# CHEM 2370 Organic Chemistry I

### **Instructor Contact**

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**Communication Expectations:** The primary tools that will be used to communicate are email and canvas announcements. I will do my best to email as soon as possible or response to email is usually within 24 hours on weekdays and by the next business day on weekends. Also, announcements will be posted on canvas, please check for announcements regularly. Course updates and important notifications will be posted on canvas. Both TA and SI leader will also post some announcement on canvas.

## **Course Description**

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. Also, cover information of the basic organic reactions and synthesis methods. Information from the latest research and teaching ideas will be utilized.

### Course Structure

This course takes place 100% online. We will have a couple synchronous video conferences using Zoom (non-mandatory) throughout the semester. Other than that, your interaction with me and with your fellow students will take place in Canvas. All materials, assignments, quizzes and exams are delivered online on canvas and Sapling Learning. Students are expected to go over the materials/resources posted on canvas and complete given assignments, guizzes and exams.

# Course Prerequisites or Other Restrictions

Student must have taken General Chemistry I and II (CHEM 1410 and CHEM 1420) and earned a grade of C or above.

## **Course Objectives**

Upon successful completion of this course, learners will be able to:

- 1. correlate between properties of functional groups of molecules and intermolecular forces
- 2. identify structures and properties of organic molecules.
- 3. Name (nomenclature of) organic molecules.

- 4. identify, classify, and name the three-dimensional arrangement of atoms and molecules.
- 5. draw the step-by-step processes of a chemical reaction and reaction mechanism.
- 6. plan the synthesis of organic molecule.
- 7. use tools for the identification of functional groups and for the determination of connections between the atoms in molecules.
- 8. Recall reactions of different functional groups.
- 9. Applying basic reactions of functional groups in new reaction designs

## Materials (1 and 2 are required and 3 and 4 are optional)

- 1) Organic Chemistry, by Solomons and Fryle, 12th edition (published by Wiley)
- 2) Sapling Learning (www.saplinglearning.com/login)
- 3) Study Guide and Solutions Manual for Organic Chemistry, 12th Ed., Solomons/Fryhle (Wiley) is helpful, but not required.
- 4) Molecular model kit, which are available at the bookstore or from other sources are helpful, but not required. You may use your molecular during exams.

Such as, Duluth Labs (see link below) may useful during studying but cannot used in exam. https://duluthlabs.com/

## **Technical Requirements & Skills**

### Minimum Technology Requirements

Provide a list of the minimum technology requirements for students, such as:

- Computer with webcam
- Reliable internet access
- **Speakers**
- Microphone
- Plug-ins
- Microsoft Office Suite
- LockDown Browser
- Canvas Technical Requirements (https://clear.unt.edu/supportedtechnologies/canvas/requirements)

## Computer Skills & Digital Literacy

Provide a list of course-specific technical skills learners must have to succeed in the course, such as:

- Using Canvas
- Using email with attachments
- Downloading and installing software
- Using spreadsheet programs
- Using presentation and graphics programs
- Using Sapling Learning

## Rules of Engagement

Rules of engagement refer to the way students are expected to interact with each other and with their instructors online. Here are some general guidelines:

- Treat your instructor and classmates with respect in email or any other communication.
- Always use your professors' proper title: Dr. or Prof., or if in doubt use Mr. or Ms.
- Unless specifically invited, don't refer to your instructor by first name.
- Use clear and concise language.

- Remember that all college level communication should have correct spelling and grammar (this includes discussion boards).
- Avoid slang terms such as "wassup?" and texting abbreviations such as "u" instead of "you."
- Use standard fonts such as Ariel, Calibri or Times new Roman and use a size 10 or 12 point font
- Avoid using the caps lock feature AS IT CAN BE INTERPRETTED AS YELLING.
- Limit and possibly avoid the use of emoticons like :) or ©.
- Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post and your message might be taken seriously or sound offensive.
- Be careful with personal information (both yours and other's).
- Do not send confidential information via e-mail

See these <u>Engagement Guidelines</u> (https://clear.unt.edu/online-communication-tips) for more information.

