Course	**CHEM 2325 – OU1 Organic Chemistry II**
Professor	Dr. John Sibert
Term	Summer 2021
Meetings	MWF 2:30 PM to 3:45 PM (Online)

Contact Information

Office Phone	972 883-2918
Office Location	BE 3.520
Email Address	sibertj@utdallas.edu
Office Hours	M, 4:00 to 5:00 pm; Th, 11:00 to 12:00 PM (Blackboard Collaborate)
TA	Somayeh Taslimy
Peer Tutoring	Student Success Center: https://studentsuccess.utdallas.edu/programs/peer-tutoring/

General Course Information

Pre-requisites, Co-requisites, & other restrictions	General Chemistry I, II and Organic Chemistry I
Course Description	This course is a continuation of Organic Chemistry I, CHEM 2323. Students who successfully complete this course acquire the ability to analyze and predict spectra of organic compounds, assess aromaticity of compounds and the reactivity of aromatic compounds, and to analyze the reactivity and properties of carbonyl-containing compounds. To learn organic chemistry requires dedication on the part of the student. I have designed this class with a clear structure – you should not view this course as self-paced. Organic Chemistry requires consistent, frequent study. Thus, I have constructed an environment in which you will learn lecture-by-lecture with clear expectations as to what you will need to do and by when. (See the accompanying "Summary of the Course" document for the appropriate pacing and study strategies.) Seek help if a concept is causing difficulties. The purpose of this course is to learn how organic molecules are characterized and the underlying basic principles that drive an organic reaction, allowing for both the explanation and prediction of chemical reactions. Some memorization is mandatory, but merely memorizing a certain reaction will only allow you to see a small part of organic chemistry. Understanding why the reaction occurs will enable you to see the bigger picture, appreciate what you are learning and retain the knowledge gained for future courses and standardized professional/graduate school exams.
Learning Outcomes	Upon completing this class, students will • Be able to predict the reactivity of a variety of classes of organic compounds, including alcohols, amines, epoxides, aromatics, and carbonyl containing reactants. • Be able to interpret spectral data of small organic molecules. • 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" 8th edition (hard copy or eBook).
Optional Texts, Readings, & Materials	1. Solutions manual 2. For review of Organic Chemistry I Foundations: "Organic Chemistry I as a Second Language" by David R. Klein 3. Molecular model sets.

Course Policies

Course Evaluation	(i) Midterm Exams (5 x 15%) 75% (ii) Final Exam 15%* (ii) Quizzes (Completion/Spot Graded) 10% Grading is on a traditional 10 point scale (i.e. 90 - 100 = A- to A+, 80 – 89 = B- to B+, etc.) ***Note: The final exam grade will replace your lowest regular exam grade if higher.**
Exams and Quizzes	**Exam Process**: • Exams are given during our class period. At 2:30 PM on exam days (see the Schedule), I will post the exam on eLearning with an accompanying announcement by email that it is ready for you to start. • You may complete the assignment by either printing the document (preferred!) or using your own paper and scrolling through the questions on screen. • You are to submit the exam to a class dedicated email address: chem2325@utdallas.edu by 4:00 PM. Do not email it to me directly. Make sure your name is on it! This means that you will need to scan the assignment. There are many free, easy-to-use, scanning apps, if you don't own an actual scanner. Please use your UTD email address for all correspondence. • While exams are open note and open book, you may not use additional resources or collaborate with anyone else. • ***There will be no makeup exams given.*** **Quizzes**: Quizzes will post on eLearning with an accompanying email from me letting you know that they are available. Each quiz is to be downloaded, completed, scanned and sent to chem2325@utdallas.edu by the specified due date and time. They will have a clearly marked due date/time by which you need to submit using the same process as for exams. They are graded for completion/logical answers with a select question or two spot-graded. Your lowest quiz grade will be dropped at the end of the semester. **Homework**: Homework will be assigned as end-of-chapter exercises and posted (with keys) on our eLearning page. Homework is not graded but is the most important activity for exam preparation. **Final Exam:** • Comprehensive • A higher final exam score will automatically replace the lowest of the 5 exam scores, if one of the latter five exam scores is lower than the final exam score. • The final exam must be taken and cannot be replaced by any other grade, so don't miss it • The date and time of the Final Exam is determined by the University (not me) and will be communicated in early June. I will update the syllabus and notify the class when I learn that information.
Make-up Exams	There are **no make-up exams or quizzes**. If a student misses one exam, the final exam will replace it. If two exams are missed, then one of the recorded exam scores will be zero.
Extra Credit	There is **no extra credit**.
Class Attendance	***Your attendance (and participation/engagement) is CRITICAL for your ultimate performance in this course*!** Lectures will be given using Blackboard Collaborate,

	accessed through our eLearning page. This course will have synchronous (M, W, F) lectures that are recorded for asynchronous viewing. Students may enter the lecture "room" 15 minutes before each lecture begins (2:30 PM CST). I strongly recommend that you adopt the format of this course as a M, W and F (2:30 to 3:45 PM) live lecture and attend consistently at that time. Activities such as watching recorded lectures, attending/participating in online office hours will not be used as part of grading for the course.

Course Access and Navigation	This course is accessed using your UT Dallas netID account on the eLearning website. Please see the course access and navigation section of the Getting Started with eLearning webpage for more information. To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage. UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The eLearning Support Center includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.
Communication	This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and Blackboard Collaborate, a web conferencing tool, will also be used during the semester. For more details, please visit the Student eLearning Tutorials webpage for video demonstrations on eLearning tools.
Distance Learning Student Resources	Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students webpage for more information.

