

## CHEM 2323-Fundamentals of Organic Chemistry, Fall 2024

Section 11287, T/Th, 10:00 – 11:30 AM, F 160

Section 11290, T/Th, 1:00 – 2:30 PM, F 160

**Disclaimer:** The Instructor has the authority to alter this syllabus in the case of weather events, university power outages, pandemics, or any other event that requires the university to close.

Dr. Mary Bean

**Office:** 318 STL

**Office Hours:** Mon./Wed.: 1-3:00 PM, T/Th 2:30-3:30 PM, or by appointment at other times

Office phone: (713) 743-8552 – I prefer email.

**Email address:** [mbean3@uh.edu](mailto:mbean3@uh.edu) **ALWAYS give your REAL name, course (organic lecture or lab), and 5-digit section number.** Other rules for email will be discussed on the first class day.

If you don't want me to address you by your first name in my reply to your email, please sign your email with your preferred title (Ms., Mrs., Mr., etc). Feel free to indicate your preferred pronoun.

**When I need to communicate with the whole class,** I will use your uh.edu email address not your cougarnet.uh.edu address.

**Students with ADA Accommodations:** If you require assistance under the Americans with Disabilities Act guidelines, please discuss your accommodations with me **in person** within the first two weeks of class.

**Textbook:** Organic Chemistry, 10<sup>th</sup> edition, by John McMurry

This textbook is available free through Openstax here:

[https://openstax.org/details/books/organic-chemistry?Book%20details&utm\\_campaign&utm\\_source&utm\\_medium&utm\\_content&utm\\_term](https://openstax.org/details/books/organic-chemistry?Book%20details&utm_campaign&utm_source&utm_medium&utm_content&utm_term)

**Solutions Manual for McMurry** - Available at the url below. This will download as a Zipped folder where every chapter is a separate PDF file.

[https://assets.openstax.org/oscms-prodcms/media/documents/OrgChem\\_SSM\\_NoOx7Bq.zip?\\_gl=1\\*12rseiz\\*\\_ga\\*MjYwODc5MDUzLjE3MDkyMjg3NTQ.\\*\\_ga\\_T746F8B0QC\\*MTcwOTIyODc1NC4xLjEuMTcwOTIyOTU4Ni41LjAuMA..;KioqKio!!LkSTIj0!!C\\_tKgbIMsfUChJde8UE2FVvIRI3IaZoKUcYQAWIbCO5FAq4Nz4WvWHXsSQ-IYI8Es0V0JdFONBQ2mliF\\$&corid=a89a7ae3-c9f4-f78f-dbd8-ed5b9d64668a](https://assets.openstax.org/oscms-prodcms/media/documents/OrgChem_SSM_NoOx7Bq.zip?_gl=1*12rseiz*_ga*MjYwODc5MDUzLjE3MDkyMjg3NTQ.*_ga_T746F8B0QC*MTcwOTIyODc1NC4xLjEuMTcwOTIyOTU4Ni41LjAuMA..;KioqKio!!LkSTIj0!!C_tKgbIMsfUChJde8UE2FVvIRI3IaZoKUcYQAWIbCO5FAq4Nz4WvWHXsSQ-IYI8Es0V0JdFONBQ2mliF$&corid=a89a7ae3-c9f4-f78f-dbd8-ed5b9d64668a)

**Required notes:** Copies of the “slides” used in class must be downloaded from our class webpage: <https://uh.edu/nsm/chemistry/people/profiles/mary-bean/chem2323/>

These copies do not represent a complete set of notes. You are expected to add details and important information during class. Taking notes will be difficult without these copies. If you miss class or need a set of notes for any other reason, you must get the notes from your “Notes Partner”. (more information on first day of class)

**Strongly Suggested:** Molecular Models (Wait to purchase until discussed in class.)

**Grades:**

Important Note: There is no extra credit of any kind available in this course.

### 3 Evening Exams

The lowest exam grade will be dropped. If you miss an exam, that exam will be the grade dropped.

**Total Weight of Course Grade: 60% (average of the two highest exams)**

### EXAM SCHEDULE:

Friday, September 20, 7:00-8:30 PM

Friday, October 18, 7:00-8:30 PM

Friday, November 15, 7:00-8:30 PM

### **FINAL EXAM (CUMULATIVE):**

**Wednesday, December 4, 12-2:00 pm**

**Total Weight of Final Grade: 40%**

**Material Covered:** The information below gives the McMurry sections or chapter equivalent for each chapter of notes found on the class webpage.