#### Success in an Online Course

While the online classroom shares many similarities with the face-to-face classroom, success in online education requires certain skills and expectations that as a student you may not be aware of. Follow the study guide in canvas to complete the assignments and study. Refer to below web page to find, "How to Succeed as an Online Student" (https://clear.unt.edu/teaching-resources/online-teaching/succeed-online).

# **Getting Help**

### **Technical Assistance**

Part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

**UIT Help Desk**: http://www.unt.edu/helpdesk/index.htm

Email: helpdesk@unt.edu Phone: 940-565-2324

In Person: Sage Hall, Room 130 Walk-In Availability: 8am-9pm

**Telephone Availability:** 

Sunday: noon-midnight

• Monday-Thursday: 8am-midnight

Friday: 8am-8pmSaturday: 9am-5pmLaptop Checkout: 8am-7pm

For additional support, visit <u>Canvas Technical Help</u> (https://community.canvaslms.com/docs/DOC-10554-4212710328)

#### Student Support Services

UNT provides mental health resources to students to help ensure there are numerous outlets to turn to that wholeheartedly care for and are there for students in need, regardless of the nature of an issue or its severity. Listed below are several resources on campus that can support your academic success and mental well-being:

• <u>Student Health and Wellness Center</u> (https://studentaffairs.unt.edu/student-health-and-wellness-center)

- <u>Counseling and Testing Services</u> (https://studentaffairs.unt.edu/counseling-and-testing-services)
- <u>UNT Care Team</u> (https://studentaffairs.unt.edu/care)
- <u>UNT Psychiatric Services</u> (https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry)
- <u>Individual Counseling</u> (https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling)

### Other student support services offered by UNT include

- Registrar (https://registrar.unt.edu/registration)
- Financial Aid (https://financialaid.unt.edu/)
- Student Legal Services (https://studentaffairs.unt.edu/student-legal-services)
- Career Center (https://studentaffairs.unt.edu/career-center)
- Multicultural Center (https://edo.unt.edu/multicultural-center)
- <u>Counseling and Testing Services</u> (https://studentaffairs.unt.edu/counseling-andtesting-services)
- <u>Pride Alliance</u> (https://edo.unt.edu/pridealliance)
- UNT Food Pantry (https://deanofstudents.unt.edu/resources/food-pantry)

#### **Academic Support Services**

- Academic Resource Center (https://clear.unt.edu/canvas/student-resources)
- Academic Success Center (https://success.unt.edu/asc)
- <u>UNT Libraries</u> (https://library.unt.edu/)
- Writing Lab (http://writingcenter.unt.edu/)
- MathLab (https://math.unt.edu/mathlab)

## Course Requirements

Assignment	Points Possible	Percentage of Final Grade	Bonus points
Sapling homework (10 Quizzes, 10 points each)	150	15%	4 quizzes will be given for 50
Discussion (5 Discussions, 20 points each)	100	10%	bonus points.
Exams (three Exams, 200 points each) (The lowest of three exams will be replaced by higher final exam points in the 150-point scale)*	450	45%	
Final Exam	300	30%	
Total Points Possible	1000 points	100%	

<sup>\*</sup> This replacement will take if students score higher points for final exam (in 150-point scale) than any of three mid-term exams. Otherwise, no exam point replacement.

## Grading

Include the grading scale (A-F) along with the point totals/percentages you will use to calculate the final grade. For example:

- ➤ **A = 900-1000** (90-100%: Outstanding, excellent work. The student performs well above the minimum criteria.)
- **B = 800-899** (80-89%: Good, impressive work. The student performs above the minimum criteria.)
- ➤ **C = 700-799** (70-79%: Solid, college-level work. The student meets the criteria of the assignment.)

- ➤ **D = 600-699** (60-69%: Below average work. The student fails to meet the minimum criteria.)
- ➤ **F = 500-599** (59% and below: Sub-par work. The student fails to complete the assignment.)

### Exam

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 using lockdown browser and webcam during the time window given in the syllabus.

