

Syllabus – Organic Chemistry II

Course Information

Chemistry 222 – Organic Chemistry II for Chemistry Majors

Instructor: Dr. Chad Eichman
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Weekly Schedule

Lecture: Monday, Wednesday, Friday 2:45-3:35 PM in Life Science Building 142
Discussion: Tuesday 11:30-12:20 PM in Mundelein 307 OR 1:00-1:50 PM in Cuneo Hall 109
Laboratory: Tuesday OR Thursday 2:30-5:15 PM in Life Science Building 115

Office Hours

Monday 1:00-2:00 PM
Tuesday 10:00-11:00 AM
Wednesday 1:00-2:00 PM

To schedule an alternative appointment, please email me.

Email

You must use your Loyola email address for all communication during this course. Emails from outside sources are often blocked automatically.

Course Description

“A lecture, discussion and laboratory course for chemistry majors continuing from 221 covering nomenclature, properties, reactions, syntheses, and spectroscopy of further classes of aliphatic and aromatic compounds, carbohydrates and other polyfunctional compounds.

Outcome: Students will be able to assign IUPAC names, spectroscopically identify, prepare, and propose reactions for these groups.”

Textbook and Additional Course Materials

Textbook: Organic Chemistry (8th Edition)
Authors: L. G. **Wade** Jr.
Publisher: Prentice Hall
ISBN-10: 0-321-76841-8

Study Guide: MasteringChemistry (optional)

Molecular Model Kit: Molecular Visions Organic Model Kit (#3) or Preferred Kit (optional)

Lab Materials: [Making the Connections² By Anne B. Padias](#) (ISBN: 978-073804135-3)
[Laboratory Notebook](#): Hayden-McNeil (ISBN: 978-1429224543)

Website: sakai.luc.edu

Grading

5 Quizzes (40 points)	200	13.3%
3 Midterm Exams (200 points)	600	40%
1 Final Exam (400 points)	400	26.7%
Laboratory Work	300	20%
Total	1500	100%

Quizzes

There are **six** quizzes offered during the semester during the Discussion Section on the dates listed below. The quizzes will be worth 40 points each. *The lowest scored quiz will be dropped.* There are NO MAKEUP quizzes. If you miss one quiz, it will be dropped and the 5 remaining quizzes will be counted.

Quiz Dates: January 20, February 3, February 24, March 10, March 31, and April 7.

Midterm Exams

There are **three** midterm exams during the semester on the dates listed below. The midterm exams cover only lecture topics and will be held on Tuesdays during the Discussion Section. EACH EXAM COUNTS.

Midterm Exam Dates: February 10, March 17, and April 14.

Final Exam

The final exam will take place **4:15-6:15 PM on Friday, May 1** in a LSB 142. *The final exam is cumulative.* All topics discussed during lecture over the semester are on the final.

IMPORTANT: I must be made aware of any exam conflicts by **Friday, February 6**. I will arrange an alternative exam time ONLY if notified before this date.

Laboratory Work

The laboratory work will be graded as shown in the Lab Syllabus. The lab portion is worth 300 points, equaling 20% of your final grade.

Final Grades

A guideline for grades is shown below. At minimum, you will receive the grade indicated, however, if the class average is below ~75%, there will be a curved grading system.

A = 94–100%
A– = 89–93%
B+ = 86–88%
B = 81–85%
B– = 78–80%

C+ = 75–77%
C = 66–74%
C– = 63–65%
D = 62–51%
F = 50–0%

Excused Absences for Exams

Missed exams will be handled on a case-by-case basis. In general, if you miss an exam because of an illness, death in the family, or any other extenuating circumstance, you must provide written evidence (i.e.- note from doctor, etc.). Once approved, an alternative exam date and time will be assigned. If you miss the final exam with no prior notice, you will receive a zero on the exam and a course letter grade will be assigned.

Lecture, Discussion Section, and Reading

The class lectures will be the *most critical source* of information for this course. Because of this fact, please attempt to hold questions to a minimum during the lectures. If you miss a lecture, please find notes from another student in class.

The discussion section will develop your problem solving skills through working problems and taking quizzes. This time will also be dedicated to answering questions and clarifying any topic covered in lecture. The discussion section is OPTIONAL when there is not a quiz. However, quizzes will be distributed once all questions have been answered and *no one will be admitted into the room once the quiz has begun*.

Suggested reading assignments will be made throughout the semester. Do not expect to learn all of the course material through the textbook. As stated before, lectures are the best source of instruction for the course and reading assignments will serve to complement the lectures.

