

CHEM 2370.001: Organic Chemistry

Summer 2020, University of North Texas, Denton

Lecture: online/remote

(May 11, 2020 – July 03, 2020)

Instructor

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Office Hours: Friday at 9.00 am

Other times by appointment made through email

Course Objectives: Learn the principal concepts related to:

- ❖ The correlation between properties of functional groups and molecules and intermolecular forces
- ❖ The structures, properties, and nomenclature of organic molecules. How to identify, classify, and name the three-dimensional arrangement of atoms and molecules
- ❖ The step-by-step processes of a chemical reaction, reaction mechanism. How to plan the synthesis of any organic molecule.
- ❖ Tools for the identification of functional groups and for the determination of connections between the atoms in molecules

Course content:

The CHEM 2370.001 is the first of introductory undergraduate organic chemistry curriculum at UNT. The course will cover material from chapter 1 – 11 from the textbook. The focus of the study will be on learning the structure, nomenclature, occurrence and uses of main classes of organic compounds; functional groups and their interconversion; character of chemical bonding; stereochemistry; structure and reactivity; acid/base reactions, resonance, inductive and steric effects; reaction mechanisms.

TextbookRequired:

Organic Chemistry”, 12th Ed. by Solomons/Fryhle (Wiley). The course will cover topics presented in Ch. 1-11.

Optional:

- 1) Study Guide and Solutions Manual for Organic Chemistry, 12th Ed., Solomons/Fryhle (Wiley)
- 2) A molecular modeling kit for organic chemistry

Lecture Notes and Lectures

The lecture notes will be posted on the course's CANVAS Learn site. You are strongly encouraged read them before viewing the recorded lectures. One hour and 20 minutes of recorded lectures for each day will be uploaded to CANVAS from Monday to Thursday during the semester. Recorded question review sessions will be uploaded to CANVAS on Fridays as describe in the syllabus.

Lecture Review and Exam Review Questions

Review questions covering the topic discussed in the class will be posted on CANVAS for each recorded class. You are strongly encouraged to do the problems before watching next recorded class. Before each exam, an exam review will be posted on CANVAS. Again, you are strongly encouraged to do the exam review and get the help from the professor if needed.

Homework

10 Homework (10 points each) will be posted to the CANVAS. Due dates will be announced through email and/or will be posted at the CANVAS. Problems from the textbook will be assigned but will not be graded. You are strongly encouraged to do the problems to get good marks on exams.

Announcements

Announcements will be either posted at the course CANVAS site and/or distributed by e-mail.

Communicating with your instructor

It is best to reach me through email with any concerns or questions. Response to email is usually within 48 hours on weekdays and by the next business day on weekends.

Additional Support

Additional Support is available through the Chemistry Resource Center (ZOOM) and UNT Student Learning Center.

LockDown Browser

Exams and quizzes must be completed online. LockDown Browser with a webcam is required to take the exams and quizzes. LockDown Browser is like any other browser, the only difference is that LockDown Browser will not let you open additional pages while you are working in Canvas. Please notice that LockDown Browser is not available for Chromebook. Intallation information will be uploaded as separate document into CANVAS.

Exams

Three exams and a final exam will be given for the course. Each exam will consist of multiple-choice questions and will be closed book. The exam will be administered online on CANVAS (more details will be provided in an announcement) during the time window given in the syllabus.

You will be allowed to use the modeling kit while taking exams.

- *Exams, 1-3, are 60 minutes in length (25 - 30 questions) and final exam is 120 minutes in length (50-60 questions).*
- *Be prepared for multiple choice type questions. Some questions may have different point values.*
- *No one is permitted to leave the exam sessions and return during exams.*
- *Only one attempt is given for exam.*
- *Cell phones or electronic devices are not permitted **during exams**.*
- *Cheating will result in a zero. Any talking, notes or textbook, saved equations on calculators, cheat sheets etc. will result in an automatic F for student involved.*
- *There is no talking or asking questions during exams. Hold all questions until exam has concluded.*

Quizzes

Quizzes will be given as an extra credit (50 points total). Quizzes will consist of multiple-choice and will be closed book. The quiz will be administered online on CANVAS (more details and time windows will be provided in an announcement). No make-up quizzes will be allowed.

Grading

Composition of grades:

Exam 1: 100 points

Exam 2: 100 points

Exam 3: 100 points

Final: 200 points

homework: 100 points

Total points: 600 points

Extra credits: 50 points (extra quizzes)

Letter grades: A \geq 90% (540 points), B \geq 80% (480 points), C \geq 70% (420 points), D \geq 60% (360 points), F < 60% (lower than 360 points).

The grade curving will be used if necessary.

Note: Students must report grading errors within five (5) days after the return of the exam.

Grades of (exams, homework, quizzes) will be posted after all students complete the assignment.

