COURSE NUMBER: 1489

UCONN
UNIVERSITY OF CONNECTICUT

Organic Chemistry: CHEM 2241-001
Department of Chemistry

Syllabus – Spring 2023

Excluding materials for purchase, syllabus information may be subject to change. The most up-to-date syllabus is located within the course in HuskyCT.

Program Information

Enrollment Requirements: CHEM 1122 or 1124 or 1127 or 1137 or 1147. May not be taken out of sequence after passing CHEM 2443.

Course and Instructor Information

Course Title: Organic Chemistry
Credits: # 3
Format: In person
Prerequisites: Any one of the following courses: CHEM 1122 or 1124 or 1127 or 1137 or 1147.

Professor: Anwar Beshir
Email: anwar.beshir@uconn.edu (preferred method of contact)
Telephone: 860-486-6610 (office)
Office: CHEM A-210
Office Hours/Availability: **MWF 9:15 – 10:15 AM** or by appointment
Please go to (https://nexus.uconn.edu) → student sign-in → net id and password → schedule appointment → search by department → Chemistry → Choose person → Beshir, Anwar

Lecture: MWF 8:00-8:50 AM in SCI 1 G01.

I will go over main points, give examples and do practice problems. You are expected to come to class prepared. Watch pre-lecture video and read sections from textbook before you come to class.

- ***You are expected to be able to solve problems related to topics from pre-lecture video and sections of your textbook.***
- ***You will do class activities individually first then in group. You are expected to participate and contribute to the group activity.***

Weekly review sessions: will be given on **Fridays 3:00 – 4:30 PM in MCHU 201**. Topics covered during the week will be reviewed using examples and practice questions.

Course Materials

Required course materials should be obtained before the first day of class.

Textbook – https://app.tophat.com/e/543472/. Join Code is 543472. ***ISBN:*** **9781774946367**

Optional Materials:
Item 1. Molecular visions Organic Model kit, **ISBN:** *9780964883710.*

Additional course readings and media are available within HuskyCT, through an Internet link.

Course Website

- Course material will be available on the course's HuskyCT website. To access the website login at http://learn.uconn.edu using your Net ID and password. The link to the course website will be under "Course List" as "CHEM 2241 - Organic Chemistry-SEC001-1233.

Course Description

An abridged course in organic chemistry designed to provide a background for related fields in which a general rather than a detailed knowledge of the compounds of carbon is required

Course Objectives

By the end of the semester, students should be able to:

To study the structure and reactivity of the major classes of organic compounds, and to develop the skills to solve elementary problems in organic chemistry. Upon completing the course, students will have the ability to analyze simple organic reactions and predict the outcome of reactions, even ones that have not explicitly been discussed.

Course Outline

We will be covering most chapters from Top Hat. See reading list for details.

Course Requirements and Grading

Summary of Course Grading:

Course Components	Points
Class activity	100
Homework	50
Assignments	50
Weekly quizzes	100
Three Exams	300
Final	200
TOTAL	**800**

Class activity

Class activities will be given for each chapter during lecture. Each activity will address one or more objectives of a chapter and it is worth **05 pts**. (2 pts. for individual and 3 pts. for group work). There will be **one make up** at the end of the semester if you miss class activity for acceptable reason. List of objectives will be provided for each chapter.

Homework

Each chapter will have online homework provided by Top Hat. Lowest three homework grades will be dropped but you have to complete each homework. **No make-up**, and due dates will not be extended for individual students.

Quizzes

Weekly quizzes will be given on huskyCT every **Wednesday** from **8:00-8:10 AM** except during exam week. Each quiz is worth **10 pts**. Quizzes are not cumulative.
There will be **one cumulative make-up quiz at the end of the semester** for all students who missed any of the ten quizzes for acceptable reason.

Extra quiz will be given at the end of the semester to replace the lowest quiz grade.

- Students approved for double time will start weekly quizzes at **7:50 AM or can take quizzes at CSD after class.**

Assignments:

Assignment 1 will be given after completing chapter 13, and assignment 2 is based on chapter 16 (IR spectroscopy).

Exams: will be given on **Fridays** during lecture time **8:00 – 8:50 AM. No make-up.**

Exam reviews: will be given on **Tuesdays 5:00 – 6:30 PM. (exam week) in Room PBB 129.**

Final Exam review: will be given on **Friday April 28th, 3:00 – 5:00 PM.**

	Review session	EXAM DTAE	COVERAGE: Lectures from
EXAM 1	Feb 07th	Feb 10th	**Jan 17th – Feb 03rd**
EXAM 2	March 07th	March 10th	**Feb 06th – March 03rd**
EXAM 3	April 11th	April 14th	**March 10th – April 07th**
FINAL	April 28th	Finals week (TBA)	**Cumulative**

- **CSD students should schedule exams with CSD office at least a week before exam date.**

Grading Scale:

(%)	Letter Grade
93.0-100.0%	A
90.0-92.99%	A-
87.0-89.99%	B+
83.0-86.99%	B
80.0-82.99%	B-
74.0-79.99%	C+
66.0-73.99%	C
60.0-65.99%	C-
57.0-59.99%	D+
53.0-56.99%	D
50.0-52.99%	D-
0.00-49.99%	F

The instructor reserves the right to offer final grade modifiers (in favor of students) to the entire class using objective criteria as desired at any time during the course. Should additional modifiers be invoked, they will be announced during regularly scheduled lectures.

