Course Syllabus

Introductory Organic Chemistry II – Spring 2025 (CHEM 2325)

Course Information

Course Prefix, Number, Section	*CHEM 2325*
Course Title	*Introductory Organic Chemistry II*
Term	*Spring 25*
Days & Times	*Tuesday & Thursday 2:30 pm – 3:45 pm (SLC 2.303)*

Professor Contact Information

Professor	*Filippo Romiti*
Office Phone	*972-883-4717*
Other Phone	*–*
Email Address	*filippo.romiti@utdallas.edu*
Office Location	*NSERL 2.712*
Office Hours	*Wednesday 2:00 pm – 3:00 pm (NSERL 2.712)* *Exceptionally, upon appointment via MS Teams or in-person if the student has other class during office hours*

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Introductory Organic Chem I (CHEM 2323)

Course Description

This course is a continuation of Introductory Organic Chemistry I CHEM 2323. Students who complete this course acquire the ability to analyze and predict spectra of organic compounds. They will be able to evaluate aromaticity of compounds and comprehend the reactivity of aromatic compounds. They will also be capable of critically analyzing the reactivity and properties of carbonyl-containing compounds. Learning organic chemistry requires dedication and hard work. This course traditionally does not reward the student who chooses to cram before the exams. Students should aim to keep up with the material on a daily basis and to read the chapters before they are covered in class. Students are strongly encouraged to do the suggested problems as we cover each chapter. Seek help if a concept is causing difficulties. Re-reading the lecture materials after we cover them in class to reinforce the concepts is highly recommended. Importantly, this is not a memorization course. The course instead favors the students who can apply the information and concepts learned to new examples. Some memorization is required; however, merely memorizing a certain reaction will not be sufficient and will only not allow to deeply understand organic chemistry. Understanding why the reaction occurs will enable the students to see the bigger picture. Finally, always remember that the properties of organic molecules are determined by the location of electrons.

Student Learning Objectives/Outcomes

Upon completing this course students will be able to: 1) analyze unknown organic compounds through spectroscopy and to predict the spectra of known organic compounds; 2) assess aromaticity of organic compounds and to predict the reactivity of

aromatic compounds; 3) predict the reactivity of various functional groups, including carbonyl compounds, and to construct simple and efficient routes for the preparation of desired organic compounds; 4) have a better understanding of the mechanism of organic reactions.

Required Textbooks and Materials

Required Texts
L.G. Wade, Jr., "Organic Chemistry", 9th edition, 2020

Suggested Course Materials

Suggested Readings/Texts
Solution manual to textbook.

Suggested Materials
Molecular model kit.

Assignments & Academic Calendar

Date	Topic	Chapter
January 21	Introduction / IR Spectroscopy	12
January 23		
January 28	Mass Spectroscopy	12
January 30		
February 4	^{1}H and ^{13}C NMR	13
February 6	**Quiz 1**	12–13
February 11	Alcohols	11
February 13		
February 18	Review	11–13
February 19, 8:30–10:00 pm	**Exam 1**	11–13
February 20	Ethers and Epoxides	14
February 25	Conjugated Systems	15
February 27		
March 4	Aromatic Compounds	16
March 6		
March 11	Aromatic Compounds and their Reactions	16–17
March 13	**Quiz 2**	14–17

March 18	Spring break	–
March 20		
March 25	Reactions of Aromatic Compounds	17
March 27		
April 1	Review	14–17
April 2, 8:30–10:00 pm	**Exam 2**	14–17
April 3	Aldehydes and Ketones	18
April 8	Amines	19
April 10		
April 15	Carboxylic Acids	20
April 17	**Quiz 3**	18–20
April 22	Carboxylic Acid Derivatives	21
April 24		
April 29	Enols and Enolates	22
May 1	**Quiz 4**	21–22
May 6	Review	11–22
May 8		
TBA	**Final Exam**	11–22

Grading Policy

Grades will be determined from a combination of 4 quizzes, 2 exams, and a final exam. The lowest exam grade can be substituted with the final exam (by percentage). The lowest quiz grade can also be substituted with the average quiz grade.

Exams	2 x 250	500 points
Quizzes	4 x 50	200 points
Final exam	1 x 300	300 points
Total		1000 points

Letter Grade	Points
A+	900 – 1000
A	800 – 899
A–	760 – 799
B+	700 – 759
B	650 – 699

B–	600 – 649
C+	550 – 599
C	500 – 549
C–	450 – 499
D+	400 – 449
D	350 – 399
F	<350

Course Policies

Make-up exams

There will be no make-up exams or quizzes except for documented circumstances. If a student misses either an exam or quiz, then that missed grade will be counted as their dropped exam/quiz.

Class Materials

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course; however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Class Information

Quizzes are given in the first 30 minutes of class or will be specified by the instructor.
Exams are given outside class time on the days listed in the syllabus.
Attendance will be taken at all exams, be sure to bring your Comet Card.
All re-grades for exams and quizzes must be turned in within one week. Keys for tests will be posted in eLearning. Practice quizzes and exams will be placed in e-learning approximately one week before the actual quiz or exam.

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Classroom Citizenship

See class information, class recording, and student code of conduct sections.

Course Resources

Chemistry Clinic

Chemistry Clinic offers in-person office hours Monday through Friday and it is located in the Berkner building. Students can walk in and attend office hours offered by chemistry clinic leaders, graduate TAs and faculty.
Room: BE 3.502
Hours: Monday – Friday 9:00 am – 5:00 pm
For more information: https://chemistry.utdallas.edu/chemclinic/

Peer Led Team Learning (PLTL)

PLTL is a cohort-style academic support program for chemistry, math, and physics subjects. Sessions are designed to encourage problem-solving strategies in pairs and in groups. It is run through the Student Success Center. Registration is required. If you sign-up for a session, attendance is required every week. Visit the PLTL webpage (https://studentsuccess.utdallas.edu/programs/peer-led-team-learning/) and follow the Instructions for Registration. If you have any additional questions, please email pltl@utdallas.edu.

Supplemental Instructions (SI)

Quizzes Supplemental Instruction (SI) is offered for this course. SI sessions are collaborative group study sessions, scheduled two times per week. Sessions are facilitated by an SI Leader, who has taken the course and received a high final grade. Attendance is voluntary. For information about the days, times, and locations for SI sessions, refer to
http://www.utdallas.edu/studentsuccess/help-with-courses/supplemental-instruction/.
www.utdallas.edu/studentsuccess/leaders/si.html.

Tutoring

Students Tutoring is available for organic chemistry through the Student Success Center. center has drop-in times during the week for one-on-one tutoring. The center has drop-in times during the week for one-on-one tutoring. See the schedule for organic chemistry at www.utdallas.edu/studentsuccess/leaders/tutoring.html.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students.

Please see http://go.utdallas.edu/academic-support-resources.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the catalog sections regarding the credit/no credit or pass/fail grading option and withdrawal from class.

Please go to http://go.utdallas.edu/syllabus-policies for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.