<u>DATES</u>	<u>Notes Chapter = McMurry Sections or Chapter</u>
Aug. 20,22	Chapter 1 = 1.1-1.4, 1.12, 2.1-2.11 (Atoms and Molecules)
Aug. 27,29	Chapter 2 = 1.5-1.11, 2.12 (Bonding)
Sept. 3,5,10	Chapter 3 = Chapter 3 and 4 (Alkanes and Cycloalkanes)
Sept. 12,17	Chapter 4 = 6.1-6.3, 6.7-6.10, 7.9-7.10, 10.2 (Tools to Study Reactions)
<b>Sept. 20</b>	<b>EXAM ONE: Chapters 1-4</b>
Sept. 19,24	Chapter 5 = Chapter 5 (Stereochemistry)
Sept. 26, Oct. 1,3	Chapter 6 = 7.11, 10.1-10.4, Chapter 11 (Alkyl Halides: Nucleophilic Substitution and Elimination)
Oct. 8,10	Chapter 7 = Chapter 7 (Structure and Synthesis of Alkenes)
Oct. 15,17,22	Chapter 8 = Chapter 8 (Reactions of Alkenes)
<b>Oct. 18</b>	<b>EXAM TWO: Chapters 5-8 (partial)</b>
Oct. 24,29	Chapter 9 = Chapter 9 (Alkynes)
Oct. 31, Nov. 5	Chapter 10 = 17.1 – 17.5 (Structure and Synthesis of Alcohols)
Nov. 7,12	Chapter 11 = 17.6- 17.7 (Reactions of Alcohols) 17.11 (Spectroscopy of alcohols – useful after Chapters 12 and 13)
Nov. 14,19	Chapter 12 = Chapter 12 (Infrared Spectroscopy)
<b>Nov. 15</b>	<b>EXAM THREE: Chapters 8 (partial) - 11</b>

Nov. 21,26 Chapter 13 = Chapter 13 (Nuclear Magnetic Resonance Spectroscopy)

Nov. 27-30 Thanksgiving Holiday

**Wed., Dec. 4** **FINAL EXAM: CHAPTERS 1-13**  
**(12-2:00 PM)**

NOTE: The material covered on each exam may be revised if necessary.

Homework: Although homework is not a part of the grade, students are strongly advised to work problems within the text of each chapter and at the end of each chapter. Work them with the Solutions Manual CLOSED.

Quizzes: Quizzes are posted on the class webpage. These are provided for extra practice. At the end of every class, a relevant quiz will be announced and a class email will be sent the day before the next class. A few quiz problems will be worked at the beginning of each class. It is to your benefit to work the entire quiz **before** class.

Other Important Dates:

Sept. 4 Last day to drop without receiving a grade AND Last day to drop without hours counting toward enrollment cap for Texas residents

**Nov. 20 Last day to drop a course with a "W"**

Other Notes:

1. Students **may not** be concurrently enrolled in any of the following classes: CHEM 2323, CHEM1311, CHEM1312, CHEM 2325.
2. CHEM 1312 is a prerequisite for CHEM 2323.
3. To receive credit at graduation for CHEM 2323, students must have credit for CHEM 2123.
4. All drops are the responsibility of the student.
5. I cannot assign a grade of "W" after November 20. Please do not ask.
6. The grade "I" (Incomplete) is defined by University policies. I strictly adhere to the definition. An Incomplete is not a "do-over." You must be passing to receive an "I" for defined reasons.
7. The **UH Academic Honesty Policy** is strictly enforced. Violators will be prosecuted to the extent allowed by the University. All **exams are scanned before returning to students!**
8. **There are no extra assignments or extra credit in organic courses, so there is no reason to ask.**

UNIVERSITY OF HOUSTON SYLLABUS LANGUAGE: 2024-2025

**Required Language for All Courses**

Mental Health and Wellness Resources

The University of Houston has a number of resources to support students' mental health and overall wellness, including [CoogsCARE](#) and the [UH Go App](#). UH [Counseling and Psychological Services \(CAPS\)](#) offers 24/7 mental health support for all students, addressing various concerns like stress, college adjustment and sadness. CAPS provides individual and couples counseling, group therapy, workshops and connections to other support services on and off-campus. For assistance visit [uh.edu/caps](http://uh.edu/caps), call 713-743-5454, or visit a [Let's Talk](#) location in-person or virtually. [Let's Talk](#) are daily, informal confidential consultations with CAPS therapists where no appointment or paperwork is needed.

**Need Support Now?**

**If you or someone you know is struggling or in crisis, help is available. Call CAPS crisis support 24/7 at 713-743-5454, or the National Suicide and Crisis Lifeline: call or text [988](https://www.988lifeline.org), or chat [988lifeline.org](https://www.988lifeline.org).**

#### Title IX/Sexual Misconduct

Per the UHS Sexual Misconduct Policy, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and state law and must report incidents of sexual misconduct (sexual harassment, non-consensual sexual contact, sexual assault, sexual exploitation, sexual intimidation, intimate partner violence, or stalking) about which they become aware to the Title IX office. Please know there are places on campus where you can make a report in confidence. You can find more information about resources on the Title IX website at <https://uh.edu/equal-opportunity/title-ix-sexual-misconduct/resources/>.

