

Organic Lecture I (CHE 232) Spring 2019

Time: Mon, Wed 4:30–5:45 pm

Location: DA 337

Instructor: Prof. Naphtali O'Connor

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

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

Place of Course in Program

PREREQ: CHE 168. COREQ: CHE 233. 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

First semester of a 2 semester series on organic chemistry course which 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 includes an introduction to functional groups, nomenclature, stereochemistry, substitution and addition reactions. Individuals who successfully complete this course will be able to:

- Define and employ the vocabulary of organic chemistry.
- Draw correct structural representations of organic molecules.
- Write reasonable transformations and mechanisms for alkanes, alkenes, alkynes, alkyl halides, alcohols.
- Employ stereochemical considerations when analyzing mechanisms and transformations.
- Obtain a grasp of the role organic chemistry plays in life and society.

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 and Online Textbook 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

If you are not comfortable with an online textbook and prefer a physical option, Organic Chemistry, 5th edition by Janice Gorzynski Smith (ISBN-13: 978-0078021558) is the recommended alternative.

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
Midterm Exams (2 exams)	225	45% (22.5% per exam)
Final Exam	150	30%
Homework	50	10%
Class Participation	25	5%
Recitation	50	10%

Point Score	%Grade	Letter Grade
450-500	90-100	A
400-445	80-89	B
350-395	70-79	C
300-345	60-69	D
Below 300	60	F

Exams: Each one-hour exam is worth 112.5 points; for a total of 225. This accounts for a total of 45% of your grade.

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 262.5 pts (52.5% 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 (10%).

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

Recitation: 50 pts (10%) of your grade will be determined by your attendance, participation and performance in recitations.

Important Dates

- Last day to withdraw from SPRING 2019 classes with a grade of "W" Monday April 1
- Lincoln's Birthday, college closed Tuesday February 12
- President's Day, college closed Monday February 18
- Classes follow a Monday Schedule Tuesday February 20
- Spring Recess April 19 – April 28
- Last day of SPRING 2019 classes Tuesday May 14

Exam and Quiz Dates

<i>Midterm Exam 1</i>	Wednesday, February 27
<i>Midterm Exam 2</i>	Monday April 1
<i>Final Exam</i>	Monday May 21 3:45-5:45pm

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: 337289
2. The password: CHE232_Sp2019

Create an Account

1. Go to <http://app.tophat.com/e/337289> to access the class directly (preferred) or to tophat.com and use 337289 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, "CHE 232 Spring 2019 [Organic Chemistry I]". You will also may need to enter the password "CHE232_Sp2019".
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 or 1-year code = \$38
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 1	Structure and Bonding Chp 1 <i>(some of this material covered in general chem and will not be covered in lecture)</i>	1.0-1.3
Chp 4	Acids and Bases	4.0-4.3.7
Chp 2	Alkanes and an Intro to Organic Molecules	2.0-2.4, 2.9, 2.11
Chp 5	Conformations of Acyclic Alkanes and Cyclohexanes	5.0-5.9
Chp 6	Stereochemistry	6.1-6.15
Chp 3	Chemical Reactivity and Mechanisms	3.1-3.11
Chp 7 & 8	Nucleophilic Substitution	7.0-7.6 8.0-8.4
Chp 9 & 10	Alkenes: Elimination Rxns	9.1-9.5 10.1-10.3.4 11.4-11.9, 11.11
Chp 12	Alkenes: Addition Rxns	12.1-12.5, 12.7-12.11, 12.13
Chp 13	Alkynes	13.1-13.6