HUNTER COLLEGE OF THE CITY UNIVERSITY OF NEW YORK

Department of Chemistry & Biochemistry

ESSENTIALS OF ORGANIC CHEMISTRY

Chemistry 120 *Syllabus Spring 2025*

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Instructor: Riana Green rg38@hunter.cuny.edu Office: 1319 North

Class times		
Lecture		
M, Th	10:00AM – 11:15AM	118 North

COURSE DESCRIPTION

This 3-credit, one-semester course is designed for students who do not require a full year of organic chemistry. It is commonly taken by pre-nursing and allied health students. **Please note: This course is not intended for Chemistry majors or pre-med students.**

The course presents essential facts, laws, and theories of organic chemistry, incorporating active learning techniques and web-enhanced learning opportunities. The primary goals are to develop students' problem-solving skills in organic chemistry, teach the key definitions and concepts needed to predict chemical processes, and assess students' understanding of basic chemical principles.

Classroom Materials

TopHat

This course requires the use of Top Hat, a classroom engagement tool that will be essential for your success in this class. While Top Hat will not function as a textbook, it will provide access to a variety of learning resources, including links to a free textbook from OpenStax, lecture notes, and recaps written by the professor to help reinforce your understanding of the material.

How to Join the Course

1. **Create a Top Hat Account:**
    - Visit the Top Hat sign-up page and create an account using your Hunter College email address.
    - After creating your account, you'll be prompted to join your course by entering a join code. Use the code below to join the course:
    - **Join Code: 622909**
2. **Purchase a Top Hat Subscription:**
    - Acccess to the Top Hat platform is now now free when using your CUNY email, however, our class requires access to the chemistry drawing platform that may tequire you to pay additional $5
    - You will be prompted to purchase access to Top Hat after entering your join code.
3. **Top Hat Setup:**
    - **Accessibility:** Top Hat can be accessed on your computer via an internet browser (Google Chrome is recommended) or on your mobile device through the Top Hat app, available in the Google Play Store and Apple App Store.

Top Hat Support

For assistance, you can visit the Top Hat Overview within the Top Hat Success Center, which provides a guide on registering and getting started with Top Hat.

If you need further help, contact Top Hat's Support Team via:

- **Email:** support@tophat.com
- **In-App Support Button**
- **Phone:** 1-888-663-5491

Please have your specific user information ready when troubleshooting issues.

Aktiv

This semester, we will primarily use the Aktiv platform for homework assignments. Instructions on how to join the platform have been sent to you via Brightspace. To access the course materials on Aktiv, use the join code **5854V8**.

Key Points:

- **Homework Assignments:** Aktiv is the platform for all your homework assignments. You will have unlimited attempts to complete each assignment, but please note that no extensions will be granted.
- **Adaptive Follow-Up Practice:** Each homework assignment on Aktiv will include an optional adaptive follow-up. This follow-up is designed to provide additional practice on the material. While it's a great tool to reinforce your understanding, it is not mandatory and does not count towards your grade.

Please make sure to regularly check Aktiv and complete the assignments on time to stay on track with the course.

Supplementary textbooks

Although not required, you may find the following texts useful in further understanding on the topics covered in class:

- **Fundamentals of General, Organic, and Biological Chemistry** (8th edition or higher)
  - McMurry, Ballantine, Hoeger, & Peterson ISBN-13: 978-0134015187
- **Essential Organic Chemistry** (3rd edition or higher)
  - Paula Yurkanis Bruice ISBN-13: 978-0321937711
- **Organic Chemistry as a Second Language: First and Second semester topics**
  - by David Klein ISBN-13: 978-1119110668

Organic chemistry is noticeably different from other science classes. Here are some resources to help you:

- Harvard's 7 Tips to Survive Organic Chemistry
- How to get an A in Organic Chemistry

- How to take good notes for Organic Chemistry

Brightspace

Brightspace will serve as the primary platform for official communication, grade tracking, and important course announcements. It is essential that you keep your contact information up to date in Brightspace to ensure you receive all critical updates and messages.