#### Reasonable Academic Adjustments/Auxiliary Aids

The University of Houston is committed to providing an academic environment and educational programs that are accessible for its students. Any student with a disability who is experiencing barriers to learning, assessment or participation is encouraged to contact the Justin Dart, Jr. Student Accessibility Center (Dart Center) to learn more about academic accommodations and support that may be available to them. Students seeking academic accommodations will need to register with the Dart Center as soon as possible to ensure timely implementation of approved accommodations. Please contact the Dart Center by visiting the website: <https://uh.edu/accessibility/> calling (713) 743-5400, or emailing [jdcenter@Central.UH.EDU](mailto:jdcenter@Central.UH.EDU).

The [Student Health Center](#) offers a Psychiatry Clinic for enrolled UH students. Call 713-743-5149 during clinic hours, Monday through Friday 8 a.m. - 4:30 p.m. to schedule an appointment.

The [A.D. Bruce Religion Center](#) offers spiritual support and a variety of programs centered on well-being.

The [Center for Student Advocacy and Community \(CSAC\)](#) is where you can go if you need help but don't know where to start. CSAC is a “home away from home” and serves as a [resource hub](#) to help you get the resources needed to support academic and personal success. Through our [Cougar Cupboard](#), all students can get up to 30 lbs of FREE groceries a week. Additionally, we provide 1:1 appointments to get you connected to on- and off-campus resources related to essential needs, safety and advocacy, and more. The [Cougar Closet](#) is a registered student organization advised by our office and offers free clothes to students so that all Coogs can feel good in their fit. We also host a series of cultural and community-based events that fosters social connection and helps the cougar community come closer together. Visit the CSAC homepage or follow us on Instagram: @uh\_CSAC and @uhcupbrd. YOU belong here.

#### Women and Gender Resource Center

The mission of the [WGRC](#) is to advance the University of Houston and promote the success of all students, faculty, and staff through educating, empowering, and supporting the UH community. The WGRC suite is open to you. Stop by the office for a study space, to take a break, grab a snack, or check out one of the WGRC programs or resources. Stop by Student Center South room B12 (Basement floor near Starbucks and down the hall from Creation Station) from 9 am to 5 pm Monday through Friday.

### Academic Honesty Policy

High ethical standards are critical to the integrity of any institution, and bear directly on the ultimate value of conferred degrees. All UH community members are expected to contribute to an atmosphere of the highest possible ethical standards. Maintaining such an atmosphere requires that any instances of academic dishonesty be recognized and addressed. The [UH Academic Honesty Policy](#) is designed to handle those instances with fairness to all parties involved: the students, the instructors, and the University itself. All students and faculty of the University of Houston are responsible for being familiar with this policy.

### Excused Absence Policy

Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences may be excused as provided in the University of Houston [Undergraduate Excused Absence Policy](#) and [Graduate Excused Absence Policy](#) for reasons including: medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Under these policies, students with excused absences will be provided with an opportunity to make up any quiz, exam or other work that contributes to the course grade or a satisfactory alternative. Please read the full policy for details regarding reasons for excused absences, the approval process, and extended absences. Additional policies address absences related to [military service](#), [religious holy days](#), [pregnancy and related conditions](#), and [disability](#).

### Recording of Class

Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor. If you have or think you may have a disability such that you need to record class-related activities, please contact the [Justin Dart, Jr. Student Accessibility Center](#). If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this course or not, or with any other person or on any other platform. Classes may be recorded by the instructor. Students may use instructor's recordings for their own studying and notetaking. Instructor's recordings are not authorized to be shared with anyone without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.

## **Recommended Language and Guidance (use as appropriate for class content and format)**

### Resources for Online Learning

The University of Houston is committed to student success, and provides information to optimize the online learning experience through our [Power-On](#) website. Please visit this website for a comprehensive set of resources, tools, and tips including: obtaining access to the internet, AccessUH, Blackboard, and Canvas; using your smartphone as a webcam; and downloading Microsoft Office 365 at no cost. For questions or assistance contact [UHOnline@uh.edu](mailto:UHOnline@uh.edu).

### Security Escorts and Cougar Ride

UHPD continually works with the University community to make the campus a safe place to learn, work, and live. The security escort service is designed for the community members who have safety concerns and would like to have a Security Officer walk with them, for their safety, as they make their way across campus. Based on availability either a UHPD Security Officer or Police Officer will escort students, faculty, and staff to

locations beginning and ending on campus. If you feel that you need a Security Officer to walk with you for your safety, please call [713-743-3333](tel:713-743-3333). Arrangements may be made for special needs.

Parking and Transportation Services also offers a late-night, on-demand shuttle service called "Cougar Ride" that provides rides to and from all on-campus shuttle stops, as well as the MD Anderson Library, Cougar Village/Moody Towers and the UH Technology Bridge. Rides can be requested through the UH Go app. Days and hours of operation can be found at <https://uh.edu/af-university-services/parking/cougar-ride/>.

#### Syllabus Changes

Please note that the instructor may need to make modifications to the course syllabus. Notice of such changes will be announced as quickly as possible through *{specify how students will be notified of changes}*.