successfully completed

study in the course material. To learn more or request tutoring services, visit the Tutoring Center online at www.luc.edu/tutoring. The Student ACS (American Chemical Society) affiliate also offers tutoring for free every week in Flanner Hall.

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.

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.

ABSENCE POLICY

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 the student misses an examination, the instructor is required to allow the student to take the examination at another time.

(<https://www.luc.edu/athletheadvising/attendance.shtml>)

Students who will miss class for an academic competition or conference must provide proper documentation to their instructor as early in the semester as possible.

Accommodations for Religious Reasons

If you have observances of religious holidays that will cause you to miss class or otherwise effect your performance in the class you must alert the instructor **within 10 calendar days of the first class meeting of the semester** to request special accommodations, which will be handled on a case by case basis.

Universal Absence Accommodation Policy

The purpose of a universal absence accommodation policy is to account for emergency circumstances (e.g., serious illness, caring for a family member, car accident) that require you to be absent from class, while maintaining fairness in grading for students who attend and complete all in-class graded assignments. We believe that class attendance and participation are essential for your success in this class, and that your health is important to us and our shared community. Please use good judgement and stay home if necessary/prudent for your circumstances.

This is the universal accommodation policy for in-class graded assignments:

One missed in-class exam due to absence for any reason is already accommodated in the course grading system. Given that only the best two in-class exams are included in this calculation, a missed exam would be the one not included in this calculation, as it would be the lowest score (0%) of the three exams.

You may provide documentation for an absence, but it is not required. These accommodations are automatically available to all students.

WELLNESS

If there are events in your personal life that directly affects your performance in this course and others, please consult me or contact the Wellness Center (<http://www.luc.edu/wellness/>) or the Dean of Students Office (<http://www.luc.edu/dos/>). These resources are included in your tuition and may be an invaluable resource during the completion of your degree.

DROPPING AND WITHDRAWAL

January 29: Last day to withdraw without a "W" grade

January 29: Last day to withdraw with a 100% Bursar credit

February 12: Last day to withdraw with a 50% Bursar credit

February 19: Last day to withdraw with a 20% Bursar credit

March 25: Last day to withdraw with a "W" grade, thereafter a "WF" will be assigned

Privacy Statement

Assuring privacy among faculty and students engaged in online and face-to-face instructional activities helps promote open and robust conversations and mitigates concerns that comments made within the context of the class will be shared beyond the classroom. As such, recordings of instructional activities occurring in online or face-to-face classes may be used solely for internal class purposes by the faculty member and students registered for the course, and only during the period in which the course is offered. Students will be informed of such recordings by a statement in the syllabus for the course in which they will be recorded. Instructors who wish to make subsequent use of recordings that include student activity may do so only with informed written consent of the students involved or if all student activity is removed from the recording. Recordings including student activity that have been initiated by the instructor may be retained by the instructor only for individual use.

CALENDAR

week	Monday	Tuesday	Wednesday	Thursday	Friday
1		1/16	1/17 L1; D1A;D1B;D1C (ch15)	1/18	1/19 L2 (ch15)
2	1/22 L3 (ch16)	1/23	1/24 L4; D2A;D2B;D2C (ch16)	1/25	1/26 L5 (ch16)
3	1/29 L6 (ch17)	1/30	1/31 L7; D3A;D3B;D3C (ch17)	2/1	2/2 L8 (ch17)
4	2/5 L9 (ch18)	2/6	2/7 L10; D4A;D4B;D4C (ch18)	2/8	2/9 L11 (ch18)
5	2/12 L12 (ch19)	2/13	2/14 Midterm 1 (CH15-CH18); D5A;D5B;D5C	2/15	2/16 L13 (ch19)
6	2/19 L14 (ch19)	2/20	2/21 L15; D6A;D6B;D6C (ch20)	2/22	2/23 L16 (ch20)
7	2/26 L17 (ch20)	2/27	2/28 L18; D7A;D7B;D7C (ch21)	2/29	3/1 L19 (ch21)
8	3/4 Spring Break	3/5 Spring Break	3/6 Spring Break	3/7 Spring Break	3/8 Spring Break
9	3/11 L20 (ch21)	3/12	3/13 L21; D8A;D8B;D8C (ch22)	3/14	3/15 L22 (ch22)
10	3/18 L23 (ch22)		3/20 Midterm 2 (CH19-CH22) D9A;D9B;D9C	3/21	3/22 L24 (ch23)
11	3/25 L25 (ch23)	3/26	3/27 L26; D9A;D9B;D9C (ch23)	3/28 Easter	3/29 Easter
12	4/1 Easter	4/2	4/3 L27; D10A;D10B; D10C (ch24)	4/4	4/5 L28 (ch24)
13	4/8 L29 (ch24)	4/9	4/10 L30; D11A;D11B; D11C (ch25)	4/11	4/12 L31 (ch25)
14	4/15 L32 (ch25)	4/16	4/17 Midterm 3 (CH23-CH25); D12A;D12B; D12C	4/18	4/19 L33 (ch26)
15	4/22 L34 (ch26)	4/23	4/24 L35; D13A;D13B; D13C (ch27)	4/25	4/26 L36 (ch27)
16	4/29	4/30	5/1 Final Exam 7:00 PM	5/2	