Make-Up Exam

If you must miss an exam due to a University-approved absence, please contact the instructor to discuss the needed accommodations. A make-up exam will only be allowed in cases of illness and university approved absence. The instructor must be notified in written by the student prior to the regularly scheduled exam. Failure to do so may result in a grade of zero for the missed exam. The make-up exams will be scheduled for a day/time following the regularly scheduled exams and may have a different format from the original exam. Emergency situations will be handled on an individual basis.

Academic Integrity Standards and Consequences.

According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

Academic dishonesty is not acceptable to UNT. Students caught cheating will receive a "0" for that assignment or exam. In addition, the incident will be reported to the Dean of Students, who may impose further penalty. Academic misconduct includes the following:

- Using another person as a substitute in taking an examination

- Cheating during an examination (This includes talking to another person during an examination)

- Having any notes or textbooks in view during an exam

- Providing false excuses to delay taking an examination

- Having another individual provide answers to submitted problem sets

ADA Accommodation Statement.

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website at disability.unt.edu.

The Chemistry Department believes in reasonably accommodating individuals with disabilities and complies with the university policy established under section 504 of the *Rehabilitation Act of 1973* and the *Americans with Disabilities Act (1990)* to provide for equal access and opportunity. Please communicate with me as to your specific needs so that appropriate arrangements can be made through the department and/or the office of Disability Accommodation (ODA, Room 318A, Union, 565-4323).

Emergency Notification & Procedures.

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to CANVAS for contingency plans for covering course materials.

Important Dates for 8W1 Session

May 11	First Class Day.
May 18	Census.
May 19	Beginning this date a student may drop a course with a grade of W by completing the Request to Drop Class form and submitting it to the Registrar's Office. See link for complete instructions Dropping a Class .
June 2	Last day for change in pass/no pass status.
June 11	Last day for a student to drop a course. Last day to Withdraw (drop all classes). Grades of W are assigned.
June 12	Beginning this date, a student who qualifies may request an Incomplete, with a grade of I with their instructor.
July 2	Last Regular Class Meeting.
July 3	Final Exams.

Tentative Schedule of Topics

<i>Week</i>	<i>Date/s</i>	<i>Chapter/s</i>	<i>Notes</i>	
01	May 11	01	Homework 01 will be posted	
	May 12	01		
	May 13	01		
	May 14	01		
	May 15	Review	Review questions posted between May 11 th – May 15 th	
02	May 18	02	Homework 02 will be posted	
	May 19	02		
	May 20	02 & 03	Homework 03 will be posted	
	May 21	03		
	May 22	Review	Review questions posted between May 18 th – May 22 nd	
Exam 1 window May 23rd to May 26th Chapter 1 & 2				
03	May 25		No class	
	May 26		Last Day to Take exam 01	
	May 27	04	Homework 04 will be posted	
	May 28	04		
	May 29	Review	Review questions posted between May 26 th – May 28 th	
04	June 01	04		
	June 02	04 & 05	Homework 05 will be posted	
	June 03	05		
	June 04	05		
	June 05	Review	Review questions posted between June 01 st – June 05 th	
Exam 2 window June 5th to June 08th Chapter 3, 4 & 5				
05	June 08		Last Day to Take exam 01	
	June 09	06	Homework 06 will be posted	
	June 10	06		
	June 11	06 & 07	Homework 07 will be posted	
	June 12	Review	Review questions posted between June 08 th – June 11 th	
06	June 15	07		
	June 16	07 & 08	Homework 08 will be posted	
	June 17	08		
	June 18	08 & 09	Homework 09 will be posted	
	June 19	Review	Review questions posted between June 15 th – June 19 th	
Exam 3 window June 19th to June 22nd Chapter 6, 7 & 8				
07	June 22		Last Day to Take exam 01	
	June 23	09		
	June 24	09		
	June 25	10	Homework 10 will be posted	
	June 26	Review	Review questions posted between June 22 nd – June 25 th	
08	June 29	10 & 11		
	June 30	11		
	July 01	Review	Review questions posted between June 29 th – July 01 st	
	Final Exam window July 1st to July 03rd Chapter 1 - 11			
	July 03	Final	Last Day to Complete Final Exam	

Studying Organic Chemistry

Contrary to what you may have heard, organic chemistry does not have to be a difficult course. You will learn more in it than in almost any course you will take—and what you learn will have a special relevance to life and the world around you. However, because organic chemistry can be approached in a logical and systematic way, you will find that with the right study habits, mastering organic chemistry can be a deeply satisfying experience.

1. Be prepared before class -
2. Keep up with your work from day to day—never let yourself get behind.
3. Study material in small units and be sure that you understand each new section before you go on to the next.
4. Work all class review questions before the next class.
5. Work all the in-chapter and assigned problems.
6. Write when you study.
7. Learn by teaching and explaining.
8. Use molecular models when you study.

Any class recordings are only for the use of students in this class for educational purposes and should not be shared outside the class.

(Instructor reserves the right to amend this information, as necessary.)