Key Points:

- **Course Announcements:** Important information and updates regarding the course will be communicated through Brightspace. Make it a habit to check the platform frequently to avoid missing any crucial details.
- **Communication:** Brightspace will be the main source of communication between the instructor and students. Ensure your notifications are set up correctly so you don't miss any messages.
- **Official Grades:** All official grades will be posted on Brightspace. Please check regularly to stay informed about your academic progress. Note that grades displayed on Top Hat and Aktiv are not official; they reflect a running total and may not account for the grading rubric, such as the top 15 assignments, extra credit, or non-mandatory activities.
- **Learning Materials:** While Brightspace will handle administrative tasks and grade postings, all learning materials, including lectures and practice problems, will be hosted on Top Hat.

By regularly monitoring Brightspace, you'll stay informed and up-to-date with everything you need to succeed in this course.

GradeWiz

This semester, we will be using GradeWiz, an AI-based handwriting recognition software that helps streamline the grading process. While GradeWiz assists with organizing and processing your exam submissions, all grading is still performed by your instructor to ensure accuracy and fairness.

Key Points:

- **Course Code:** To join the course on GradeWiz, use the code **izd4vl**.
- **Account Creation:** Create your account and join the course using the provided code. You will use your Hunter College EMPL ID as your unique identifier.
- **Using Your EMPL ID:** Your EMPL ID is essential for grading purposes and must be included on all exams when prompted. Without it, your grading cannot be processed.
- **Feedback and Notifications:** Grades will be posted promptly on GradeWiz, and you will receive notifications when they are available. If you believe there is an error, you can submit a regrade request directly through the platform.

By following these steps, you can ensure a smooth grading process and receive timely feedback on your performance.

OneNote

We will be using OneNote for real-time notetaking during lectures. This digital notebook will be shared with all students, allowing you to follow along with the lectures as they happen and keep an organized record of course content.

Key Points:

- **Real-Time Access:** OneNote allows you to access and update your notes in real-time during lectures, ensuring that you can keep up with the material as it is presented.
- **Shareable Notebook:** The OneNote notebook will be shareable, giving you the ability to review, annotate, and collaborate on lecture notes with your classmates.

- **Access:** The link to the OneNote notebook can be found on Top Hat. Make sure to access it before the first lecture to familiarize yourself with the setup.

Using OneNote will help you stay organized and engaged throughout the course, providing a valuable resource for studying and reviewing lecture material.

Discord

To stay connected with your classmates and instructors, we have a designated Discord channel for this course. This platform is a great way to engage with current students, as well as former students who have taken the class and are available to offer guidance and answer questions.

Key Points:

- **In-Class Discussions:** During lectures, you can use Discord to participate in real-time discussions. This allows for a more interactive learning experience and gives you the opportunity to engage with both peers and instructors.
- **Homework and Exam Preparation:** The Discord channel is also a valuable resource for asking questions about homework, lecture notes, and exam preparation. Feel free to seek help and share insights with your classmates.
- **Respect and Proper Protocol:** When using Discord, it's important to follow proper protocol:
    - **Be Respectful:** Always be considerate and respectful in your interactions. This is a collaborative space, and everyone should feel comfortable participating.
    - **Use Proper Channels:** Ensure you're using the appropriate channels within the Discord server for your conversations (e.g., lecture discussions, homework help, general questions).
    - **Adhere to Guidelines:** Violating the guidelines may result in disciplinary action, including the possibility of being banned from the channel.

By maintaining a positive and respectful environment on Discord, we can create a supportive community where everyone can thrive academically.

Nursing program Discord channel:

A Discord server has been created by a former CHEM 120 student, who is now a current nursing student and peer instructor, Leon Zheng. This server is designed to support Hunter students, especially those interested in the Generic or A2D (Accelerated 2nd Degree) nursing programs. It's a great place for students to connect, make friends, and collaborate on course-related or general questions.

