Course	**CHEM 2323.001 Organic Chemistry I**
Professor	Dr. Sumudu Nelukshi Wijenayake
Term	Fall 2024
Meetings	T/R 8:30 - 9:45 am, SLC 2.303

Professor's Contact Information

Office Phone	972-883-2906
Office Location	BE 3.330
Email Address	Sumudu.wijenayake@utdallas.edu
Office Hours	Tue 10 -11 am, Fri 9-10 am in BE 3.330
Recitation	Friday 6:30-7:30 pm (via Bb Collaborate-will discuss posted recitation problems)
Lecture TA	Nitish Kumar Deo (nitishkumar.deo@utdallas.edu)
Lecture TA Office Hours	Mon 9-10 am, Fri 10 -11 am in BE 3.502

General Course Information

Pre-requisites, Co-requisites, & other restrictions	CHEM 1312 General Chemistry II
Course Description	This course is designed to provide an overview of fundamental organic chemistry for science majors. Students who successfully complete this course will acquire an integrated understanding of molecular structure, molecular transformations, reaction energetics and mechanisms, synthetic strategy, and structure determination. Tests and quizzes are strictly individual assessments. For tests students will only use a periodic table, molecular model kit and pen/pencil and paper to work problems. This is not a course where you can 'cram' for an exam or skim over PP slides. Students do better once they learn how to visualize organic molecules in 3D. To this end, a molecular model kit is recommended to assist in this visualization. Organic chemistry is not a memorization course. While some memorization is necessary, the purpose of this course is to teach you the underlying principles that drive an organic reaction. Once these principles are understood a student will be able to predict the outcome of fundamental organic reactions. Before attending the lectures, everyone should, read the posted class notes and browse through the book chapter being discussed. I also suggest that you watch the pre-recorded lectures. After each lecture, work through recitation problems and practice test questions posted on eLearning. Also, do some problems from each chapter in the textbook.
Learning Outcomes	Upon completing this class, students will: • Be able to predict bonding and three-dimensional structure, including chiralty, and to analyze properties of this 3-D structure of organic compounds. • Be able to compare reactivity amongst a series of organic compounds. • Be able to predict reactivity of specific functional groups and to construct simple and efficient routes for the preparation of desired organic compounds.
Required Texts & Materials	L.G. Wade, Jr., "Organic Chemistry", 9th edition, 2017
Recommended Materials	Molecular model kit, Free ranking app to practice ranking questions https://ochemrank.com/study?

Assignments & Academic Calendar
[Topics, Reading Assignments, Due Dates, Exam Dates]

Date		Topic	Chapter
Aug 20	22	Introduction	1
27	29	Introduction, Structure and Bonding	1, 2
Sep 3	5	Structure and Bonding, Alkanes	2,3
10	12	Alkanes, Stereochemistry	3
17	19	Stereochemistry	5
	Sep 18	**Quiz 1 (8:30 -9:00 pm)**	
24		Review	
	Sep 25	**Test 1 - Chapters 1, 2, 3 and 5 (8:30 -10 pm)**	
	26	Chemical Reactions	4
Oct 1	3	Chemical reactions, Nucleophilic Substitutions (S_N2)	4,6
8	10	Nucleophilic Substitutions (S_{N2}, S_{N1},)	6
15	17	Nucleophilic Substitutions and Elimination Reactions (S_N1/E1/E2), Alkenes	6,7
	Oct 16	**Quiz 2 (8:30 -9:00 pm)**	
22		Review	
	Oct 23	**Test 2 - Chapters 4, 6 and 7 (8:30 -10 pm)**	
	24	Reactions of Alkenes	8
29	31	Reactions of Alkenes	8
Nov 5	7	Reactions of Alkynes	9
12	14	Reactions of Alkynes/Alcohols	9,10
	Nov 20	**Quiz 3 (8:30 -9:00 pm)**	
19	21	Alcohols, Review	10
	Nov 27	**Quiz 4 (8:30 -9:00 pm)**	
Dec 3	5	Review	
		FINAL TBA (Chapters 1 to 10)	

The tests will be in person and the quizzes will be online.

Course Policies

Grading (credit) Criteria

Grades will be determined from a combination of 4 quizzes, 2 tests, and a final exam. The lowest test grade can be substituted with the final exam (by percentage). The lowest quiz grade will be dropped and the grades of other three quizzes will be averaged.

Tests	2 x 250	500 points
Quizzes	4 x 50	200 points
Final Test	1x300	300 points
Total		1000 points

900 – 1000 = A+	700 – 759 = B+	550 – 599 = C+	400 – 449 = D+
800 – 899 = A	650 – 699 = B	500 – 549 = C	350 – 399 = D
760 – 799 = A-	600 – 649 = B-	450 – 499 = C-	<350 = F

Make-up Exams

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

Class Information

Quizzes will be online, can be accessed through eLearning. You will have 30 minutes to complete the quiz after you started. The time window is **Wed 8:30-9:00 pm**, central time on the given days). Please note that if you miss the time, it will be considered as your drop quiz. These quizzes are designed to help you learn the material and these will assist you to do the tests well. The quizzes are open book. However, due to the limited time, you need to study the material and prepare well to do the quizzes well.

Tests are given outside class time on the days listed in the syllabus.
Attendance will be taken at all tests, be sure to bring your Comet Card.
All re-grades for tests and quizzes must be turned in within one week of taking the quiz or test.
Keys for tests will be posted in eLearning.
Practice quizzes and tests will be placed in e-learning approximately at-least one week before the actual quiz or test.
Video or audio recording of the lectures is not allowed.

Chemistry Clinic

Chemistry Clinic offers in-person office hours Monday through Friday and it is located in the Berkner building (BE).
Students can walk in and attend office hours offered by undergraduate tutors, graduate TAs and faculty.

Room: BE 3.502
Hours: Monday - Friday 9.00 am - 6.00 pm
For more information: https://chemistry.utdallas.edu/chemclinic/

Peer Led Team Learning (PLTL)

What is PLTL?

- 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.

More Details

	• Visit the PLTL webpage and follow the Instructions for Registration in CourseBook (PDF) • Questions? Email PLTL@utdallas.edu
Supplemental Instruction (SI)	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	Tutoring is available for organic chemistry through the Student Success Center. The center has dropin times during the week for one-on-one tutoring. See the schedule for organic chemistry at www.utdallas.edu/studentsuccess/leaders/tutoring.html.
University Policies	For more University policies please see: *UT Dallas Syllabus Policies and Procedures* webpage

Other helpful student resources

https://www.utdallas.edu/covid/students-families-info/student-resources

How to manage procrastination https://counseling.utdallas.edu/procrastination

How to manage exam anxiety https://counseling.utdallas.edu/testanxiety

Stress management https://counseling.utdallas.edu/stress

These descriptions and timelines are subject to change at the discretion of the Professor.