

Organic Chemistry II (CHE 234) Fall 2011

Time: Tue, Thurs 11:00–12:15 pm

Location: DA 335

Instructor: Prof. Naphtali O'Connor

Office Hours: Th 2-3 pm (DA 304)

Contact Info: naphtali.oconnor@lehman.cuny.edu

Course Description and Place of Course in Program

See the Lehman Undergraduate Bulletin.

Required Material: (*Text books are on reserve at the library*)

1. **Organic Chemistry**, 7th Edition by Francis A. Carey, Publisher:McGraw-Hill.

OR

Organic Chemistry, 8th Edition by Francis A. Carey and Robert Giuliano , Publisher:McGraw-Hill.

2. **Student Solutions Manual** to Accompany Organic Chemistry: 7th Edition by Robert C. Atkins and Francis A. Carey, Publisher:McGraw-Hill

OR

8th Edition by Francis A. Carey, Neil Allison, Publisher:McGraw-Hill

Suggested Material:

- **Lecture Notes**, will be done accompanying Microsoft powerpoint presentations. These lecture presentations will be made available online via the Blackboard system. Lecture notes will be available after lectures.
- **Library:** The textbook and solutions manual are on reserve at the library. Also the following organic chemistry problem books are available at the library reserve desk:
Organic Chemistry 1 Workbook for Dummies Call # Reserve QD257 .W569 2005
3000 Solved Problems in Organic Chemistry Call # Reserve QD257 .M43 1994

Course Objectives

This continuation organic chemistry course focuses on the methods used to identify the structure of organic molecules, organic reaction mechanisms, and methods used for the synthesis of organic compounds. Topics include aromaticity, chemistry of functional groups, spectroscopy and structure elucidation with an emphasis on the application of infrared and nuclear magnetic resonance spectroscopy.

Where you can go for help: Science Learning Center (Gillet Hall, 133)

- **Mon-Thurs:** 9 - 7 pm, walk-in
- **Fri.:** 10 - 2 pm, by appointment
- **Sat.:** 10 - 2 pm, walk-in

Class Conduct

Disruptive behavior (eg. Mp3 players, use of cell phones) are not permitted. Place your cellphones in **silent mode** during class.

Exams

Two one-hour exams, will take place throughout the term. The final exam is a cumulative exam. The two one-hour exams will count **towards 55%** of your final grade and the final exam will count **towards 35%** of your final grade.

If you require extra time for written exams or other considerations because of a disability, please speak with the Office of Student Disability Services (Shuster Hall Rm 238).

Regrade Policy

- Pencil written exams will **not** be regraded.
- Students have until one week after the exam has been returned to request a regrade.
- Arithmetic errors in adding up points will be corrected immediately. Any other regrade request will cause the entire exam to be regraded; therefore, your overall score may increase or decrease.
- Late requests for re-grades will not be accepted.

NO MAKE-UP EXAMS will be given for missed exams. If an **acceptable extenuating circumstance** causes you to miss a midterm exam, the final will take the place of the missed exam and be worth **62.5%** of your grade. Students will be given seating assignments for their examinations and electronic devices (eg. Cell phones, mp3 players, calculators etc.) are **NOT** allowed.

Presentation Assignment

A 5 minute presentation on an organic compound that has been in the news recently (within the last year), or is widely used, or has some social significance. The assignment will be worth 10% of your grade. More details can be found on assignment handout.

Academic Policies

School policy towards, grades, withdrawals and incompletes can be found in the undergraduate bulletin. To summarize:

1. "The grade of W, withdrawal without penalty, is awarded only when it is clear that a student has a good and sufficient reason for withdrawing from a course and is doing so at a time when he or she is doing passing work in the course."
2. "The INC grade covers any failure to complete all requirements for a course, such as submitting a paper or taking a final examination. For an instructor to grant an INC, the student must have met the instructor's attendance requirements in the course and have a passing semester average."
3. The grading system consists of A through F.

Academic Integrity

For the college's policy towards academic integrity see the Lehman Undergraduate Bulletin. Students found cheating will be brought on charges of academic dishonesty which can result in a F in the course and even suspension or expulsion from the college.

<http://www.lehman.edu/undergraduate-bulletin/academicintegrity.htm>

Important Dates

Last day to drop classes for Fall 2011	September 15 th
NO Classes	September 28-30
No Class. Classes follow a FRIDAY schedule	October 4 th
Last day to withdraw with a grade of 'W'	November 17
Classes follow a THURSDAY schedule	November 22
Thanksgiving holiday-CAMPUS CLOSED	November 24-27

Last day of Fall 2011 classes

December 13th

Exam Dates

Midterm Exam 1 October 6th

Midterm Exam 2 November 10th

Final Exam Th, Dec. 15th 11am - 1pm

Course Schedule

Reading	Suggested Problems
Conjugation Chp 10 10.1-10.3, 10.5-10.11, 10.13, 10.15	<i>10.26, 10.27, 10.28, 10.32, 10.35, 10.39</i>
Arenes and Aromaticity Chp 11 11.1-11.8, 11.14, 11.17, 11.20-11.24	<i>11.34, 11.36, 11.43, 11.44, 11.48, 11.49, 11.52</i>
Reaction of Arenes Chp 12 12.1-12.16	<i>12.24, 12.26, 12.28, 12.29, 12.34</i>
Spectroscopy Chp 13 13.1-13.10, 13.12	<i>13.28, 13.29, 13.30, 13.41,</i>
Organometallics Chp 14 14.1-14.11, 14.14	<i>14.17, 14.19, 14.22, 14.23, 14.26</i>
Alcohols and Diols Chp 15 15.1-15.8, 15.10, 15.12	<i>15.8, 15.9, 15.24, 15.26, 15.30</i>
Ethers, Epoxides Chp 16 16.1-16.6, 16.9-16.13	<i>16.25, 16.29, 16.34</i>
Aldehydes & Ketones Ch 17 17.1-17.6, 17.8-17.13	<i>17.25, 17.26, 17.30, 17.34, 17.39, 17.43</i>
Enols and Enolates Chp 18 18.1-18.8, 18.11-18.14	<i>18.25, 18.27, 18.28, 18.33, 18.41</i>
If we have time: Amino Acids (Chp 27) and Synthetic Polymers (Chp 29)	
Final Exam	<i>Th, Dec. 15th 11am - 2pm</i>