Key Features:

- **Community Building:** Meet and interact with fellow students, whether you're in the nursing program or taking courses like CHEM 100 and 120.
- **Course Support:** Use the server to ask general or course-specific questions and receive assistance from peers.
- **Tutoring Resources:** The server also includes resources for students receiving tutoring, with organized categories for easy navigation and access to materials.

This Discord server is a valuable resource to enhance your academic experience and connect with the broader Hunter student community.

Joining Discord Channels:

- The link to join the Discord channels will be available on Top Hat. Make sure to access it and join the communities as soon as possible.

COURSE LEARNING OUTCOMES:

Course Learning Outcomes

Upon successful completion of this course, students can aim for the following outcomes:

1. **Develop Critical Thinking:** Cultivate the critical thinking skills necessary for success in science classes and the medical field.
2. **Knowledge of Hydrocarbons:** Gain sufficient knowledge of alkanes, alkenes, alkynes, and aromatic compounds.
3. **Functional Group Identification:** Ability to distinguish different oxygen-, halogen-, and nitrogen-containing functional groups and understand their properties.
4. **Reaction Prediction:** Recognize various types of chemical reactions and predict the products from the provided starting materials.
5. **Stereochemistry:** Identify stereogenic centers and determine their orientation.
6. **Mechanism and Arrow-Pushing:** Understand reaction mechanisms and apply arrow-pushing formalism to illustrate electron movement.
7. **Synthesis:** Develop skills in synthesizing organic compounds using learned reactions and strategies.
8. **Physical Property Interpretation:** Analyze and compare the physical properties of compounds, such as melting and boiling points, to understand the underlying structural reasons for these differences.
9. **Biochemical Structures:** Gain sufficient knowledge of biochemical structures such as carbohydrates, proteins, and lipids.
10. **Build Confidence in Organic Chemistry:** Develop the confidence to approach and solve complex organic chemistry problems, applying learned concepts with assurance.

GRADING:

Your final grade in this course will be determined by the following components:

1. **Recitation Participation (5%)**

   Active participation in recitation sessions is crucial. Attendance is mandatory, and your engagement during these sessions will be assessed. These low-stakes sessions are an opportunity to collaborate with your peers and deepen your understanding of the course material. Each session will focus on applying lecture concepts through problem-solving. The grading is designed as Pass/Fail

2. **Pre- and Post-Lecture Reading Assignments (5%)**

   Reading assignments, both pre- and post-lecture, are designed to prepare you for in-class discussions and reinforce your understanding of the material. Pre-lecture assignments will be available on TopHat three days before each lecture, while post-lecture assignments will be released immediately after the lecture. All assignments are due before the next lecture. Consistent completion of these assignments is essential to earning full credit for this portion of your grade. Please note that extensions will not be granted. However, extra credit opportunities may be offered throughout the semester to help compensate for any missed assignments or to improve your grade.

3. **Aktiv Homework Performance (20%)**

   Throughout the semester, you will complete 27 assignments on the Aktiv platform. Of these, only your top 20 scores will count toward this portion of your grade. These assignments are designed to reinforce lecture material and improve your problem-solving skills. Please note that no extensions will be granted, so it's important to stay consistent and submit your work on time.

4. **Asynchronous Topics (5%)**

   This portion of your grade is based on your engagement with asynchronous materials, such as video lectures or online discussions, which complement the topics covered in class. Throughout the semester, there will be **four asynchronous assignments** designed to deepen your understanding of key topics. These assignments will also be released on

TopHat one week before their due date, giving you sufficient time to complete and engage with the material. Staying on schedule is critical, as these assignments contribute to your final grade.

5. **Quizzes (10%)**

   Bi-weekly quizzes will be administered, focusing on material covered in recent lectures. These quizzes encourage consistent study habits and provide early feedback on your understanding of key concepts. Out of the 6 quizzes given throughout the semester, only your top 5 scores will count toward your final grade, offering some flexibility in case of an off day.

6. **Exams (35%)**

   Four exams will be administered during the semester, with only the top three scores counting toward your final grade. The lowest exam score will be dropped, providing a safety net if you have an off day. Exams will cover material from lectures, readings, and recitations.

