

Organic Lecture II (CHE 234) Fall 2018

Time: Tu,Th 4:30–5:45 pm

Location: DA 337

Instructor: Prof. Naphtali O'Connor
appointment

Office Hours: Thursday 10:30-11:30 am (DA 107) and by

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

Place of Course in Program

Continuation of CHE 232. PREREQ: CHE 232. COREQ: CHE 235. 3 credits

Learning Goals

Students will utilize and learn a variety of skills which include critical thinking, quantitative reasoning and communication skills. Cooperative learning methods are employed to make students feel more comfortable in the learning environment and to develop their collaborative skills. Students also obtain a grasp of the role organic chemistry plays in life and society.

Course Objectives and Description

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.

Academic Policies and Common Misconceptions

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

- “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.”
- “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.” If a student receives an INC, they will be asked to complete the missing material (example: Final Exam). They will not be allowed to sit in on the course in a later semester and poor performances erased.
- There is NO additional material or extra credit for failing students to improve their grades.
- The grading system consists of A through F. Grades are determined by your performance on the graded materials and a grade of D cannot be changed into an F.

Class Conduct and Academic Integrity

Disruptive behavior (eg. Mp3 players, use of cell phones, conversing during lecture, eating disruptive food) are not permitted. You will be asked to stop this behavior or to leave the classroom. Place your cellphones in **silent mode** during class. All communication with the instructor must be in a professional manner. Internet equipped devices (cellphones, smart watches etc) must be turned off or on airplane mode and cannot be on your person during exams. If you are caught with an internet equipped device **on your person during the exam**, your exam will immediately be taken from you and reported as cheating.

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/lehman/about/policies_pdf/CUNYAcademicIntegrityPolicy.pdf

Required Materials and Resources

- Classroom Response and Online Homework System: Tophat.com ([Registration instructions on page 3](#))
- Organic Chemistry a Guided Inquiry; Andrei Straumanis. ISBN-10: 0-618-97412-1

BlackBoard and TopHat Resources:

- Lecture Slides
- Online video links
- Sample exams

Where you can go for help:

TA: Aanchal Tyagi (see TA for office hours, Davis 322)

Science Learning Center (Gillet Hall, 133)

Grading

The total number of points for the class is 500. A breakdown by letter grade is shown but **may be altered as needed**.

	Points	% Grade	Point Score	%Grade	Letter Grade
Midterm Exams (2 exams)	200	40% (20% per exam)	450-500	90-100	A
Final Exam	150	30%	400-445	80-89	B
Homework	50	10%	350-395	70-79	C
Attendance	25	5%	300-345	60-69	D
Recitation	75	15%	Below 300	60	F

Exams: Each one-hour exam is worth 100 points; for a total of 200.

Final Exam: The cumulative final exam is comprised of 150 points. Unless granted by the professor there are **NO MAKE-UP EXAMS** for missed midterm exams. If an acceptable extenuating circumstance causes you to miss a midterm exam, the final may take the place of the missed exam and be 250 pts (50% of your grade). Students may be given seating assignments or moved during the exam. See above for policy on internet equipped devices during exams.

Homework: Online homework will be assigned using the Tophat.com homework system. This will be worth a total of 50 pts.

Attendance: Attendance will be taken using the Tophat.com class participation system. This will account of 25 pts (5%) of your final grade.

Recitation: 75 pts (15%) of your grade will be determined by your attendance, participation and performance in recitations.

Important Dates

- Last day to withdraw from Fall 2018 classes with a grade of "W" Tuesday November 6
- Labor Day, college closed Monday September 3
- No classes scheduled Mon-Tue September 10-11
- No classes scheduled Tue-Wed September 18-19
- Columbus day, College closed Monday October 8

- **Thanksgiving Holiday**, College closed
- Last day of classes

Thu-Sun November 22-25
Wednesday December 12

Exam

<i>Midterm Exam 1</i>	Thursday, October 11	
<i>Midterm Exam 2</i>	Tuesday, November 20	
<i>Final Exam</i>		

Registering and using Tophat

You will be using your own device to give electronic responses into the classroom response system. These devices can be cellphones, laptop computers or tablets. You have the option of downloading an app onto your smartphone. You must also register to do this. To register, you need this information:

1. The 6-digit course code: 189560
2. The password: CHE234_Fall18

Create an Account

1. Go to <http://app.tophat.com/e/189560> to access the class directly (preferred) or to tophat.com and use 189560 as the course code.
2. Click to create an account (link may be at the bottom).

Enroll in this Class

1. Select this course to enroll. You will also may need to enter the password "CHE234_Fall18".
2. At this point, you will need to register/purchase your registration code.
3. Payment information will be requested at this point. Select your code choice (either 1 semester or 1-year code). The costs are:
1-semester code = \$26
4. You will also need to purchase the online textbook (\$65) which provides access to the online homework system.
5. There is an addition \$10 for Tophat test which we will be using this semester.

Course Schedule and Readings

Chapter	Topics	Sections
Chp 12	Alkenes: Addition Rxns	12.1-12.14
Chp 19	Conjugated systems	19.1-19.7
Chp 20	Aromaticity	20.1-20.4
Chp 21	Reactions of Aromatic Compounds	21.1-21.3
Chp 17	Spectroscopy: NMR	17.1-17.4
Chp 14 & 15	Alcohols and Ethers	14.3-14.6, 15.3-15.4
Chp 22	Aldehydes and Ketones	22.2-22.5
Chp 26	Enols and Enolates	26.1-26.3
Chp 24 & 25	Carboxylic Acids and Derivatives	24.3-24.5, 24.7, 24.10