Other Assistance	There are other resources available to you through the Student Success Center (SSC). You can learn more about these programs and the SSC at the following website: https://www.utdallas.edu/studentsuccess/ Additional University academic support resources for all students can be found at the Academic Support Resources webpage.
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: http://go.utdallas.edu/syllabus-policies Policies covered include: student conduct and discipline, academic integrity, copyright notice, email use, student grievance procedures, and religious holy days. Some additional information regarding some of these topics is included in related sections below.
Academic Integrity	The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work. *Academic Dishonesty:* Academic dishonesty can occur in relation to any type of work submitted for academic credit or as a requirement for a class. It can include individual work or a group project. Academic dishonesty includes plagiarism, cheating, fabrication, and collaboration/collusion. In order to avoid academic dishonesty, it is important for students to fully understand the expectations of their professors. This is

	best accomplished through asking clarifying questions if an individual does not completely understand the requirements of an assignment. Additional information related to academic dishonesty and tips on how to avoid dishonesty may be found here: https://www.utdallas.edu/conduct/dishonesty/.
Email Use	My policy in this class is to ***only*** communicate using your UT Dallas email address. If you experience any problems with your UTD account, you may send an email to: assist@utdallas.edu or call the UTD Computer Helpdesk at 972-883-2911.
Withdrawal from Class	The administration at UT Dallas has established deadlines for withdrawal from any course. These dates and times are published in the Comet Calendar (http://www.utdallas.edu/calendar) and in the Academic Calendar (http://www.utdallas.edu/academiccalendar). It is the student's responsibility to handle withdrawal requirements from any class. In other words, a professor or another instructor cannot drop or withdraw any student unless there is an administrative drop such as the following: • Not meeting the prerequisites for a specific course • Not satisfying the academic probationary requirements, resulting in suspension • An Office of Community Standards and Conduct request • Not making appropriate tuition and fee payments • Enrollment is in violation of academic policy • Not admitted for the term in which they registered It is the student's responsibility to complete and submit the appropriate forms to the Registrar's Office and ensure that he or she will not receive a final grade of "F" in a course if he or she chooses not to attend the class after being enrolled.
Incomplete Grades	As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.
Office of Student AccessAbility (OSA)	It is the policy and practice of UT Dallas to make reasonable accommodations for students with properly documented disabilities. If you are a student with a disability and believe you will need academic accommodations for this class, you are encouraged to register with the Office of Student AccessAbility (OSA). Some aspects of the course, the assignments, the in-class activities, and the way the course is typically taught may be accommodated to facilitate your participation and progress. OSA will assist you in determining academic accommodations that are appropriate for your situation. Any information you provide is private and confidential and will be treated as such. To avoid any delay, please contact OSA as soon as possible. Please note that accommodations are not retroactive, and disability accommodations cannot be provided until an OSA Letter of Accommodation has been given to the instructor. Students who have questions about receiving accommodations, or those who have, or think they may have, a disability (mobility, sensory, health, psychological, learning, etc.) are invited to contact OSA for a confidential discussion. OSA is located in the Administration Building, AD 2.224 They can be reached by phone at 972-883-2098, or by email at studentaccess@utdallas.edu

Class Recordings

The instructor may record meetings of this course. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. 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. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

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.

Schedule

Class Period	Day	Date	Topic	Chapter
1	Mon	May 24	Intro, Course Structure, Org. Chem. 1 Review	
2	Wed	May 26	IR Spectroscopy	12
3	Fri	May 28	Mass Spectrometry	12
	Mon	May 31	Memorial Day – **NO CLASS**	
4	Wed	June 2	Proton NMR Spectroscopy	13
5	Fri	June 4	Proton NMR Spectroscopy	13
6	Mon	June 7	Carbon NMR Spectroscopy	13
7	Wed	June 9	**EXAM 1**	
8	Fri	June 11	Reactions of Alcohols	11
9	Mon	June 14	Reactions of Alcohols/Ethers	11
10	Wed	June 16	Ethers	14
11	Fri	June 18	Conjugated Systems	15
12	Mon	June 21	Conjugated Systems	15 (1-12)
13	Wed	June 23	**EXAM 2**	
14	Fri	June 25	UV-Vis Spectroscopy/Aromatic Systems	15(13,14),16
15	Mon	June 28	Aromatic Systems	16
16	Wed	June 30	Aromatic Systems/Reactions of Aromatics	16,17
17	Fri	July 2	Reactions of Aromatics	17
18	Mon	July 5	Reactions of Aromatics	17
19	Wed	July 7	**EXAM 3**	
20	Fri	July 9	Ketones and Aldehydes	18
21	Mon	July 12	Ketones and Aldehydes	18
22	Wed	July 14	Amines	19
23	Fri	July 16	Amines	19
24	Mon	July 19	**EXAM 4**	
25	Wed	July 21	Carboxylic Acids	20
26	Fri	July 23	Carboxylic Acids, Carboxylic Acid Derivatives	20,21
27	Mon	July 26	Carboxylic Acid Derivatives	21
28	Wed	July 28	Enols and Enolates	22
29	Fri	July 30	Enols and Enolates	22
30	Mon	Aug 2	**EXAM 5**	
31	Wed	Aug 4	Final Exam Review	
	Fri	Aug 6	**FINAL EXAM** (2:00 PM to 4:45 PM)	11-22

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