7. **Final Exam (20%)**

   The final exam is comprehensive, covering all material discussed throughout the semester. It will account for 20% of your final grade. This exam is your opportunity to demonstrate a thorough understanding of organic chemistry concepts, so make sure to review all course materials carefully.

Summary of Grading Components:

- Recitation Participation: 5%
- Pre- and Post-Lecture Reading Assignments: 5%
- Aktiv Homework Performance: 20%
- Asynchronous Topics: 5%
- Quizzes: 10%
- Exams (Top 3 of 4, 11.67% each): 35%
- Final Exam: 20%

Total: 100%

Important Notes:

- Grades displayed on Aktiv and TopHat are not the official grades, as they calculate running totals. The official course grade will be based on the components listed above and will be posted on Brightspace.

Grade Scale:

Grade	Percentage	Explanation	Quality Points
A+	97.5-100%	Exceptional	4.0
A	92.5-97.4%	Excellent	4.0
A-	90-92.4%	Excellent	3.7
B+	87.5-89.9%	Good	3.3
B	82.5-87.4%	Good	3.0
B-	80-82.4%	Good	2.7
C+	77.5-79.9%	Satisfactory	2.3
C	72.5-77.4%	Satisfactory	2.0
C-	70-72.4%	Satisfactory	1.7
D+	67-69.9%	Passing	1.3
D	62.5-66.9%	Passing	1.0
D-	60-62.4%	Passing	0.7
F	0-59.9%	Failure	0.0

Notes:

- **No Curving:** There is no curving in this class. Your grade will be based on the performance metrics outlined above.
- **Extra Credit Opportunities:**
    - **Exam Extra Credit:** Each exam offers up to 10 extra credit points, with 5 points available for participation and 5 points for accuracy during in-class activities.
    - **End-of-Semester Extra Credit:** At the end of the semester, you can earn an additional 2% extra credit, which may help boost your final grade (e.g., from a B- to a B).

CR/NC Grade:

There is **no Credit/No Credit (CR/NC)** option offered for this course. The last day to withdraw from the course with a grade of "W" is April 1st.

Incomplete Grade (INC):

An Incomplete (INC) grade is given when a student has completed most of the course and has a reasonable chance of passing but is unable to complete the course due to a valid reason**. An INC grade cannot be considered before the third exam has been completed**. To be eligible for an INC, students must provide verifiable proof of their reason and complete the remaining coursework by the end of the following semester. Please note that most incomplete grades convert to a failing grade (FINC) by the end of the next semester if the work is not completed, so an INC should be considered a last resort.

Unofficial Withdrawal (WU):

A grade of Unofficial Withdrawal (WU) is given if a student completes the coursework but does not take the final exam. A WU grade does not impact the student's GPA punitively and indicates the student's unofficial withdrawal from the class.

Academic Integrity:

Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

CLASS POLICY

1. **Class Attendance:**
    - Attendance is not mandatory; however, students are strongly encouraged to attend lectures to fully grasp the material and take advantage of the opportunity to earn extra credit through class participation.
    - Class participation is geo-tagged, meaning only students who are physically present in the classroom can earn participation credit.
2. **Lecture Notes and Recordings:**
    - During lectures, we will collaboratively draft our own lecture notes using Microsoft OneNote. These notes will be synced in real-time and continuously accessible to all students, allowing you to make your own annotations.
    - All lectures will be recorded and shared via Top Hat. If you miss a class, you can access the recording to stay caught up with the course material.
3. **Class Participation:**
    - Participation in class is rewarded with extra credit. By engaging in in-class assignments via TopHat, students can earn up to 5 points of extra credit towards their upcoming exam. Remember, participation credit is only available to those present in class due to the geo-tagging feature.
4. **Classroom Conduct:**
    - **There is zero tolerance for disruptions during class.** Any student who disrupts the class will be asked to leave immediately, and the lecture will pause until the disturbance is fully resolved. Please be aware that any class time lost due to disruptions will not be made up, and students will be responsible for self-learning any material missed during this time. Maintaining a respectful and focused environment is essential for everyone's learning experience, and it is crucial that all students contribute to creating a productive classroom atmosphere.