- Exams 1–3 will emphasize the most recently covered materials.
- Final Exam will cover Chapter 1-11 in the textbook.
- You will be allowed to use the modeling kit while taking exams.
- Exams, 1-3, are 50 minutes in length (25 questions)
- final exam is 2 hours in length (55 questions).
- Be prepared for multiple choice questions. Some questions may have different point values.

# Class review and practice exam questions

For each lecture recording, review questions covering the topic discussed in the class will be posted on CANVAS. You are strongly encouraged to do the problems before listing to next recording. Answer key will be posted in canvas and recorded answers will be posted for some class review questions. Before the exam, an exam review will be posted on CANVAS. Again, you are strongly encouraged to do the practice exam and get the help from the professor or super TA if needed.

#### Homework

Sapling Learning will be used for homework assignment. Assignments and due dates will be announced through email and/or will be posted at the course CANVAS site. Follow the link <a href="Sapling Learning">Sapling Learning</a> (www.saplinglearning.com/login) to create your sapling account for this course.

# Bonus quizzes

Four quizzes will be given for 50 bonus points.

### Course Evaluation

Student Perceptions of Teaching (SPOT) is the student evaluation system for UNT and allows students the ability to confidentially provide constructive feedback to their instructor and department to improve the quality of student experiences in the course.

### **Course Policies**

## **Assignment Policy**

Students are expected to submit assignments on time. All assignments, quizzes and exams have due dates, and they can be found on canvas, please make sure you keep track of the due dates. Friendly reminders will be sent but remember it is your responsibility to keep the dates.

In the event of technological technical difficulty students should immediately report any problems to the instructor and contact the UNT Student Help Desk: <a href="mailto:helpdesk@unt.edu">helpdesk@unt.edu</a> or 940.565.2324 and obtain a ticket number. There will be no acceptance of late assignments, unless there is a remedy ticket number from the UNT helpdesk.

### **Examination Policy**

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. Intallation information will be uploaded as separate document into CANVAS.

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.

#### Exam rules:

- 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, showing answer to another student or looking at another student answer sheet etc. will result in an automatic F for all students involved.
- There is no talking or asking questions during exams. Hold all questions until exam has concluded.

### Instructor Responsibilities and Feedback

- Announcements will be posted at the course CANVAS site and/or distributed by email.
- It is best to reach me through email with any concerns or questions. I will response as soon as possible or response to email is usually within 24 hours on weekdays and by the next business day on weekends.

#### Late Work

No late work will be accepted.

## Attendance Policy

It would be difficult to catch up if you miss one or more lectures. Regular participation in class activity is required as stated in the study guide. Visit the <u>University of North Texas' Attendance Policy</u> (http://policy.unt.edu/policy/15-2-) to learn more.

## Syllabus Change Policy

This syllabus is a guide, but not a contract. You will be notified during the course if substantial changes are made to the test schedule, grading scheme, or other components.

# **UNT Policies**

### Academic Integrity Policy

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. [Insert specific sanction or academic penalty for specific academic integrity violation.]

### **ADA Policy**

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time, however, ODA notices of reasonable 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 reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the Office of Disability Access website at http://www.unt.edu/oda. You may also contact ODA by phone at (940) 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 Blackboard for contingency plans for covering course materials.

#### Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Blackboard online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

### Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's Code of Student Conduct (https://deanofstudents.unt.edu/conduct) to learn more.

## Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: <a href="my.unt.edu">my.unt.edu</a>. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail Eagle Connect (https://it.unt.edu/eagleconnect).

#### Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 [insert administration dates] of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the SPOT website (http://spot.unt.edu/) or email spot@unt.edu.

#### Sexual Assault Prevention

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at <a href="SurvivorAdvocate@unt.edu">SurvivorAdvocate@unt.edu</a> or by calling the Dean of Students Office at 940-565- 2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at <a href="Oeo@unt.edu">Oeo@unt.edu</a> or at (940) 565 2759.

### Important Notice for F-1 Students taking Distance Education Courses

#### **Federal Regulation**

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the <u>Electronic Code of Federal Regulations website</u> (http://www.ecfr.gov/). The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

#### **University of North Texas Compliance**

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking

an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

- (1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
- (2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email <a href="mailto:internationaladvising@unt.edu">internationaladvising@unt.edu</a>) to get clarification before the one-week deadline.