Problem Sets

There will be multiple problem sets throughout the semester to help you master the course material. The problems will include questions from the Wade textbook as well as additional problems pertaining to the current topics. These 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 quizzes and exams.

Class Etiquette

Come to class on time.
No talking.
No electronic devices.
No eating.

Students with multiple violations of classroom etiquette will be subject to point deductions throughout the semester.

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, that can be viewed at: http://www.luc.edu/cas/pdfs/CAS_Academic_Integrity_Statement_December_07.pdf

Anything you submit that is incorporated as part of your grade in this course (quiz, exam, lab report, etc.) must represent your own work. Any students caught cheating will, at the very minimum, receive a grade of “zero” for the item that was submitted and this grade cannot be dropped. If the cheating occurred during a course exam, the incident will be reported to the Chemistry Department Chair and the Office of the CAS Dean. Depending on the seriousness of the incident, additional sanctions may be imposed.

Dropping and Withdrawal

Be aware of the following dates in the semester:

January 20: Last day to withdraw without a “W” grade
January 25: Last day to withdraw with a 100% Bursar credit
February 8: Last day to withdraw with a 50% Bursar credit
February 15: Last day to withdraw with a 20% Bursar credit
March 23: Last day to withdraw with a “W” grade, thereafter a “WF” will be assigned

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.***

Tutoring

The Center for Tutoring & Academic Excellence provides Loyola University students the opportunity to engage in Collaborative Learning conversations that will increase retention of course material, improve study habits, assist in achieving higher grades, and encounter new friends. For more information concerning our free tutoring services visit: www.luc.edu/tutoring/

Disabilities

Students with a university-documented disability should contact me immediately. If your disability requires that quizzes and exams be taken outside of the scheduled time or place, please consult: www.luc.edu/sswd/. Services for Students with Disabilities (SSWD) serves students with disabilities by creating and fostering an accessible learning environment.

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/studentdevelopment/departments/deanofstudents/>). These resources are included in your tuition and may be an invaluable resource during the completion of your degree.

Course Topics

Chapter 14: Ethers, Epoxides and Thioethers

Chapter 15: Conjugated Systems, Orbital Symmetry, and Ultraviolet Spectroscopy

Chapter 16: Aromatic Compounds

Chapter 17: Reactions of Aromatic Compounds

Chapter 18: Ketones and Aldehydes

Chapter 19: Amines

Chapter 20: Carboxylic Acids

Chapter 21: Carboxylic Acid Derivatives

Chapter 22: Condensations and Alpha Substitutions of Carbonyl Compounds

Chapter 23: Carbohydrates and Nucleic Acids

Chapter 24: Amino Acids, Peptides, and Proteins

Chapter 25: Lipids

Chapter 26: Polymers

Course/Instructor Evaluation – IDEA

Loyola has recently switched to the IDEA program for instructor and course evaluations. At the end of the semester, you will complete an online evaluation of this course based on criteria set by IDEA and by the instructor. For this course, the main objectives are as follows:

- 1) Gaining factual knowledge (terminology, classifications, methods, trends)
- 2) Learning fundamental principles, generalizations, or theories
- 3) Gaining a broader understanding and appreciation of intellectual/cultural activity

Keep these objectives in mind throughout the course.

SPRING 2015 CALENDAR

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	1/12	1/13	1/14	1/15	1/16
2	1/19 MLK Day	1/20 QUIZ 1 Last day to drop without a "W"	1/21	1/22	1/23
3	1/26	1/27	1/28	1/29	1/30
4	2/2	2/3 QUIZ 2	2/4	2/5	2/6
5	2/9 Lecture Q&A	2/10 MIDTERM 1	2/11	2/12	2/13
6	2/16	2/17	2/18	2/19	2/20
7	2/23	2/24 QUIZ 3	2/25	2/26	2/27
8	3/2 Spring Break	3/3 Spring Break	3/4 Spring Break	3/5 Spring Break	3/6 Spring Break
9	3/9	3/10 QUIZ 4	3/11	3/12	3/13 Mid-semester Alert
10	3/16 Lecture Q&A	3/17 MIDTERM 2	3/18	3/19	3/20
11	3/23 Last day to withdraw without WF	3/24	3/25	3/26	3/27
12	3/30	3/31 QUIZ 5	4/1	4/2	4/3 Easter Holiday
13	4/6 Easter Holiday	4/7 QUIZ 6	4/8	4/9	4/10
14	4/13 Lecture Q&A	4/14 MIDTERM 3	4/15	4/16	4/17
15	4/20	4/21	4/22	4/23	4/24 Last Day of Classes!!
16	4/27	4/28	4/29	4/30	5/1 FINAL EXAM