EXAMINATION POLICIES

1. **In-Person Exams:**
    - Exams will start promptly at the scheduled class time. If you arrive late, you will not be given extra time to complete the exam, regardless of the circumstances.
2. **EMPL ID Requirement:**
    - All students must use their unique EMPL ID when taking exams. This ID is required for your exam to be graded. Without it, grading cannot be processed.
3. **No Make-Up Exams:**
    - The lowest exam grade will be dropped. This policy allows you to miss one of the four exams without any repercussions. However, the final exam is mandatory and cannot be dropped.
    - If you are unable to attend an exam due to a verified medical absence, you may replace the missed exam with your final exam grade, provided you submit a valid doctor's note.
4. **Missed Exams:**
    - No excuses will be accepted for missing more than one of the four exams. Missing more than one exam will result in an F for the course.
5. **Cheating and Academic Integrity:**
    - **Academic Integrity is paramount in this course.** Cheating on any exam will result in an automatic disciplinary F for the course. Hunter College's policy on academic integrity will be strictly enforced.
6. **Cheat Sheets:**
    - **Regular Exams:** Students are allowed to bring one double-sided page of handwritten notes to each exam. There is no limit on the content, size, or format, as long as the notes are handwritten and not duplicate of another student.
    - **Final Exam:** For the final exam, students may bring up to three double-sided cheat sheets. These can be the original ones from previous exams or newly created, but they must remain handwritten.

- Digital devices such as iPads or tablets may be used to create handwritten notes, but a printed version must be brought to the exam.

7. **Exam Grading:**
   - If you attend all four exams (or have a valid medical excuse for missing one), your lowest exam grade will be dropped and replaced by the average of the other three.
8. **Exam Format:**
   - **Regular Exams:**
     - **Short Response:** 10 questions that require brief, written answers.
     - **Reaction Questions:** 10 questions testing knowledge of reagents, predicting products, or identifying starting materials based on provided information.
     - **Free Response:** 5 questions requiring more detailed written responses, varying in format and depth based on the material covered.
   - **Multiple Versions:** Multiple versions of the exam will be used to prevent cheating, ensuring academic integrity.
   - **Final Exam:**
     - The final exam will consist of 60 multiple-choice questions and 2 free response questions, with a total duration of 2 hours.

RECITATION

1. **Recitation Overview**

   Recitation sessions are designed to reinforce and expand upon lecture material through group problem-solving activities, presentations, and collaborative discussions. These sessions aim to deepen your understanding of organic chemistry concepts while fostering collaboration and active engagement.

2. **Attendance Policy**

   Attendance in recitation sessions is mandatory. However, students are allowed **2 absences** during the semester. Missing more than 2 sessions without a valid excuse will negatively impact your grade. Active participation in recitations is critical to your success in the course and will prepare you for exams.

3. **Group Presentations**

   At the beginning of each recitation, the instructor will assign students to groups for that day's presentation. Groups are not fixed and will vary weekly, allowing you to collaborate with different classmates and build connections. Each session will feature four group presentations.

   - **Audience Responsibility**: If you are not chosen to present on a given day, you are still expected to complete the assigned work, follow the presentations, and actively contribute to discussions. Your participation as an audience member will be graded. Failure to engage meaningfully as an audience member will negatively affect your recitation grade.

4. **Individual Grading**

   Students will be graded individually, whether presenting or participating as audience members. Grading will include:

   - **As Presenters**:
     - **Initial Discussion**: Your contribution to planning and discussing the assigned problem.
     - **Collaboration**: How effectively you work with your group.
     - **Presentation**: The clarity, accuracy, and quality of your explanation.

- **As Audience Members**:
    - **Engagement**: Active listening, asking thoughtful questions, and contributing to the discussion.

Every student is expected to contribute meaningfully in both roles. Attempting to rely solely on peers, or failing to engage as an audience member, will result in a failed grade.