Student Verification

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses.

See <u>UNT Policy 07-002 Student Identity Verification</u>, <u>Privacy</u>, <u>and Notification and Distance Education Courses</u> (https://policy.unt.edu/policy/07-002).

Use of Student Work

A student owns the copyright for all work (e.g. software, photographs, reports, presentations, and email postings) he or she creates within a class and the University is not entitled to use any student work without the student's permission unless all of the following criteria are met:

- The work is used only once.
- The work is not used in its entirety.
- Use of the work does not affect any potential profits from the work.
- The student is not identified.
- The work is identified as student work.

If the use of the work does not meet all of the above criteria, then the University office or department using the work must obtain the student's written permission. Download the UNT System Permission. Waiver and Release Form

#### Transmission and Recording of Student Images in Electronically-Delivered Courses

- 1. No permission is needed from a student for his or her image or voice to be transmitted live via videoconference or streaming media, but all students should be informed when courses are to be conducted using either method of delivery.
- In the event an instructor records student presentations, he or she must obtain
  permission from the student using a signed release in order to use the recording for
  future classes in accordance with the Use of Student-Created Work guidelines
  above.
- 3. Instructors who video-record their class lectures with the intention of re-using some or all of recordings for future class offerings must notify students on the course syllabus if students' images may appear on video. Instructors are also advised to provide accommodation for students who do not wish to appear in class recordings.

Example: This course employs lecture capture technology to record class sessions. Students may occasionally appear on video. The lecture recordings will be available to you for study purposes and may also be reused in future course offerings.

No notification is needed if only audio and slide capture is used or if the video only records the instructor's image. However, the instructor is encouraged to let students know the recordings will be available to them for study purposes.

# **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.

## Study guide

Week	Date/s	Chapter/s	Notes	
01	May 10	01- part 1		
	May 11	01- part 2	Practice quiz (chapter 01)	
	May 12	01- part 3	Discussion 1 due	
	May 13	01- review		
	May 14	02 - part 1	Homework 1 due	
02	May 17	02 - part 2	Bonus quiz 1 (chapter 01)	
	May 18	02 - review		
	May 19	03 - part 1		
	May 20	03 - part 2	Homework 2 due	
	May 21	03-review		
Exam 1 window   May 22 <sup>nd</sup> to May 24 <sup>th</sup>   Chapter 1 & 2				
03	May 24		Last Day to Take exam 01	
	May 25	04 - part 1	Discussion 2 due	
	May 26	04 - part 2		
	May 27	04 - part 3	Homework 3 due	
	May 28	04 - review	Bonus quiz 2 (chapter 03)	
04	May 31			
	June 01	05 - part 1	Homework 4 due	
	June 02	05 - part 2	Discussion 3 due	
	June 03	05 - review		
	June 04		Homework 5 due	

	Exam 2 window   June 4th to June 06th   Chapter 3, 4 & 5				
05	June 06	Sunday	Last Day to Take exam 02		
	June 07	06 - part 1			
	June 08	06 - part 2			
	June 09	06 - review			
	June 10	07 - part 1	Homework 6 due		
	June 11	07 - part 2	Bonus quiz 3 (Chapter 06)		
06	June 14	07 - review			
	June 15	08 - part 1	Homework 7 due		
	June 16	08 - part 2	Discussion 4 due		
	June 17	08 - review			
	June 18	09 - part 1	Homework 8 due		
Exam 3 window   June 19th to June 21st   Chapter 6, 7 & 8					
07	June 21		Last Day to Take exam 03		
	June 22	09 - part 2			
	June 23	09 - part 3	Discussion 5 due		
	June 24	09 - review			
	June 25	10 & review	Homework 9 due		
08	June 28	11 & review	Bonus quiz 4 (Chapter 09)		
	June 29	Final review			
	June 30		Homework 10 due		
	July 01				
	Final Exam window   July 02 <sup>nd</sup>   Chapter 1 - 11				
	July 02	Final	Last Day to Complete Final Exam		