Extra credit:

You will be given unannounced extra credit opportunities (worth ~**3%** (**24 pts.**) of total grade) in class. You will not get credit if you miss more than two of the extra credits offered. You get maximum ~**2%** (**16 pts**.) if you miss one, and **1% (8 pts.)** if you miss two. **No make-up** for missed extra credit.

Due Dates and Late Policy

All course due dates are identified in the course website, syllabus, Top Hat and/or on specific work assigned. Deadlines are based on Eastern Time; if you are in a different time zone, please adjust your submittal times accordingly. ***The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.***

Feedback and Grades
I will make every effort to provide feedback and grades in 72 hours. To keep track of your performance in the course, refer to My Grades in HuskyCT.

Weekly Time Commitment
You should expect to dedicate minimum of 9-12 hours a week to this course. This expectation is based on the various course activities, assignments, and the University of Connecticut's policy regarding credit hours. More information related to hours per week per credit can be accessed at the Online Student website.

Assessment
Most assessments will be done online (huskyCT and Top Hat). **You need to bring a working computer/tablet** to every lecture to do class activity, quiz, exam, and extra credit.

Student Responsibilities and Resources

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important standards, policies and resources, which include:

- The Student Code
  - Academic Integrity
  - Resources on Avoiding Cheating and Plagiarism
- Copyrighted Materials
- Credit Hours and Workload
- Netiquette and Communication
- Adding or Dropping a Course
- Academic Calendar
- Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships
- Sexual Assault Reporting Policy

- Attendance at lectures is expected. You are responsible for **announcements** and **all material presented in lecture including, worksheets for class activity, slides and relevant sections in the textbook. You are expected to watch pre-lecture videos and read sections in the textbook before you come to lecture.**

- **Copyright:** My lectures, lecture notes, study guides and assessments are protected by state and federal copyright laws. Students are authorized to use the resources for their own personal use. You are not authorized to record my lectures, discussions, weekly reviews sessions and office hours. Posting of any of my materials including, pre-lecture video, lecture notes, handouts, exams, quizzes and assignments to any website and social media site violates this policy.

Students with Disabilities

The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from Blackboard's website).

Software/Technical Requirements (with Accessibility and Privacy Information)

The software/technical requirements for this course include:

- HuskyCT/Blackboard (HuskyCT/ Blackboard Accessibility Statement, HuskyCT/ Blackboard Privacy Policy)
- Adobe Acrobat Reader (Adobe Reader Accessibility Statement, Adobe Reader Privacy Policy)
- Google Apps (Google Apps Accessibility, Google for Education Privacy Policy)
- Microsoft Office (free to UConn students through uconn.onthehub.com) (Microsoft Accessibility Statement, Microsoft Privacy Statement)
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- Webcam
- **Lockdown browser**

For information on managing your privacy at the University of Connecticut, visit the University's Privacy page.

NOTE: This course has NOT been designed for use with mobile devices.

Help

Technical and Academic Help provides a guide to technical and academic assistance.
This course is completely facilitated online using the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the Help Center. You also have 24x7 Course Support including access to live chat, phone, and support documents.

Minimum Technical Skills

To be successful in this course, you will need the following technical skills:
Use electronic mail with attachments.

- Save files in commonly used word processing program formats.
- Copy and paste text, graphics or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.

University students are expected to demonstrate competency in Computer Technology. Explore the Computer Technology Competencies page for more information.

Evaluation of the Course

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the Office of Institutional Research and Effectiveness (OIRE).

Safety:

For your safety during lectures, office hours and review sessions, you are expected to follow university COVID-19 guidelines. https://covid.uconn.edu/campus-guidelines#

Reading List from Top hat Organic Chemistry I and II

Chapter	Topics	Reading assignment*
CH-1	Electronic Structures and Bonding.	
CH-2	Nomenclature	
CH-3	Chemical reactivity and mechanisms	
CH-4	Acids and Bases	
CH-5	Conformation of acyclic alkanes and cyclohexanes	
CH-6	Stereochemistry	
CH-7	Substitution reaction, S_N2 Reactions	
CH-8	S_N1 reactions and distinguishing the differences between S_N1 and S_N2 reactions	
CH-9	E1 reactions to form alkenes	
CH-10	E2 reactions to form alkenes	
CH-12	Alkenes	
CH-13	Alkynes	
CH-14	Alcohols and oxiranes	
CH-15	Ethers	
CH-16	IR spectroscopy and Mass spectrometry	
CH-19	Conjugated systems, orbital symmetry, and UV-Vis spectroscopy	
CH-21	Reactions of aromatic compounds	
CH-22	Aldehydes, ketones, and their aromatic derivatives	
CH-23	Amines	
CH-25	Carboxylic acid derivatives	
CH-28	Biomolecules	

*Reading assignments are highlighted on E-textbook.