5. **Preparation and Conduct**

- **Preparation**: Recitation materials will be available 24 hours before class. Students are expected to review these materials beforehand, as there will be limited time for preparation during class. This structure mimics exam-like conditions and fosters efficient problem-solving skills.
- **Classroom Conduct**: Any disruptive behavior, including talking, using your phone, or otherwise distracting from the session, will result in an automatic **failure for the day**. Maintaining a respectful and focused environment is critical for everyone's learning experience.

6. **Peer Instructor Support**

   Peer instructors, who are former students of this course, will be present during recitation sessions to provide guidance and support. They are a valuable resource for clarifying concepts and helping improve your performance.

7. **Low-Stakes Activity**

   Recitations are designed to be low-pressure environments to build your confidence in organic chemistry. If you find yourself struggling, use this opportunity to identify areas for improvement and adjust your study habits. Performance in recitation serves as a learning experience rather than a strict predictor of your overall course success.

8. **Research Study Participation (Optional)**

   This semester, we are conducting a research study to evaluate the impact of this recitation format on student performance and engagement. Participation is voluntary and involves completing two surveys, observation during recitation sessions, and providing access to grades and attendance records.

Your decision to participate will have no impact on your grades or standing with the University. Detailed information about the study is available on Brightspace under the "Research Study Participation" section.

Office hours

1. Instructor office hours

I will be holding office hours three times a week: two sessions in person and one session online via Zoom. During these sessions, you are welcome to ask any questions related to the material covered in class or during recitation.

Office Hours Schedule:

- **In-Person Office Hours:**
  - **Monday:** 12:00 PM - 2:00 PM in Room 1319B North
  - **Wednesday:** 12:00 PM - 2:00 PM in Room 1319B North
- **Online Office Hours:**
  - **Friday:** 6:00 PM - 8:00 PM via Zoom
  - This time is subject to change based on student preference. If you have a preferred time for the online office hours, please let me know.

Additional Information:

- **Question Guidelines:** I cannot answer questions on material that has an active due date. However, we can discuss anything else in detail.
- **Attendance:** While attendance during office hours is not mandatory, it is strongly encouraged as it provides an opportunity to deepen your understanding of the course material.

- **Notes Sharing:** Notes from office hours will be shared via the OneNote app for your reference.

2. Peer-lead Instructor office hours

In addition to my office hours, former students of CHEM 120 will be offering their own office hours, both in person and online. These sessions are a great opportunity to go over any course material, ask for study suggestions, or get advice on course organization from students who have successfully completed the course.

Key Points:

- **Purpose:** Peer-led office hours are designed to provide additional support and insights from students who have already navigated CHEM 120.
- **Scheduling:** The schedule for peer-led office hours will be shared at a later time. Please stay tuned for updates.

This additional resource is intended to help you succeed in the course by offering multiple perspectives and strategies for mastering the material.

ADA

In compliance with the ADA and Section 504 of the Rehabilitation Act, Hunter College is committed to ensuring educational access and accommodations for all registered students. Students with disabilities or medical conditions are encouraged to register with the Office of AccessABILITY to receive the necessary assistance and accommodations.
For more information or to schedule an appointment, please contact the Office of AccessABILITY:

- **Location:** Room E1214
- **Phone:** (212) 772-4857

- **TTY:** (212) 650-3230
- **Website:** Office of AccessABILITY

If you are registered with the Office of AccessABILITY, **please make sure to reserve your time for each exam through their office.**

Spring 2025 Lecture Schedule at a glance:

Class Times: Mondays and Thursdays, 10:00 AM - 11:15 AM

Class Location: Room 118 North

First Class: January 27, 2025

Last Lecture: May 15, 2025

Final Exam (Tentative): May 22, 2025

Important Dates:

- **Quiz 1**: Released February 03, 2025| Due February 10, 2025
- **Exam 1**: February 13, 2025
- **No Class: February 17, 2025**
- **February 18 – Monday schedule**
- **Quiz 2**: Released February 20, 2025 | Due February 27, 2025
- **No Class: March 6, 2025**
- **Exam 2**: March 10, 2025
- **Quiz 3:** Released March 20, 2025 | Due March 27, 2025
- **Exam 3**: April 3, 2025
- **Quiz 4**: Released April 10, 2025 | Due April 24, 2025
- **No Class (Spring break): April 14 - 17, 2025**
- **Exam 4**: May 1, 2025
- **Quiz 5**: Released May 8, 2025 | Due May 22, 2025
- **Final Exam** (Tentative): May 22, 2025

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Detailed lecture schedule and due dates

Date	Lecture	Day	Topic	Due dates
01 – 27	0	M	Introduction to the course	
ASYNC	1		Hybridization	01 – 30
01 – 30	2	T	Bonding and structure	
02 – 03	3	M	Introduction to alkanes	Quiz 1 is released
02 – 06	4	T	Stereochemistry	
ASYNC	5		Intro to arrow pushing	02 – 10
02 – 10	6	M	Reaction of alkanes	
02 – 13		T	**Exam 1**	Covers Lectures 1 – 6
ASYNC	7		**Resonance**	02 – 20
02 – 17		M	**No Class**	
02 – 18	8	**Tue**	Mon Sched: Intro to alkene	
02 – 20	9	T	Reactions I	Quiz 2 is released
02 – 24	10	M	Reactions II	
02 – 27	11	T	Aromaticity	
03 – 03	12	M	Reactions with aromaticity	
03 – 06		T	**No Class**	
03 – 10		M	**Exam 2**	Covers Lectures 7 – 12
03 – 13	13	T	Organohalides – SN2	
03 – 17	14	M	Organohalides – E2	
03 – 20	15	T	Organohalides – SN1/E1	Quiz 3 is released
ASYNC	16		SNE review and practice	02 – 27
03 – 24	17	M	Alcohols and phenols	
03 – 27	18	T	Alcohol reactions	
03 – 31		M	**No Class**	
04 – 03		T	**Exam 3**	Covers Lectures 13 – 18
04 – 07	19	M	Aldehydes and Ketones	
04 – 10	20	T	Nucleophilic addition to aldehydes and ketones	Quiz 4 is released
ASYNC	21		ARIO	04 – 21
04 – 14		M	**No Class**	
04 – 17		T	**No Class**	
04 – 21	22	M	Intro to Carboxylic acids	
04 – 24	23	T	Carboxylic acid derivatives I	
04 – 28	24	M	Carboxylic acid derivatives II	
05 – 01		T	**Exam 4**	Covers Lectures 19 – 24

05 – 05	25	M	Lipids	
ASYNC	26		Amino acids	05 – 12
05 – 08	27	T	Carbohydrates	Quiz 5 is released
05 – 12	28	M	Proteins	
ASYNC	29		Enzymes	05 – 20
05 – 15	30	T	Biochem review	
05 – 22		**T**	**Final Exam (Tentative)**	**Comprehensive**

Tentative Recitation schedule

Each recitation is released 24 hours prior to class time. Prepare ahead of time by watching lecture recordings and recapping notes from class.

Week	Date	Day	Topic	Lectures to review
1	01/25	MWT	No recitation	
2	02/03	MWT	Hybridization	
3	02/10	MWT	No recitation	
4	02/17	MWT	Exam 1 review	1 – 6
5	02/24	MWT	Alkene and resonance	7 – 8
6	03/03	MW	Alkene reactions	9 – 10
		T	**No class** – self study	
7	03/10	MWT	Exam 2 review	7 – 12
8	03/17	MWT	Biomolecular reactions	13 – 14
9	03/24	MWT	SNE reactions	13 – 16
10	03/31	MW	**No class** – self study	13 – 18
		T	Exam 3 review	
11	04/07	MW	Exam 3 review	13-18
		T	Aldehydes and ketones	19 – 20
12	04/14	MWT	**No class** – self study	19 – 20
13	04/21	MWT	ARIO	21
14	04/28	MWT	CA and CAD	22 – 24
15	O5/05	MWT	Exam 4 review	19 – 24
16	05/12	MWT	Biochemistry	25 – 28